

APPENDIX B
GEOPHYSICAL SURVEY REPORT

**GEOPHYSICAL SURVEY
250 WATER STREET
MANHATTAN, NEW YORK**

Prepared for:

Langan
21 Penn Plaza
360 West 31st Street, 8th Floor
New York, New York 10001-2727

Prepared by:

Hager-Richter Geoscience, Inc.
846 Main Street
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File 20AM08
June 2020

HAGER-RICHTER GEOSCIENCE, INC.

GEOPHYSICS FOR THE ENGINEERING COMMUNITY
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June 25, 2020
File 20AM08

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RE: Geophysical Survey
250 Water Street
Manhattan, New York

Dear Mr. Yanowitz:

In this report, we summarize the results of a geophysical survey conducted in June 2020 by Hager-Richter Geoscience, Inc., dba HR Geological Services in New York (HRGS), at 250 Water Street in Manhattan, New York for Langan. The scope of the project and area of interest were specified by Langan.

INTRODUCTION

The site is located at 250 Water Street (Block 98, Lot 1) in Manhattan, New York as shown on Figure 1. The site is bounded by Pearl Street to the North, Peck Slip to the East, Water Street to the South and Beekman Street to the West. Langan specified the area of interest (AOI) as the entire city block. The AOI comprises an active parking lot and adjacent sidewalks and is approximately 48,000 square feet in size. The site was formerly occupied by a thermometer factory and several other buildings that were demolished and paved over several decades ago. A portion of the site, located south of the entry gates, has developed a surface depression.

Langan requested a geophysical survey to determine whether sub-surface features such as underground storage tanks (USTs), utilities, former foundations, and voids are present in the accessible portions of the site. Langan was also interested in determining whether utilities were present at the proposed locations of 36 borings at the site.

OBJECTIVE

The objective of the geophysical survey was to detect, and if detected, to locate sub-surface features such as USTs, utilities, foundations and voids in the accessible portions of the AOI, and to clear utilities in the vicinity of 36 proposed boring locations.

THE SURVEY

Amanda Fabian, P.G., Alexis Martinez and Ariana Martinez, conducted the field operations on June 15 and 16, 2020. The project was coordinated with Mr. Joseph Yanowitz of Langan. Mr. Thomas Schiefer, also of Langan, specified the AOI and was present on site during the survey. Photos 1 and 2 show general site conditions within the parking lot.



Photo 1. General site conditions; looking northwest



Photo 2. Surface depression in western portion of site

The geophysical survey was conducted using three complementary geophysical methods: time domain electromagnetic induction (EM61), ground penetrating radar (GPR), and precision utility location (PUL). The EM61 data were acquired at approximately 8-inch intervals along lines spaced 5 feet apart in the accessible portions of the AOI. The EM survey detects and outlines areas containing buried metal. However, the EM method cannot provide information on the type of objects causing EM anomalies.

In order to aid in the identification of the objects, GPR data were acquired in two mutually perpendicular directions and spaced no more than 2 feet apart in one direction and 5 feet apart in a perpendicular direction across the accessible portions of the site. The GPR method is useful for detecting both metallic and non-metallic subsurface objects. The two-foot spacing was adequate to detect voids with a horizontal dimension of at least two feet with a high degree of confidence within the effective depth of GPR signal penetration.

The PUL system was used for tracking utilities in the AOI by connecting the transmitter to conductive surface features such as light poles, valves, and hydrants and by scanning the AOI for the presence of live electric lines.

EQUIPMENT AND PROCEDURES

EM61. For the EM61 survey, we used a Geonics EM61-MK2 time domain electromagnetic induction metal detector. The EM61 is a time-domain electromagnetic induction type instrument designed specifically for detecting buried metal objects. An air-cored 1-meter by ½-meter transmitter coil generates a pulsed primary magnetic field in the earth, thereby inducing eddy currents in nearby metal objects. The decay of the eddy current produces a secondary magnetic field that is sensed by two receiver coils, one coincident with the transmitter and one positioned 40 cm above the main coil. By measuring the secondary magnetic field after the current in the ground has dissipated but before the current in metal objects has dissipated, the instrument responds only to the secondary magnetic field produced by metal objects. Four channels of secondary response are measured in mV and are recorded on a digital data logger. The system is generally operated by pushing the coils as a wagon with an odometer mounted on the axle to trigger the data logger automatically at approximately 8-inch intervals.

GPR. The GPR survey was conducted using a Geophysical Survey Systems, Inc. UtilityScan HS system using a Hyper Stacking antenna with central frequency of 350 MHz and a 100 ns time window. The system includes a survey wheel that triggers the recording of the data at fixed intervals, thereby increasing the accuracy of the locations of features detected along the survey lines.

GPR uses a high-frequency electromagnetic pulse (referred to herein as “radar signal”) transmitted from a radar antenna to probe the subsurface. The transmitted radar signals are reflected from subsurface interfaces of materials with contrasting electrical properties. The travel times of the radar signal can be converted to approximate depth below the surface by correlation with targets of known depths, including stratigraphic horizons, pipes, cables, and other utilities, or by using handbook values of velocities for the materials in the subsurface. The acquisition of GPR data was monitored in the field on a graphic recorder and the real time images were immediately available for field use. The GPR data were also recorded digitally for subsequent processing. Interpretation of the records is based on the nature and intensity of the reflected signals and on the resulting patterns.

PUL. The PUL survey was conducted using a precision electromagnetic pipe and cable locator, Radiodetection RD7000 series. The RD7000 series consists of separate transmitter and receiver. The system can be used in "passive" and "active" modes to locate buried pipes by detecting electromagnetic signals carried by the pipes. In the "passive" mode, only the receiver unit is used to detect signals carried by the pipe from nearby power lines, live signals transmitted along underground power cables, or very low frequency radio signals resulting from long wave radio transmissions that flow along buried conductors. In the "active" mode of operation, the transmitter is used to induce a signal on a target pipe, and the receiver is used to trace the signal along the length of the pipe. Our system uses a 10W transmitter.

LIMITATIONS OF THE METHODS

HAGER-RICHTER GEOSCIENCE, INC. MAKES NO GUARANTEE THAT ALL SUBSURFACE TARGETS OF INTEREST WERE DETECTED IN THIS SURVEY. HAGER-RICHTER GEOSCIENCE, INC. IS NOT RESPONSIBLE FOR DETECTING SUBSURFACE TARGETS THAT NORMALLY CANNOT BE DETECTED BY THE METHODS EMPLOYED OR THAT CANNOT BE DETECTED BECAUSE OF SITE CONDITIONS. GPR SIGNAL PENETRATION MAY NOT BE DEEP ENOUGH TO DETECT SOME TARGETS. HAGER-RICHTER GEOSCIENCE, INC. IS NOT RESPONSIBLE FOR MAINTAINING FIELD MARKOUTS AFTER LEAVING THE WORK AREA. THE CLIENT UNDERSTANDS THAT MARK-OUTS MADE DURING INCLEMENT WEATHER OR IN AREAS OF HIGH PEDESTRIAN OR VEHICULAR TRAFFIC MAY NOT LAST.

Field mark-outs. Utilities detected by the geophysical methods at the time of the survey are marked in the field, and the operator makes every attempt, field conditions permitting, to detect and mark as many utilities as possible at the time of survey. Adverse weather and site conditions (rain, snow, snow and soil piles, uneven surfaces, high traffic, etc.) can hamper in-field interpretation. Utility mark-outs made on wet pavement, snow, snow piles, gravel surfaces, or in active construction zones may not last. HRGS is not responsible for maintaining utility mark-outs after leaving the work area.

EM61. All electromagnetic geophysical methods, including the EM method used here, are affected by the presence of power lines and surface metal objects (steel sided buildings, dumpsters, vehicles, railroad tracks, reinforced concrete, etc.). Where such are present, the effects of materials in the subsurface may be masked, and firm conclusions about subsurface conditions cannot be made.

Detection and identification should be clearly differentiated. Detection is the recognition of the presence of a metal object, and the electromagnetic method is excellent for such purposes. Identification, on the other hand, is determination of the nature of the causative body (i.e., what is the body -- utilities, foundations, automobiles, white goods, etc.?). Although the EM61 data cannot be used to identify buried metal objects, they provide excellent guides to the identification of some objects. For example, buried metal utilities produce anomalies with lengths many times their widths.

GPR. There are limitations of the GPR technique as used to detect and/or locate targets such as those of the objectives of this survey: (1) surface conditions, (2) electrical conductivity of the ground, (3) contrast of the electrical properties of the target and the surrounding soil, and (4) spacing of the traverses. Of these restrictions, only the last is controllable by us.

The condition of the ground surface can affect the quality of the GPR data and the depth of penetration of the GPR signal. Sites covered with snow piles, high grass, bushes, landscape structures, debris, obstacles, soil mounds, etc. limit the survey access and the coupling of the GPR antenna with the ground. In many cases, the GPR signal will not penetrate below concrete pavement, especially inside buildings, and a target may not be detectable. The GPR method also commonly does not provide useful data under canopies found at some facilities. GPR surveys inside buildings may be severely constrained by space limitations and interference from above-grade structures.

The electrical conductivity of the ground determines the attenuation of the GPR signals, and thereby limits the maximum depth of exploration. For example, the GPR signal does not penetrate clay-rich soils, and targets buried in clay might not be detected.

A definite contrast in the electrical conductivities of the surrounding ground and the target material is required to obtain a reflection of the GPR signal. If the contrast is too small, possibly due to construction details or deeply corroded metal in the target, then the reflection may be too weak to recognize, and the target can be missed. In many cases, plastic, clay, asbestos concrete (transite), brick-lined, stone-lined, and other non-metallic utilities cannot be detected.

Spacing of the traverses is limited by access at many sites, but where flexibility of traverse spacing is possible, the spacing is adjusted to the size of the target. The GPR operator controls the spacing between lines, and the design of the survey is based on the dimensions of the smallest feature of interest. Targets with dimensions smaller than the spacing between GPR survey lines can be missed.

PUL. The PUL equipment cannot detect non-metallic utilities, such as pipes constructed of vitrified clay, transite, plastic, PVC, fiberglass, and unreinforced concrete, when used in passive mode alone. Such pipes can be detected if a wire tracer is installed with access to such tracer for transmission of a signal or where access (such as floor drains and clean-outs) permits insertion of a device on which a signal can be transmitted.

In some, but not all, cases, the subsurface utility designation equipment cannot detect metal utilities reliably under reinforced concrete because the signal couples onto the metal reinforcing in the concrete. Similarly, the method commonly cannot be used adjacent to grounded metal structures such as chain link fences and metal guardrails.

In congested areas, where several utilities are bundled or located within a short distance, the signal transmitted on one utility can couple onto adjacent utilities, and the accuracy of the location indicated by the instrument decreases.

RESULTS

The geophysical survey was conducted using EM61, GPR and PUL methods across the accessible portions of the specified AOI. Figure 2 is a color contour plot of the EM61 survey, and Figure 3 shows the locations of the GPR traverses, the approximate location of the former structures, and an integrated interpretation of the geophysical data.

In addition to the site-wide survey, a more detailed GPR survey was conducted in the vicinity of 36 proposed boring locations within the limits of the site to detect subsurface utilities or other buried structures prior to drilling activities. The features detected with the GPR and PUL in the vicinity of the proposed boring locations were marked in the field at the time of the survey. We note that after the office data review of the GPR data, numerous utilities and other subsurface objects were detected that were not marked in the field at the time of the survey.

EM61. Interpretation of EM data is based on the relative response of the instrument in millivolts to local conditions. The instrument is not calibrated to provide an absolute measure of a particular property, such as the conductivity of the soil or the strength of the earth's magnetic field. Subsurface metal objects produce sharply defined positive anomalies when the EM61 is positioned directly over them. Acquiring data at short intervals along closely spaced lines, as was done at the subject site, provides high spatial resolution of the location and footprint of the targets. Thus, buried metal is recognized in contour plots of EM data by positive anomalies roughly corresponding to the dimensions of the buried metal.

Several high amplitude EM anomalies are evident in Figure 2. Surface metal objects typically produce high amplitude EM anomalies, and those EM anomalies attributed to the effects of surface metal structures such as the parking attendant booth, the fence, reinforced concrete pads, etc. are indicated as such in Figure 3. We note that the presence or absence of subsurface metal in such areas cannot be determined based on the EM data alone due to the anomaly caused by the surface metal object.

Many low to high amplitude anomalies with an EM response >100 mV, not associated with surface metal, are present throughout the site indicating the widespread presence of metal objects in the subsurface. We note that the 100-mV threshold was selected for this specific site based on the high background EM levels. In urban sites with fill such as the subject site, the threshold is typically higher than for undeveloped areas due to fill and other metal object present at the surface and subsurface at urban sites. These anomalies are attributed to buried metal and are shown as red hatched areas on Figure 3. The GPR records for such locations were carefully examined to determine the cause. Several low amplitude linear EM61 anomalies were detected and are attributed to possible metallic utilities. The EM detected utilities were also detected by the GPR and/or PUL methods.

GPR. General. The locations of the GPR traverses and the integrated interpretation of the geophysical data are shown in Figure 3. Apparent GPR signal penetration was variable, with reflections received for about 25-45 nanoseconds. Based on velocity matching calibrations made for the area of interest, the GPR signal penetration is estimated to have been about 3-6 feet.

Subsurface Structures. GPR reflections typical for possible USTs were observed in the GPR records for the Site. Five possible USTs were detected, four of which were located under a portion of reinforced concrete pad near the fence along Peck Slip. The report for a previous geophysical survey at the site, conducted in 2015 by others, indicated the presence of a single tank at the same location. An additional UST was detected in the southwest portion of the site, but we note that there is no EM anomaly that coincides with the location of this possible UST and we therefore must conclude that this US is not of metal construction.

Numerous irregular reflections typical for widespread debris were present throughout the site making the GPR interpretation challenging by possibly obscuring potentially regularly shaped, deeper GPR reflections for former building foundations.

The GPR records exhibit linear reflections typical of utilities or former walls. Some of the alignments detected with the GPR in the parking lot coincide with walls from formers structures, and their location are shown with orange dashed lines on Figure 3. GPR reflections consistent with those expected for buried manhole covers were also identified. The GPR records corroborated the presence of steel in the concrete pads located at the entry on Pearl Street and along the fence adjacent to Peck Slip.

Whether buried structures such as USTs, utilities, foundations walls, etc. occur at a depth greater than the effective depth of investigation of the GPR (about 3-6 feet) or in areas inaccessible to the geophysical survey cannot be determined from the geophysical data.

Voids. The typical signature of air- or water-filled voids below an asphalt surface is a distinctive high-amplitude GPR reflection from the bottom of the pavement. The high-amplitude GPR reflection is due to the large contrast in dielectric properties between the pavement and the air gap. Moderate amplitude GPR reflections are interpreted to be caused by either thin air- or water filled voids, or poor coupling between the pavement and the soils below. Where good contact between the pavement and soils is present, there is typically no strong GPR reflector present.

Moderate- to high-amplitude GPR reflectors, indicating the presence of possible air-filled voids, were detected at several locations, primarily in the western portion of the site. Although possible voids were detected in the north-central portion of the parking lot, most of the possible voids were detected in and around the sunken section of the lot, including two small areas on the Water Street sidewalk. The locations of possible voids are shown in Figure 3.

PUL. The PUL transmitter was attached to conduits located in and on the perimeter of the site such as light poles and fire hydrants, etc. We also conducted a PUL survey in “passive” mode to detect signals carried by utilities from nearby power lines. Several Electric utilities were detected in the parking lot and on the Pearl Street, Peck Slip and Beekman Street sidewalks. The locations of utilities detected by the PUL method were marked in the field at the time of the survey and are shown in Figure 3.

CONCLUSIONS

The geophysical survey was completed using a wide range of surveying techniques and instruments (EM61, GPR, and PUL) to identify significant subsurface anomalies. The EM survey can detect the presence of a metal object; however, it cannot be used to identify what the object is. The GPR survey is conducted over the same areas to identify reflections that may be typical of significant subsurface anomalies. The PUL is used to locate subsurface utility lines. The results of the EM, GPR, and PUL surveys are compared with each other in order to identify significant subsurface anomalies. Based on the geophysical survey performed by Hager-Richter Geoscience, Inc. at 250 Water Street, in New York, New York, we conclude the following significant subsurface anomalies were identified:

- Four possible USTs under a portion of reinforced concrete pad near the fence along Peck Slip
- One possible USTs near the corner of Beekman Street and Water Street
- Several possible utilities in the parking lot and in the adjacent sidewalks.

Additional findings:

- Multiple areas of moderate to high amplitude GPR reflectors, possibly indicating the presence of air-filled voids, were detected within the parking lot and on the Water Street sidewalk
- Multiple areas of low to high amplitude EM results (>100 mV) were detected in the parking lot attributed to buried metal
- Several possible buried manhole covers were detected in the parking lot
- Possible former building foundation walls

Whether buried structures such as USTs, utilities, foundations, etc. occur at a depth greater than the effective depth of investigation of the GPR (about 3-6 feet) or in areas inaccessible to the geophysical survey cannot be determined from the geophysical data.

LIMITATIONS ON USE OF THE REPORT

This letter report was prepared for the exclusive use of Langan Engineering & Environmental Services and its client (collectively, Client). No other party shall be entitled to rely on this Report, or any information, documents, records, data, interpretations, advice, or opinions given

to the Client by Hager-Richter Geoscience, Inc. (HRGS) in the performance of its work. The Report relates solely to the specific project for which HRGS has been retained and shall not be used or relied upon by the Client or any third party for any variation or extension of this project, any other project or any other purpose without the express written permission of HRGS. Any unpermitted use by the Client or any third party shall be at the Client's or such third party's own risk and without any liability to HRGS.

HRGS has used reasonable care, skill, competence, and judgment in the performance of its services for this project consistent with professional standards for those providing similar services at the same time, in the same locale, and under like circumstances. Unless otherwise stated, the work performed by HRGS should be understood to be exploratory and interpretational in character and any results, findings or recommendations contained in this Report or resulting from the work proposed may include decisions which are judgmental in nature and not necessarily based solely on pure science or engineering. It should be noted that our conclusions might be modified if subsurface conditions were better delineated with additional subsurface exploration including, but not limited to, test pits, soil borings with collection of soil and water samples, and laboratory testing.

Except as expressly provided in this limitations section, HRGS makes no other representation or warranty of any kind whatsoever, oral or written, expressed or implied; and all implied warranties of merchantability and fitness for a particular purpose, are hereby disclaimed.

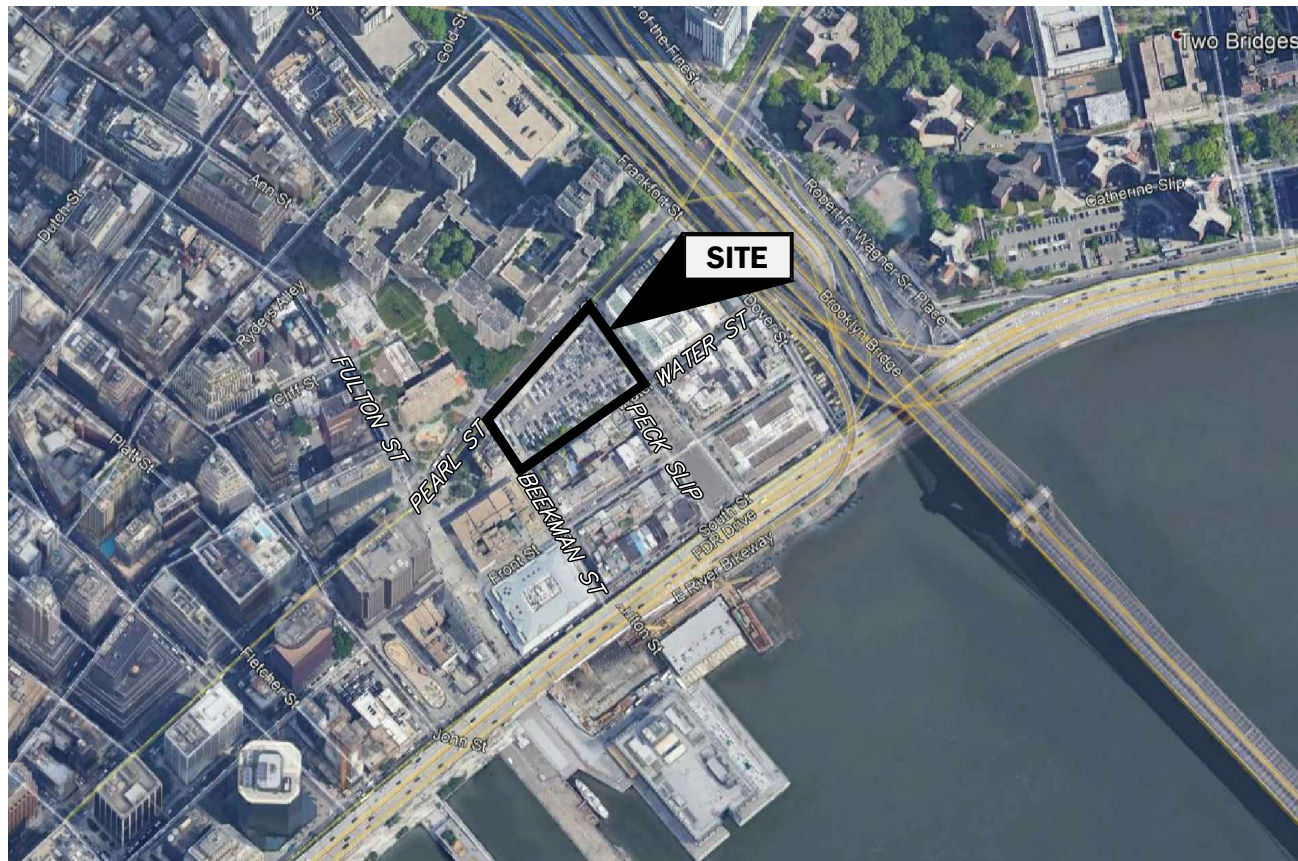
If you have any questions or comments on this letter report, please contact us at your convenience. It has been a pleasure to work with Langan on this project. We look forward to working with you again in the future.

Sincerely yours,
Hager-Richter GEOSCIENCE, INC.



José Carlos Cambero Calzada, P.G. (NY 000899)
Senior Geophysicist

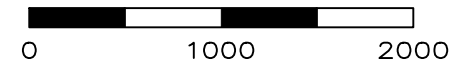
Attachments: Figures 1 - 3



N



APPROXIMATE SCALE (feet)



LOCATION

NOTE:

Modified from Google Earth Pro aerial photograph.

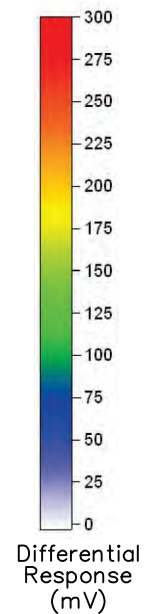
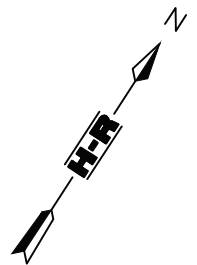
* DBA HR Geological
Services in New York

Figure 1
General Site Location
250 Water Street
Manhattan, New York

File 20AM08

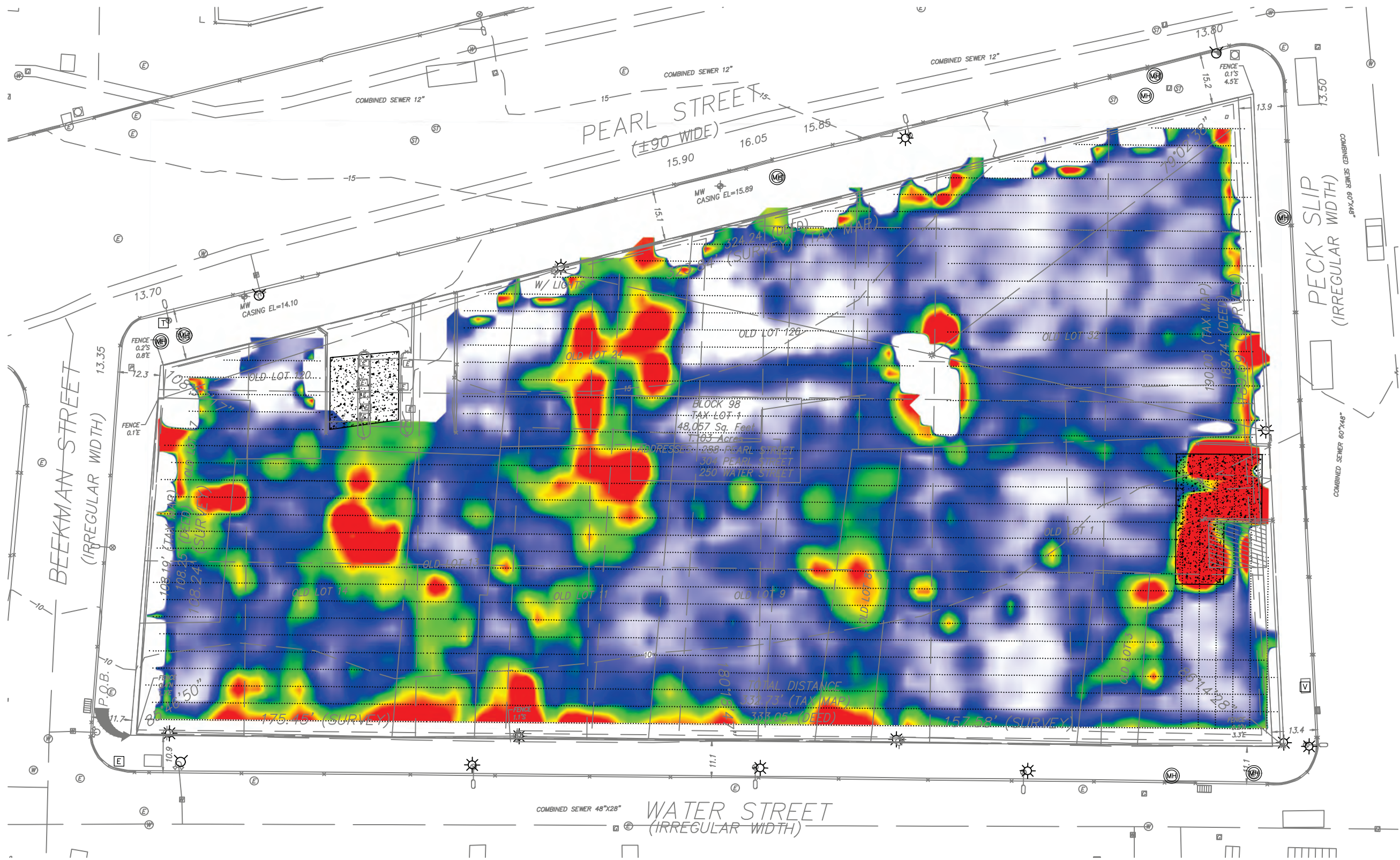
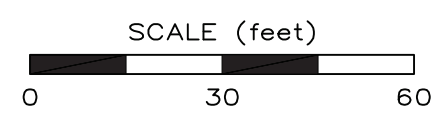
June, 2020

HAGER-RICHTER*
Salem, NH | Fords, NJ



LEGEND

- DATA STATIONS
- ELECTRIC VAULT
- LIGHT POLE
- HYDRANT
- MANHOLE
- VAULT
- SIGN
- TRAFFIC LIGHT
- REINFORCE CONCRETE



NOTES:



















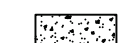

1. Modified from site plan provided by LANGAN, identified as, Figure 6 – AOC and BLP.dwg.
2. Data were acquired with Geonics EM61-MK2. Differential response shown.
3. Differential response equals top coil response – bottom coil response.

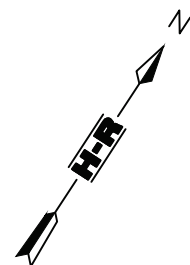
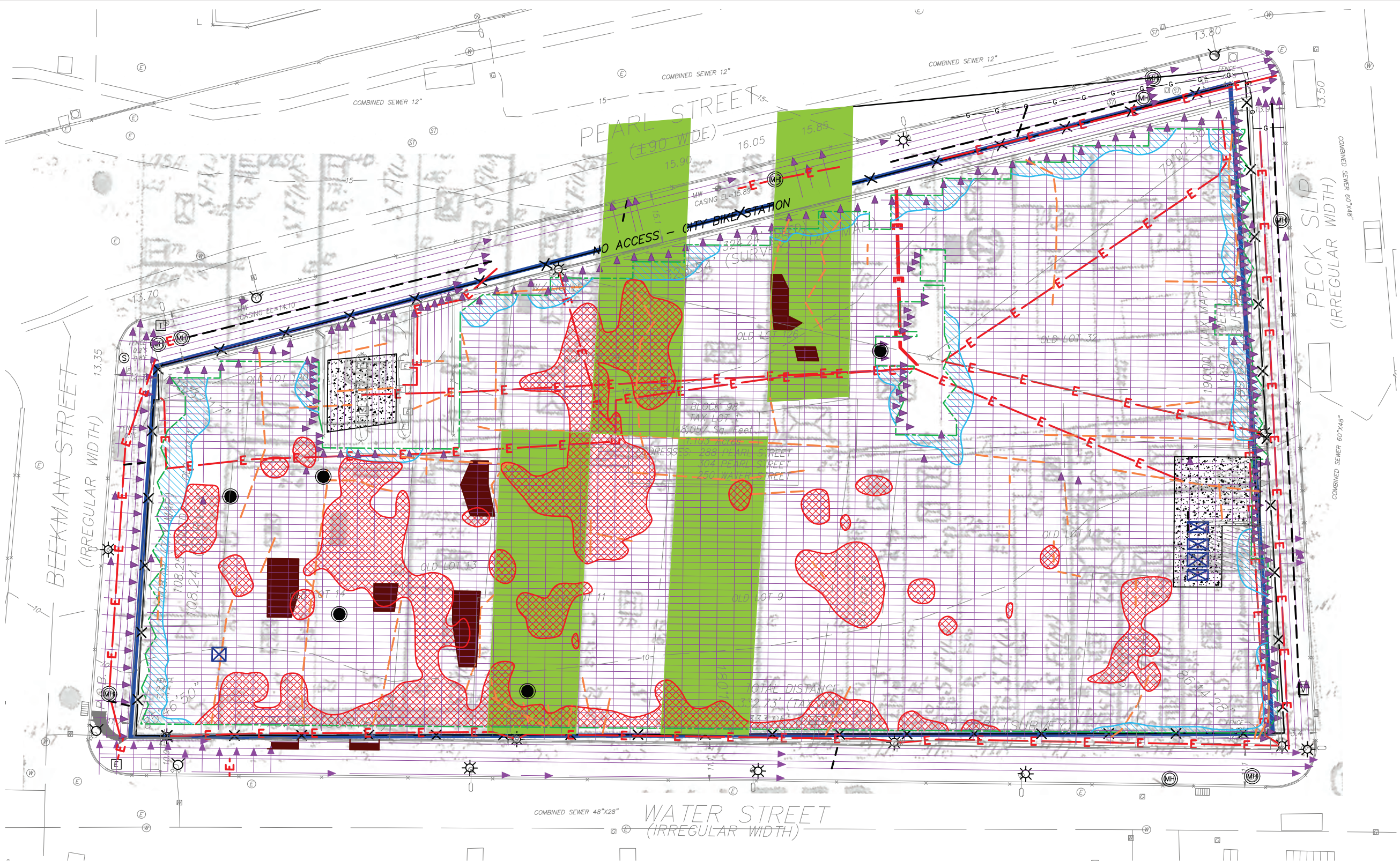
* DBA HR Geological Services in New York

Figure 2
EM Survey
250 Water Street
Manhattan, New York

File 20AM08	June, 2020
HAGER-RIECHTER*	
Salem, NH Fords, NJ	

LEGEND

-  APPROXIMATE LIMITS OF EM SURVEY AREA
-  GPR TRAVERSE
-  AREAS OF EM RESPONSE >100 mV NOT ATTRIBUTED TO SURFACE METAL
-  AREA OF POSSIBLE VOID
-  POSSIBLE UST
-  ELECTRIC LINE
-  GAS LINE — MARKED BY OTHERS
-  POSSIBLE UTILITY
-  POSSIBLE FORMER FOUNDATION WALL
-  POSSIBLE BURIED MANHOLE COVER
-  EM ANOMALY ATTRIBUTED TO EFFECTS OF SURFACE OBJECTS. THE PRESENCE OR ABSENCE OF BURIED METAL WITHIN THIS AREA CANNOT BE DETERMINED ON THE BASIS OF THE EM61 DATA ALONE.
-  ELECTRIC VAULT
-  LIGHT POLE
-  HYDRANT
-  MANHOLE
-  VAULT
-  SIGN
-  TRAFFIC LIGHT
-  REINFORCE CONCRETE
-  APPROXIMATE EXTENT OF HISTORICAL THERMOMETER FACTORY/WORKSHOPS FROM PDF PROVIDED BY LANGAN, IDENTIFIED AS FIGURE 7 — HISTORICAL 1923 SANBORN MAP



NOTE:

Modified from site plan provided by LANGAN, identified as, Figure 6 — AOC and BLP.dwg.

* DBA HR Geological Services in New York

Figure 3
GPR Survey &
Integrated Interpretation
250 Water Street
Manhattan, New York

File 20AM08

June, 2020

HAGER-RICHTER*
Salem, NH | Fords, NJ


APPENDIX C
SOIL BORING LOGS

LANGAN.COM\DATA\Y\DATA2\170381202\PROJECT DATA\ DISCIPLINE\ENVIRONMENTAL\GINTLOGS\170381202 ENTERPRISE LH UPDATED TM GPJ ... 1/25/2021 8:41:21 AM ... Report: Log - LANGAN

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Tier 2 Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr. resist BL/in	Jerome (ug/m ³)	XRF (ppm)		
		Concrete		0								Collected SB11_0-2.
		R1A (10"-30"): Grey to reddish brown medium SAND, some fine gravel, some fine sand, brick, concrete (dry) [FILL]	1.4	1	R1	MACROCORE	30/48		0.00	<LOD		
			0.0	2					0.00	<LOD		
			0.0	3								
			0.0	4								
		R2A (0"-26"): Grey to reddish brown medium SAND, some fine gravel, some fine sand, brick, concrete, wood (moist) [FILL]	0.0	5	R2	MACROCORE	48/48		0.00	<LOD	Collected SB11_6-8.	
			0.0	6					0.00	<LOD		
			0.0	7								
			0.0	8					0.00	<LOD		
		R3A (12"-48"): Brown to grey fine SAND, some silt, trace medium sand, peat (wet) [SM]	0.0	9	R3	MACROCORE	36/48		0.00	<LOD		
			0.0	10								
			0.0	11								
			0.0	12								
		R4A (0"-48"): Grey to dark grey fine SAND, some silt, trace clay, peat (wet) [SM]	0.0	13	R4	MACROCORE	48/48		0.00	<LOD	Collected SB11_18-20. End of boring at 20 feet below grade surface (bgs). Borehole backfilled with soil cuttings to 15 feet bgs. Installed monitoring well MW11 in borehole to 15 feet bgs with screen between 5 and 15 feet bgs.	
			0.0	14					0.00	<LOD		
			0.0	15								
			0.0	16					0.00	<LOD		
		R5A (0"-48"): Brown to grey fine SAND, some silt, trace medium sand (wet) [SP]	0.0	17	R5	MACROCORE	48/48		0.00	<LOD		
			0.0	18					0.00	<LOD		
			0.0	19								
	0.0		20	0.00					<LOD			

Project						Project No.								
250 Water Street						170381202								
Location						Elevation and Datum								
250 Water Street						N/A								
Drilling Company						Date Started			Date Finished					
AARCO Environmental Services, Corp.						8/20/20			8/20/20					
Drilling Equipment						Completion Depth			Rock Depth					
Geoprobe 7822 DT						20 ft			N/A					
Size and Type of Bit						Number of Samples		Disturbed		Undisturbed		Core		
2-inch diameter closed point macro core								5		N/A		N/A		
Casing Diameter (in)				Casing Depth (ft)		Water Level (ft.)		First		Completion		24 HR.		
N/A				N/A		∇ 17		∇ N/A		∇ N/A				
Casing Hammer			Weight (lbs)		Drop (in)		Drilling Foreman							
N/A			N/A		N/A		Rohn Dixon							
Sampler						Field Engineer								
4-foot long acetate liner						Tyler Zorn								
Sampler Hammer			Weight (lbs)		Drop (in)									
NA			NA		NA									
<div>MATERIAL SYMBOL</div>	<div>Elev. (ft)</div>	<div>Sample Description</div>	<div>PID (ppm)</div>	<div>Depth Scale</div>	<div>Sample Data</div>						<div>Remarks</div> <div>(Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)</div>			
					<div>Number</div>	<div>Type</div>	<div>Recov. (in)</div>	<div>Penetr. resist BL/6in</div>	<div>Jerome (ug/m³)</div>	<div>XRF (ppm)</div>				
						R1	MACROCORE	34/48			<LOD	Collected SB12_1-3.		
											<LOD			
											<LOD			
											<LOD			
											<LOD			
						R2	MACROCORE	34/48			<LOD		Collected SB12_6-8.	
											<LOD			
											<LOD			
											<LOD			
						R3	MACROCORE	22/48			<LOD			Collected SB12_14-16.
											<LOD			
											<LOD			
						R4	MACROCORE	38/48			<LOD	End of boring at 20 feet below grade surface. Borehole backfilled with soil cuttings and clean sand to grade and sealed with concrete.		
											<LOD			
											<LOD			
											<LOD			
						R5	MACROCORE	36/48			<LOD			
											<LOD			
	<LOD													
	<LOD													
							<LOD							
							<LOD							
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Project	250 Water Street			Project No.	170381202		
Location	250 Water Street			Elevation and Datum	N/A		
Drilling Company	AARCO Environmental Services, Corp.			Date Started	8/18/20		Date Finished
Drilling Equipment	Geoprobe 7822 DT			Completion Depth	20 ft		Rock Depth
Size and Type of Bit	2-inch diameter closed point macro core			Number of Samples	5		Disturbed
Casing Diameter (in)	N/A		Casing Depth (ft)	N/A		Undisturbed	Core
Casing Hammer	N/A		Weight (lbs)	N/A		Completion	24 HR.
Sampler	4-foot long acetate liner			Drilling Foreman	Rohn Dixon		
Sampler Hammer	NA		Weight (lbs)	NA		Field Engineer	Thomas Schiefer

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BLU/in	Jerome (ug/m ³)	XRF (ppm)	
		Asphalt		0							
		R1A (3"-27"): Brown fine SAND, some fine gravel, brick, wood, asphalt (dry) [FILL]		0.0					0.00	<LOD	Collected SB13_0-2.
				0.0							
				0.0							
				0.0							
				0.0					0.00	<LOD	Collected SB13_4-6.
				0.0							
				0.0							
				0.0							
				0.0							Collected SB13_12-14.
				0.0							
				0.0							
				0.0							
				0.0							End of boring at 20 feet below grade surface. Borehole backfilled with soil cuttings and clean sand to grade and sealed with asphalt.
				0.0							
				0.0							
				0.0							

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Project 250 Water Street				Project No. 170381202			
Location 250 Water Street				Elevation and Datum N/A			
Drilling Company AARCO Environmental Services, Corp.				Date Started 8/19/20		Date Finished 8/19/20	
Drilling Equipment Geoprobe 7822 DT				Completion Depth 20 ft		Rock Depth N/A	
Size and Type of Bit 2-inch diameter closed point macro core				Number of Samples 5		Undisturbed N/A	
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 8		Completion N/A	
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		24 HR. N/A	
Sampler 4-foot long acetate liner				Drilling Foreman Rohn Dixon			
Sampler Hammer NA				Field Engineer Tyler Zorn			

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Project 250 Water Street				Project No. 170381202			
Location 250 Water Street				Elevation and Datum N/A			
Drilling Company AARCO Environmental Services, Corp.				Date Started 8/19/20		Date Finished 8/19/20	
Drilling Equipment Geoprobe 7822 DT				Completion Depth 20 ft		Rock Depth N/A	
Size and Type of Bit 2-inch diameter closed point macro core				Number of Samples 5		Disturbed N/A	
Casing Diameter (in) N/A				Casing Depth (ft) N/A		Core N/A	
Casing Hammer N/A				Weight (lbs) N/A		Drop (in) N/A	
Sampler 4-foot long acetate liner				Drilling Foreman Rohn Dixon			
Sampler Hammer NA				Weight (lbs) NA		Drop (in) NA	
				Field Engineer Tyler Zorn			

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)		
					Number	Type	Recov. (in)	Penetr. resist	BLU/in	Jerome (ug/m ³)		XRF (ppm)	
		R1A (0"-32"): Grey to reddish brown medium SAND, some fine gravel, some fine sand, brick, concrete (dry) [FILL]	0.0	0	R1	MACROCORE	32/48			0.00	<LOD	Collected SB15_0-2.	
			0.0	1									
			0.0	2									
			0.0	3									
			0.0	4									
		R2A (26"-48"): Grey to reddish brown medium SAND, some fine gravel, some fine sand, brick, concrete, wood (dry) [FILL]	0.0	6	R2	MACROCORE	22/48			0.00	<LOD		
			0.0	7									
			0.0	8									
		R3A (10"-24"): Grey to reddish brown medium SAND, some fine gravel, some fine sand, brick, concrete (moist) [FILL] R3B (24"-32"): Grey to black fine SAND, some fine gravel, brick, glass (moist) [FILL] R3C (32"-48"): Light brown medium SAND, some coarse SAND, trace fine sand (moist) [SP]	0.0	9	R3	MACROCORE	38/48			0.00	<LOD		Collected SB15_8-10.
			0.0	10									
		0.0	11										
	R4B (24"-48"): Light brown medium SAND, some coarse sand, trace fine sand (moist) [SP]	0.0	14	R4	MACROCORE	24/48			0.97	<LOD	Collected SB15_14-16.		
		0.0	15										
	R5A (0"-48"): Light brown to brown medium SAND, some fine sand (moist) [SP]	0.0	16	R5	MACROCORE	48/48			0.00	<LOD			
		0.0	17										
		0.0	18										
		0.0	19										
		0.0	20										

End of boring at 22 feet below grade surface (bgs). Monitoring well MW15 installed in borehole to 22 feet bgs with screen between 12 and 22 feet bgs.

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Project 250 Water Street					Project No. 170381202				
Location 250 Water Street					Elevation and Datum N/A				
Drilling Company AARCO Environmental Services, Corp.					Date Started 7/30/20		Date Finished 7/30/20		
Drilling Equipment Geoprobe 7822 DT					Completion Depth 10 ft		Rock Depth N/A		
Size and Type of Bit 2-inch diameter closed point macro core					Number of Samples 3		Disturbed N/A		Core N/A
Casing Diameter (in) N/A			Casing Depth (ft) N/A		Water Level (ft.) First ∇ N/A		Completion ∇ N/A		24 HR. ∇ N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Sergio Magana			
Sampler 4-foot long acetate liner					Field Engineer Adrian Heath				
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA					

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist	Jerome (ug/m ³)	XRF (ppm)	
		Asphalt		0							
		R1A (0-24") Brown fine SAND, brick, concrete, wood (dry) [FILL]	0.0	1	R1	MACROCORE	24/48		0.04	<LOD	
			0.0	2							
			0.0	3				0.02	<LOD		
			0.0	4							
			0.0	5							
		R2A (0-28") Brown fine SAND, brick, concrete, coal, wood (dry) [FILL]	0.0	6	R2	MACROCORE	28/48		0.07	<LOD	
			0.0	7							
			0.0	8							
		R3A (0-24") Brown fine SAND, brick, concrete, coal, wood (dry) [FILL]	0.0	9	R3	MACROCORE	24/24		0.09	<LOD	
		0.0	10					0.02	<LOD	End of boring at 10 feet below grade surface (refusal). Borehole backfilled with soil cuttings and clean sand to grade and sealed with asphalt.	
			11								
			12								
			13								
			14								
			15								
			16								
			17								
			18								
			19								
			20								

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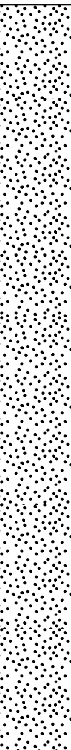
Project 250 Water Street					Project No. 170381202				
Location 250 Water Street					Elevation and Datum N/A				
Drilling Company AARCO Environmental Services, Corp.					Date Started 8/18/20		Date Finished 8/18/20		
Drilling Equipment Geoprobe 7822 DT					Completion Depth 12 ft		Rock Depth N/A		
Size and Type of Bit 2-inch diameter closed point macro core					Number of Samples 3		Disturbed N/A		Core N/A
Casing Diameter (in) N/A			Casing Depth (ft) N/A		Water Level (ft.) First ∇ N/A		Completion ∇ N/A		24 HR. ∇ N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Rohn Dixon			
Sampler 4-foot long acetate liner					Field Engineer Thomas Schiefer				
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA					

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr. resist. BLU/in	Jerome (ug/m ³)	XRF (ppm)		
		Asphalt		0								Collected SB16_0-2.
		R1A (3"-24"): Brown fine SAND, some fine gravel, brick, asphalt (dry) [FLL]	0.0	1	R1	MACROCORE	24/48		0.00	0.05		
			0.0	2					0.00	0.04		
			0.0	3								
			0.0	4								
		R2A (0"-30"): Brown fine SAND, brick (dry) [FILL]	0.0	5	R2	MACROCORE	30/48		0.00	0.01		
			0.0	6					0.00	0.10		
			0.0	7					0.00	0.03		
			0.0	8								
			0.0	9	R3	MACROCORE	30/48					
			0.0	10								
		R3A (0"-30"): Brown fine SAND, brick (dry) [FILL]	0.0	11					0.00	0.07		
		0.0	12								End of boring at 12 feet below grade surface (bgs). Borehole backfilled with soil cuttings and clean sand to grade and sealed with asphalt.	
			13									
			14									
			15									
			16									
			17									
			18									
			19									
			20									

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Project 250 Water Street				Project No. 170381202			
Location 250 Water Street				Elevation and Datum N/A			
Drilling Company AARCO Environmental Services, Corp.				Date Started 7/31/20		Date Finished 7/31/20	
Drilling Equipment Geoprobe 7822 DT				Completion Depth 32 ft		Rock Depth N/A	
Size and Type of Bit 2-inch diameter closed point macro core				Number of Samples 8		Disturbed N/A	
Casing Diameter (in) N/A				Casing Depth (ft) N/A		Core N/A	
Casing Hammer N/A				Weight (lbs) N/A		Drop (in) N/A	
Sampler 4-foot long acetate liner				Drilling Foreman Sergio Magana			
Sampler Hammer NA				Weight (lbs) NA		Drop (in) NA	
				Field Engineer Adrian Heath			

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr. resist	Jerome (ug/m ³)	XRF (ppm)		
		Asphalt	0.0	0								Collected SB17_0-2.
		R1A (0"-31"): Reddish brown fine SAND, trace silt, brick, concrete (dry) [FILL]	0.0	1	R1	MACROCORE	31/48		0.07	<LOD		
			0.0	2								
			0.0	3					0.09	<LOD		
			0.0	4								
			0.0	5	R2	MACROCORE	15/48					
		R2A (0"-15"): Light brown fine SAND, trace medium sand, brick (dry) [FILL]	0.0	7					0.10	<LOD		
			0.0	8					0.08	<LOD		
			0.0	9								
			0.0	10	R3	MACROCORE	19/48					
		R3A (0"-4"): Light brown fine SAND, trace medium sand, brick (dry) [FILL]	6.4	11					0.07	<LOD	Petroleum-like odors and staining from 10 to 28 feet below grade surface (bgs).	
		R3B (4"-19"): Brown-grey fine SAND, some fine gravel (wet) [SP]	11.8	12					0.05	<LOD		
			27						0.14	<LOD		
			13.4									
				13								
				14	R4	MACROCORE	17/48					
	R4A (0"-17"): Blackish grey fine SAND (wet) [SP]	57.1	15					0.09	<LOD	Collected SB17_14-16		
		86	16					0.12	<LOD			
		6.0										
		4.5										
			17									
	R5A (0"-35"): Greyish brown fine SAND (wet) [SP]	5.0	18	R5	MACROCORE	35/48			0.08	<LOD		
		6.4	19									
		3.9										
		5.0										
		2.9										
		1.7										
			20									

Project			250 Water Street			Project No.			170381202					
Location			250 Water Street			Elevation and Datum			N/A					
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)			
					Number	Type	Recov. (in)	Penetr. resist. BL/6in	Jerome (ug/m³)	XRF (ppm)				
		R6A (0"-30"): Greyish brown fine SAND (wet) [SP]	1.3	20	R6	MACROCORE	30/48		0.00	<LOD	Collected SB17_30-32. End of boring at 32 feet bgs. Monitoring well MW17 installed in borehole to 17 feet bgs with screen between 7 and 17 feet bgs.			
				21										
			1.1	22					0.06	<LOD				
			1.0	23					0.07	<LOD				
			24	R7	MACROCORE	38/48								
			25											
		1.0	26										0.06	<LOD
		1.1	27										0.09	<LOD
			28	R8	MACROCORE	24/48								
			29											
		0.0	30										0.10	<LOD
		0.4	31											
	32													
	33													
	34													
	35													
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Project 250 Water Street					Project No. 170381202				
Location 250 Water Street					Elevation and Datum N/A				
Drilling Company AARCO Environmental Services, Corp.					Date Started 7/30/20		Date Finished 7/30/20		
Drilling Equipment Geoprobe 7822 DT					Completion Depth 20 ft		Rock Depth N/A		
Size and Type of Bit 2-inch diameter closed point macro core					Number of Samples 5		Disturbed N/A		Core N/A
Casing Diameter (in) N/A			Casing Depth (ft) N/A		Water Level (ft.) First ∇ 16.5		Completion ∇ N/A		24 HR. ∇ N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Sergio Magana			
Sampler 4-foot long acetate liner					Field Engineer Ashley Stappenbeck				
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA					

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr. resist	BLU6in	Jerome (ug/m ³)		XRF (ppm)
Asphalt		R1A (0-20"): Brown fine SAND, trace coarse sand, trace medium sand, brick (dry) [FILL]		0								
				0.0						0.04	<LOD	Collected SB18_0-2.
			0.0	1					0.09	<LOD		
			0.0	2	R1	MACROCORE	20/48					
				3								
		R2A (0-18"): Brown fine SAND, trace coarse sand, trace medium sand, brick (dry) [FILL]		4								Collected SB18_7-8.
			0.0	5								
			0.0	6	R2	MACROCORE	27/48			0.10	<LOD	
			0.0	7								
		R2B (18-27"): Light brown fine SAND, some medium sand (dry) [SP]		8						0.17	<LOD	
			0.0	9								
		R3A (0-20"): Light brown fine SAND, some medium sand (dry) [SP]		10	R3	MACROCORE	25/48			0.21	<LOD	
			0.0	11								
		R3B (20-25"): Brown fine SAND (dry) [SP]		12						0.03	<LOD	
			0.0	13								
		R4A (0-21"): Brown fine SAND, trace silt, trace clay (dry)		14	R4	MACROCORE	33/48			0.01	<LOD	
			0.0	15								
		R4B (21-33"): Light brown fine SAND, trace medium sand (dry) [SP]		16						0.05	<LOD	Clay lenses from 19 to 20 feet below grade surface (bgs). Collected SB18_18-20.
		R5A (0-32"): Brown fine SAND, trace medium sand (wet) [SP]		17								
			0.0	18	R5	MACROCORE	43/48			0.01	<LOD	End of boring at 20 feet below grade surface. Borehole backfilled with soil cuttings and clean sand to grade and sealed with asphalt.
		R5B (32-43"): Brown fine SAND, trace medium sand, trace clay (wet)		19								
			0.0	20						0.03	<LOD	

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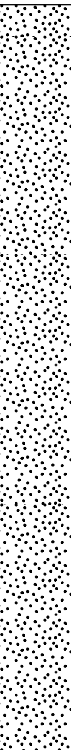
Project 250 Water Street				Project No. 170381202			
Location 250 Water Street				Elevation and Datum N/A			
Drilling Company AARCO Environmental Services, Corp.				Date Started 7/29/20		Date Finished 7/29/20	
Drilling Equipment Geoprobe 7822 DT				Completion Depth 20 ft		Rock Depth N/A	
Size and Type of Bit 2-inch diameter closed point macro core				Number of Samples 5		Undisturbed N/A	
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First ∇ 16		Completion ∇ N/A	
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Sergio Magana	
Sampler 4-foot long acetate liner				Field Engineer Ashley Stappenbeck			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA			

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist	Jerome (ug/m ³)	XRF (ppm)	
		Asphalt		0							
		R1A (0-21"): Brown fine SAND, trace coarse sand, brick, coal, metal (dry) [FILL]	0.0	1	R1	MACROCORE	21/48		0.02	<LOD	Collected SB19_0-2.
			0.0	2					0.04	<LOD	
			0.0	3							
			0.0	4							
			0.0	5							
		R2A (0-6"): Brown fine SAND, trace coarse sand, coal, brick (dry) [FILL]	0.0	6	R2	MACROCORE	28/48		0.05	<LOD	
		R2B (6-28"): Light brown fine SAND, some medium sand (dry) [SP]	0.0	7							Collected SB19_6-8.
			0.0	8					0.05	<LOD	
			0.0	9							
		R3A (0-28"): Light brown fine SAND, some medium sand, trace clay (dry)	0.0	10	R3	MACROCORE	28/48		0.03	<LOD	
			0.0	11							
			0.0	12					0.02	<LOD	
			0.0	13							
		R4A (0-28"): Light brown fine SAND, some medium sand, trace clay (dry)	0.0	14	R4	MACROCORE	23/48		0.03	<LOD	
			0.0	15							
			0.0	16					0.10	<LOD	
		R5A (0-48"): Brown fine SAND, some medium sand (wet) [SP]	0.0	17							Collected SB19_18-20.
			0.0	18	R5	MACROCORE	48/48		0.00	<LOD	End of boring at 20 feet below grade surface (bgs). Borehole backfilled with soil cuttings and clean sand to grade and sealed with asphalt.
			0.0	19							
		0.0	20					0.00	<LOD		

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Project 250 Water Street					Project No. 170381202				
Location 250 Water Street					Elevation and Datum N/A				
Drilling Company AARCO Environmental Services, Corp.					Date Started 7/30/20		Date Finished 7/30/20		
Drilling Equipment Geoprobe 7822 DT					Completion Depth 32 ft		Rock Depth N/A		
Size and Type of Bit 2-inch diameter closed point macro core					Number of Samples 8		Disturbed N/A		Core N/A
Casing Diameter (in) N/A			Casing Depth (ft) N/A		Water Level (ft.) First ∇ 17		Completion ∇ N/A		24 HR. ∇ N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Sergio Magana			
Sampler 4-foot long acetate liner					Field Engineer Ashley Stappenbeck				
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA					

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr. resist	Jerome (ug/m ³)	XRF (ppm)		
		Asphalt		0								
		R1A (0-26"): Brown fine SAND, trace coarse sand, brick (dry) [FILL]	0.0	1	R1	MACROCORE	26/48		0.02	<LOD	Collected SB20_0-2.	
			0.0	2								
			0.0	3				0.00	<LOD			
			0.0	4								
			0.0	5								
		R2A (0-29"): Brown fine SAND, trace coarse sand, brick (dry) [FILL]	0.0	6	R2	MACROCORE	29/48		0.00	<LOD		
			0.0	7								
			0.0	8				0.03	<LOD			
			0.0	9								
		R3A (0-14"): Brown fine SAND, trace coarse sand, brick (dry) [FILL]	18.7	10	R3	MACROCORE	34/48		0.00	<LOD		
			21.4	11								
	R3B (14-34"): Light brown fine SAND (dry) [SP]	26.4	12					0.00	<LOD			
		23.9	13									
		24.5	14	R4	MACROCORE	26/48		0.00	<LOD			
		16.7	15									
			16					0.00	<LOD			
			17	R5	MACROCORE	48/48						
			18					0.00	<LOD			
			19									
			20									

Project				Project No.									
250 Water Street				170381202									
Location				Elevation and Datum									
250 Water Street				N/A									
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)		
					Number	Type	Recov. (in)	Penetr. resist. BL/6in	Jerome (ug/m ³)	XRF (ppm)			
		R6A (0-45"): Grey to dark grey fine SAND, some medium sand (wet) [SP]	223.1	20	R6	MACROCORE	43/48		0.00	<LOD	Collected SB20_20-22.		
	370.4												
	266.7		21										
	299.1												
	225.1		22									0.00	10.3
	337.6												
	286.5	23											
	88.9												
	64.6	24				0.00	8.9						
	1.3	25	R7	MACROCORE	48/48								
		26											
		27											
	1.7	28											
			R8	MACROCORE	48/48								
		29											
		30											
	0.0	31											
		0.0	32				0.02	<LOD	End of boring at 32 feet bgs. Borehole backfilled with soil cuttings and clean sand to grade and sealed with asphalt.				
			33										
			34										
			35										
			36										
		37											
		38											
		39											
		40											
		41											
		42											
		43											
		44											
		45											

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Project 250 Water Street					Project No. 170381202				
Location 250 Water Street					Elevation and Datum N/A				
Drilling Company AARCO Environmental Services, Corp.					Date Started 7/30/20		Date Finished 7/30/20		
Drilling Equipment Geoprobe 7822 DT					Completion Depth 10 ft		Rock Depth N/A		
Size and Type of Bit 2-inch diameter closed point macro core					Number of Samples 3		Disturbed N/A		Core N/A
Casing Diameter (in) N/A			Casing Depth (ft) N/A		Water Level (ft.) First ∇ N/A		Completion ∇ N/A		24 HR. ∇ N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Sergio Magana			
Sampler 4-foot long acetate liner					Field Engineer Ashley Stappenbeck				
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA					

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)		
					Number	Type	Recov. (in)	Penetr. resist	BLU6in	Jerome (ug/m ³)		XRF (ppm)	
		Asphalt		0									
		R1A (0-24"): Dark brown fine SAND, trace coarse sand, trace medium sand, brick, coal (dry) [FILL]	0.0	0	R1	MACROCORE	24/48			0.04	<LOD		
			0.0	1									
			0.0	2									
			0.0	3									
				4									
				5									
				6	R2	MACROCORE	28/48			0.07	<LOD		
		R2A (0-28"): Dark brown fine SAND, trace coarse sand, trace medium sand, trace silt, brick, coal (dry) [FILL]	0.0	6									
			13.1	7									
		0.0	8	R3	MACROCORE	15/24			0.04	<LOD			
		42.9	8										
		2.7	9										
		R3A (0-15"): Brown fine SAND, trace medium sand, trace coarse sand, wood, brick (dry) [FILL]	0.0	10						0.08	<LOD		
			0.0	10						0.05	<LOD		
				11									
				12									
				13									
				14									
				15									
				16									
				17									
				18									
				19									
				20									

End of boring at 10 feet below grade surface (refusal). Borehole backfilled with soil cuttings and clean sand to grade and sealed with asphalt.

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Project 250 Water Street				Project No. 170381202			
Location 250 Water Street				Elevation and Datum N/A			
Drilling Company AARCO Environmental Services, Corp.				Date Started 8/18/20		Date Finished 8/18/20	
Drilling Equipment Geoprobe 7822 DT				Completion Depth 11 ft		Rock Depth N/A	
Size and Type of Bit 2-inch diameter closed point macro core				Number of Samples 3		Disturbed N/A	
Casing Diameter (in) N/A				Casing Depth (ft) N/A		Core N/A	
Casing Hammer N/A				Weight (lbs) N/A		Drop (in) N/A	
Sampler 4-foot long acetate liner				Drilling Foreman Rohn Dixon			
Sampler Hammer NA				Weight (lbs) NA		Drop (in) NA	
				Field Engineer Tyler Zorn			

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist	Jerome (ug/m ³)	XRF (ppm)	
X		R1A (0"-36"): Light brown to light grey fine SAND, some medium sand, some fine gravel, brick, concrete (dry) [FILL]		0	R1 MACROCORE	36/48			0.00	<LOD	Collected SB21R_0-2.
				1							
				2							
				3							
		R1A (16"-34"): Light brown to light grey fine SAND, some medium sand, some fine gravel, brick, concrete (dry) [FILL]		4	R2 MACROCORE	28/48			0.00	<LOD	Collected SB21R_6-8.
				5							
				6							
		R2B (34"-48"): Light grey to black fine SAND, some fine gravel (dry) [FILL]		7	R3 MACROCORE	12/36			0.00	<LOD	Petroleum-like odors from 7 to 8 feet below grade surface (bgs).
				8							
				9							
		R3A (36"-48"): Light brown to light grey fine SAND, some medium sand, some fine gravel, brick, concrete, wood (moist) [FILL]		10					0.00	<LOD	End of boring at 11 feet bgs (refusal-wood). Borehole backfilled with soil cuttings and clean sand to grade and sealed with concrete.
			11								
			12								
			13								
			14								
			15								
			16								
			17								
			18								
			19								
			20								

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Project 250 Water Street					Project No. 170381202				
Location 250 Water Street					Elevation and Datum N/A				
Drilling Company AARCO Environmental Services, Corp.					Date Started 7/30/20		Date Finished 7/30/20		
Drilling Equipment Geoprobe 7822 DT					Completion Depth 10 ft		Rock Depth N/A		
Size and Type of Bit 2-inch diameter closed point macro core					Number of Samples 3		Disturbed N/A		Core N/A
Casing Diameter (in) N/A			Casing Depth (ft) N/A		Water Level (ft.) First ∇ N/A		Completion ∇ N/A		24 HR. ∇ N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Sergio Magana			
Sampler 4-foot long acetate liner					Field Engineer Ashley Stappenbeck				
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA					

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BLU/in	Jerome (ug/m ³)	XRF (ppm)	
		Asphalt		0							
		R1A (0-35"): Brown fine SAND, trace coarse sand, trace medium sand, brick, coal (dry) [FILL]	0.0	1	R1	MACROCORE	35/48		0.09	<LOD	
			0.0	2							
			0.0	3				0.14	<LOD		
			0.0	4							
			0.0	5							
			0.0	6	R2	MACROCORE	21/48		0.10	<LOD	
		R2A (0-21"): Brown fine SAND, trace coarse sand, trace medium sand, brick, coal (dry) [FILL]	0.0	7							
			0.0	8							
		No Recovery	0.0	9	R3	MACROCORE	0/24		0.08	<LOD	
			10								
			11								
			12								
			13								
			14								
			15								
			16								
			17								
			18								
			19								
			20								

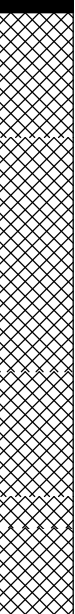
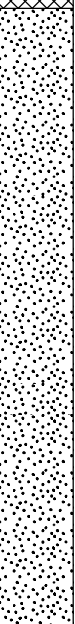
End of boring at 9.5 feet below grade surface (refusal). Borehole backfilled with soil cuttings and clean sand to grade and sealed with asphalt.

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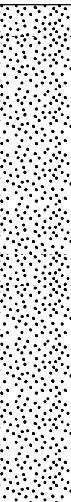
Project 250 Water Street					Project No. 170381202				
Location 250 Water Street					Elevation and Datum N/A				
Drilling Company AARCO Environmental Services, Corp.					Date Started 8/18/20		Date Finished 8/18/20		
Drilling Equipment Geoprobe 7822 DT					Completion Depth 10 ft		Rock Depth N/A		
Size and Type of Bit 2-inch diameter closed point macro core					Number of Samples 3		Disturbed N/A		Core N/A
Casing Diameter (in) N/A			Casing Depth (ft) N/A		Water Level (ft.) First ∇ N/A		Completion ∇ N/A		24 HR. ∇ N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Rohn Dixon			
Sampler 4-foot long acetate liner					Field Engineer Thomas Schiefer				
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA					

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BLU/in	Jerome (ug/m ³)	XRF (ppm)	
		Asphalt		0							
		R1A (3"-32"): Brown fine SAND, some fine gravel, brick, asphalt (dry) [FILL]	0.0	1	R1	MACROCORE	32/48		0.00	0.005	Collected SB22_0-2.
			0.0	2							
			0.0	3				0.00		Collected SB22_2-4.	
			0.0	4							
		R2A (0"-30"): Brown fine SAND, some fine gravel, brick, wood, asphalt (dry) [FILL]	0.0	5	R2	MACROCORE	30/48		0.00	0.01	Collected SB22_4-6.
			0.0	6							
			0.0	7				0.00			
			0.0	8							
		R3A (0"-12"): Brown fine SAND, some fine gravel, brick (dry) [FILL]	0.0	9	R3	MACROCORE	12/24		0.00	0.12	Collected SB22_8-10.
		0.0	10							End of boring at 10 feet below grade surface (refusal - concrete). Borehole backfilled with soil cuttings and clean sand to grade and sealed with asphalt.	
				11							
				12							
				13							
				14							
				15							
				16							
				17							
				18							
				19							
				20							

Project	250 Water Street	Project No.	170381202
Location	250 Water Street	Elevation and Datum	N/A
Drilling Company	AARCO Environmental Services, Corp.	Date Started	7/31/20
Drilling Equipment	Geoprobe 7822 DT	Date Finished	7/31/20
Size and Type of Bit	2-inch diameter closed point macro core	Completion Depth	28 ft
Casing Diameter (in)	N/A	Number of Samples	7
Casing Depth (ft)	N/A	Disturbed	7
Casing Hammer	N/A	Undisturbed	N/A
Weight (lbs)	N/A	Core	N/A
Drop (in)	N/A	Water Level (ft.)	First 12
Sampler	4-foot long acetate liner	Completion	N/A
Sampler Hammer	NA	24 HR.	N/A
Weight (lbs)	NA	Drilling Foreman	Sergio Magana
Drop (in)	NA	Field Engineer	Adrian Heath


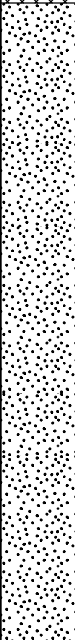
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist	Jerome (ug/m ³)	XRF (ppm)	
		Asphalt	1.0	0							
		R1A (0"-24"): Brown fine SAND, trace medium sand, brick, coal, wood (dry) [FILL]	0.0	1					0.01	<LOD	Creosote-like odor from 0.25 to 6 feet below grade surface (bgs).
			0.0	2	R1	MACROCORE	24/48		0.04	<LOD	Collected SB23_0-2.
			0.0	3							
			0.0	4							
			0.0	5							
		R2A (0"-24"): Brown to black fine SAND, trace silt, brick, wood (dry) [FILL]	2.8	6	R2	MACROCORE	24/48		0.01	<LOD	Petroleum-like odors and staining at 6.5 feet bgs.
			13.8	7							Black tar-like substance at 7 feet bgs.
			0.5	8					0.01	<LOD	
		R3A(0"-18"): Brown fine SAND, trace silt, brick, wood (dry) [FILL]	44.3	9							Petroleum-like odors and sheen from 9 feet to 24 feet bgs.
			51.3	10	R3	MACROCORE	42/48		0.01	<LOD	
		R3B(18"-42"): White to light grey fine SAND, some gravel, trace silt (moist)	54.7	11							Collected SB23_9-11.
			93	12					0.01	<LOD	
			87	13							
			4.3	14	R4	MACROCORE	36/48		0.03	<LOD	
		R4A(0"-36"): Grey-brown fine SAND (wet) [SP]	3.0	15					0.05	<LOD	
			2.3	16							
			1.6	17							
			1.2	18	R5	MACROCORE	42/48		0.03	<LOD	
		R5A(0"-42"): Grey-brown fine SAND, trace medium sand (wet) [SP]	0.5	19							
			0.5	20							

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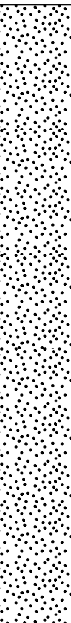
Project				Project No.															
250 Water Street				170381202															
Location				Elevation and Datum															
250 Water Street				N/A															
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)								
					Number	Type	Recov. (in)	Penetr. resist. BL/6in	Jerome (ug/m³)	XRF (ppm)									
		R6A (0"-42"): Grey-brown fine SAND, trace medium sand (wet) [SP]		20	R6	MACROCORE	42/48			0.03	<LOD	Collected SB23_26-28. End of boring at 28 feet bgs. Borehole backfilled with soil cuttings and clean sand to grade and sealed with asphalt.							
				0.0															
				0.0									21	0.03	<LOD				
				0.0									22	0.03	<LOD				
				0.0									23	0.00	<LOD				
				0.0									24						
				0.0									25	R7	MACROCORE	42/48		0.02	<LOD
				0.0									26						
				0.0									27						
				0.0									28						
		0.0	29																
		0.0	30																
		0.0	31																
		0.0	32																
		0.0	33																
		0.0	34																
		0.0	35																
		0.0	36																
		0.0	37																
		0.0	38																
		0.0	39																
		0.0	40																
		0.0	41																
		0.0	42																
		0.0	43																
		0.0	44																
0.0	45																		

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Project 250 Water Street				Project No. 170381202			
Location 250 Water Street				Elevation and Datum N/A			
Drilling Company AARCO Environmental Services, Corp.				Date Started 7/29/20		Date Finished 7/29/20	
Drilling Equipment Geoprobe 7822 DT				Completion Depth 30 ft		Rock Depth N/A	
Size and Type of Bit 2-inch diameter closed point macro core				Number of Samples 8		Disturbed N/A	
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First ∇ 18		Undisturbed Completion ∇ N/A	
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Nick Turro	
Sampler 4-foot long acetate liner				Field Engineer Ashley Stappenbeck			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA			

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BLU/in	Jerome (ug/m ³)	XRF (ppm)	
		Asphalt		0							
		R1A (0-32"): Brown fine SAND, trace coarse sand, brick, concrete (dry) [FILL]		0.0							
				0.0	1						Collected SB24_0-2.
				0.0	2	R1	32/48		0.14	<LOD	
				0.0	3	MACROCORE			0.10	257.0	
				0.0	4						
				0.0	5						
		R2A (0-6"): Brown fine SAND, trace coarse sand, brick (dry) [FILL]		0.0	6	R2	20/48		0.19	6.0	Collected SB24_6-8.
		R2B (6-20"): Brown fine SAND, some medium sand, trace coarse sand (dry) [FILL]		0.0	7	MACROCORE					
				0.0	8				0.75	<LOD	
				0.0	9						
		R3A (0-27"): Brown fine SAND, trace medium sand (dry) [SP]		0.0	10	R3	27/48		0.18	<LOD	Collected SB24_10-12.
				0.0	11	MACROCORE					
				0.0	12				0.12	<LOD	
				0.0	13						
		R4A (0-32"): Light brown fine SAND, some medium sand (dry) [SP]		0.0	14	R4	32/48		0.25	<LOD	
				0.0	15	MACROCORE					
				0.0	16				0.22	<LOD	
				0.0	17						
		R5A (0-36"): Brown fine SAND, trace medium sand, trace coarse sand (wet) [SP]		0.0	18	R5	36/48		0.25	<LOD	
				0.0	19	MACROCORE					
				0.0	20						

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Project				Project No.									
250 Water Street				170381202									
Location				Elevation and Datum									
250 Water Street				N/A									
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)		
					Number	Type	Recov. (in)	Penetr. resist. BL/6in	Jerome (ug/m ³)	XRF (ppm)			
		R6A (0-22"): Brown fine SAND, trace medium sand, trace coarse sand (wet) [SP]	0.0	20	R6	MACROCORE	26/48		0.10	<LOD	End of boring at 30 feet below grade surface (bgs). Borehole backfilled with soil cuttings and clean sand to grade and sealed with asphalt.		
				21									
			0.0	22								0.39	<LOD
			0.0	23									
			0.0	24	R7	MACROCORE	32/48		0.09	<LOD			
				25									
			0.0	26					0.54	2.0			
			0.0	27									
			0.0	28	R8	MACROCORE	24/24		0.04	<LOD			
			0.0	29									
			0.0	30					0.08	<LOD			
				31									
			32										
			33										
			34										
			35										
			36										
			37										
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			40										
			41										
			42										
			43										
			44										
			45										

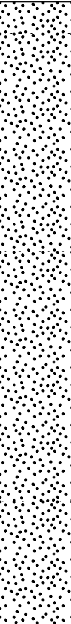
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End of boring at 30 feet below grade surface (bgs). Borehole backfilled with soil cuttings and clean sand to grade and sealed with asphalt.

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr. resist. BL/6in	Jerome (ug/m ³)	XRF (ppm)		
		Asphalt		0							Collected SB25_0-2.	
		R1A (0-36"): Light brown fine SAND, trace medium sand, trace coarse sand, brick (dry) [FILL]	0.0	1	R1	MACROCORE	36/48		0.15	<LOD		
			0.0	2								
			0.0	3								
			0.0	4								
		R2A (0-9"): Light brown fine SAND, trace coarse sand, brick (dry) [FILL]	0.0	5	R2	MACROCORE	33/48		1.72	<LOD		Collected SB25_6-8.
		R2B (9-33"): Light brown fine SAND, trace medium sand (dry) [SP]	0.0	6								
			0.0	7	R3	MACROCORE	28/48		0.13	<LOD		
			0.0	8								
			0.0	9								
			0.0	10								
		R3A (0-28"): Light brown fine SAND, some medium sand (dry) [SP]	0.0	11	R4	MACROCORE	38/48		0.02	<LOD		
			0.0	12								
			0.0	13								
			0.0	14								
		R4A (0-28"): Light brown fine SAND, some medium sand (dry) [SP]	0.0	15	R5	MACROCORE	34/48		0.08	<LOD		
			0.0	16								
		R4B (28-38"): Light brown fine SAND, some medium sand (wet) [SP]	0.0	17	R5	MACROCORE	34/48		0.12	<LOD		
			0.0	18								
			0.0	19								
			0.0	20								
		R5A (0-34"): Brown fine SAND, some medium sand, trace coarse sand (wet) [SP]	0.0	20								

Project	250 Water Street	Project No.	170381202
Location	250 Water Street	Elevation and Datum	N/A

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BL/6in	Jerome (ug/m ³)	XRF (ppm)	
		R6A (0-43"): Brown fine SAND, some medium sand, trace coarse sand (wet) [SP]	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	20 21 22 23	R6	MACROCORE	43/48		0.08	<LOD	
		R7A (0-48"): Brown fine SAND, some medium sand, trace coarse sand (wet) [SP]	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	24 25 26 27	R7	MACROCORE	48/48		0.01	<LOD	
		R8A (0-24"): Brown fine SAND, some medium sand, trace coarse sand (wet) [SP]	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	R8	MACROCORE	24/24		0.05	<LOD	Collected SB25_28-30.
									0.0	<LOD	End of boring at 30 feet below grade surface (bgs). Monitoring well MW25 installed in borehole to 22 feet bgs with screen between 12 and 22 feet bgs.

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Project 250 Water Street				Project No. 170381202			
Location 250 Water Street				Elevation and Datum N/A			
Drilling Company AARCO Environmental Services, Corp.				Date Started 8/17/20		Date Finished 8/17/20	
Drilling Equipment Geoprobe 7822 DT				Completion Depth 6 ft		Rock Depth N/A	
Size and Type of Bit 2-inch diameter closed point macro core				Number of Samples 2		Disturbed N/A	
Casing Diameter (in) N/A				Casing Depth (ft) N/A		Core N/A	
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Water Level (ft.) First ∇ N/A	
Sampler 4-foot long acetate liner				Completion ∇ N/A			
Sampler Hammer NA		Weight (lbs) NA		Drop (in) NA		24 HR. ∇ N/A	
Drilling Foreman Rohn Dixon				Field Engineer Tyler Zorn			

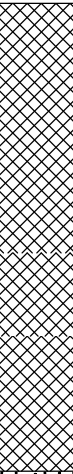
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr. resist	Jerome (ug/m ³)	XRF (ppm)		
		R1A (0"-48"): Light brown to reddish grey medium SAND, some fine gravel, brick, concrete (moist) [FILL]	0.0	0	R1	MACROCORE	48/48			0.00	<LOD	Collected SB26_0-2.
			0.0	1								
			0.0	2								
			0.0	3								
			0.0	4								
		R2A (0"-24"): Light brown to reddish grey medium SAND, some fine gravel, brick (moist) [FILL]	0.0	4	R2	MACROCORE	24/24			0.10	<LOD	
			0.0	5								
			0.0	6								
			0.0	7								
			0.0	8								
			0.0	6						0.20	<LOD	End of boring at 6 feet below grade surface (refusal). Borehole backfilled with soil cuttings and clean sand to grade and sealed with concrete.
			7									
			8									
			9									
			10									
			11									
			12									
			13									
			14									
			15									
			16									
			17									
			18									
			19									
			20									

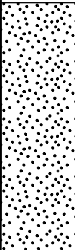
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Project 250 Water Street				Project No. 170381202			
Location 250 Water Street				Elevation and Datum N/A			
Drilling Company AARCO Environmental Services, Corp.				Date Started 8/24/20		Date Finished 8/24/20	
Drilling Equipment AMS Power Probe 9580-VTR				Completion Depth 20 ft		Rock Depth N/A	
Size and Type of Bit 2-inch diameter closed point macro core				Number of Samples 5		Disturbed N/A	
Casing Diameter (in) N/A				Casing Depth (ft) N/A		Core N/A	
Casing Hammer N/A				Weight (lbs) N/A		Drop (in) N/A	
Sampler 4-foot long acetate liner				Drilling Foreman Rohn Dixon			
Sampler Hammer NA				Weight (lbs) NA		Drop (in) NA	
				Field Engineer Lexi Haley			

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist	Jerome (ug/m ³)	XRF (ppm)	
FILL	0.0	R1A (0"-44"): Reddish brown fine SAND, some fine gravel, concrete, brick (dry) [FILL]	0.0	0	R1	MACROCORE	44/48			<LOD	Collected SB26_0-2.
	0.0		1								
	0.0		2								
	0.0		3								
	0.0		4								
FILL	0.0	R2A (24"-48"): Reddish brown fine SAND, some fine gravel, concrete, brick (dry) [FILL]	0.0	5	R2	MACROCORE	24/48			<LOD	Collected SB26_6-8.
	0.0		6								
	0.0		7								
	0.0		8								
	0.0		9								
FILL	0.0	R3A (42"-48"): Reddish brown fine SAND, some fine gravel, concrete, brick (dry) [FILL]	0.0	10	R3	MACROCORE	6/48			<LOD	
	0.0		11								
	0.0		12								
	0.0		13								
	0.0		14								
FILL	0.0	R4A (8"-48"): Light brown fine SAND, trace medium sand (wet) [SP]	0.0	15	R4	MACROCORE	40/48			<LOD	Collected SB26_13-15, SODUP05_08242020.
	0.0		16								
	0.0		17								
	0.0		18								
	0.0		19								
FILL	0.0	R5A (3"-48"): Brown fine SAND, trace medium sand (wet) [SP]	0.0	20	R5	MACROCORE	45/48			<LOD	End of boring at 20 feet below grade surface (bgs). Monitoring well MW26 installed in borehole to 20 feet bgs with screen between 10 and 20 feet bgs.
	0.0		21								
	0.0		22								
	0.0		23								
	0.0		24								

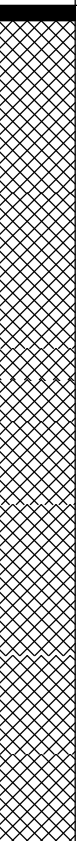
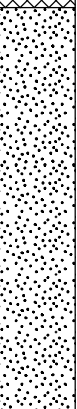
Project				Project No.			
250 Water Street				170381202			
Location				Elevation and Datum			
250 Water Street				N/A			
Drilling Company				Date Started		Date Finished	
AARCO Environmental Services, Corp.				8/20/20		8/20/20	
Drilling Equipment				Completion Depth		Rock Depth	
Geoprobe 7822 DT				24 ft		N/A	
Size and Type of Bit				Number of Samples		Undisturbed	
2-inch diameter closed point macro core				Disturbed 6		N/A	
Casing Diameter (in)		Casing Depth (ft)		Water Level (ft.)		Completion	
N/A		N/A		First ▽ 12		24 HR. ▽ N/A	
Casing Hammer		Weight (lbs)		Drop (in)		Drilling Foreman	
N/A		N/A		N/A		Rohn Dixon	
Sampler				Field Engineer			
4-foot long acetate liner				Tyler Zorn			
Sampler Hammer		Weight (lbs)		Drop (in)			
NA		NA		NA			

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist BL/6in	Jerome (ug/m ³)	
	R1A (0"-48"): Dark grey to reddish brown fine SAND, some fine gravel, some medium sand, brick, concrete (dry) [FILL]	0.0	0	R1	MACROCORE	48/48			<LOD	Collected SB27_0-2.
		0.0								
		0.0	1							
		0.0	2							
		0.0	3							
		0.0	4							
		0.0	5							
		0.0	6							
	R2A (16"-42"): Reddish brown fine SAND, some fine gravel, some medium sand, brick (dry) [FILL]	0.0		R2	MACROCORE	32/48			<LOD	Collected SB27_2-4.
		0.0								
		0.0	7							
		0.0	8							
		0.0	9							
		0.0	10							
		0.0	11							
		0.0	12							
	R2B (42"-48"): Brown to grey fine SAND, trace silt (moist) [SP-SM]	0.0		R3	MACROCORE	32/48			<LOD	Collected SB27_10-12.
		0.0								
		0.0	13							
		0.0	14							
0.0		15								
0.0		16								
0.0		17								
0.0		18								
R4A (12"-48"): Brown to grey fine SAND, some medium sand, trace silt (wet) [SP-SM]	0.0		R4	MACROCORE	36/48			<LOD	Collected SB27_18-20.	
	0.0									
	0.0	19								
	0.0	20								
R5A (0"-48"): Brown to dark grey fine SAND, some medium sand, trace silt (wet) [SP-SM]	0.0		R5	MACROCORE	48/48			<LOD		
	0.0									
	0.0									
	0.0									

Project				Project No.								
250 Water Street				170381202								
Location				Elevation and Datum								
250 Water Street				N/A								
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr. resist. BL/6in	Jerome (ug/m³)	XRF (ppm)		
		R6A (0"-48"): Brown to grey fine SAND, trace medium sand, trace silt (wet) [SP-SM]	0.7	20	R6	MACROCORE	48/48				<LOD	Petroleum-like odors from 19 to 22 feet below grade surface (bgs).
				3.0								
			0.6	22							<LOD	Collected SB27_22-24.
				1.4								
			0.0	23							<LOD	End of boring at 24 feet bgs. Borehole backfilled with soil cuttings and clean sand to grade and sealed with concrete.
				0.0								
				24							<LOD	
				24								
				25								
				25								
				26								
				26								
				27								
				27								
				28								
				28								
				29								
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MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BL/6in	Jerome (ug/m ³)	XRF (ppm)	
 		Asphalt		0							
		R1A (3"-36"): Dark brown fine to medium SAND, trace fine gravel, brick, asphalt (dry) [FILL]	0.0	1	R1	MACROCORE	36/48		0.00	<LOD	Collected SB28_0-2.
			0.0	2							
			0.0	3					0.00	<LOD	
			0.0	4							
		R2A (0"-7"): Dark brown fine to medium SAND, some fine gravel, asphalt (dry) [FILL] R2B (7"-15"): White to tan coarse SAND, glass (dry) [FILL] R2C (15"-30"): Dark brown to black fine SAND, some silt (wet) [FILL]	0.0	5	R2	MACROCORE	30/48		0.00	<LOD	Collected SB28_4-6.
			0.0	6							
			0.0	7							
			0.0	8					0.00	<LOD	
			0.0	9							
		R3A (0"-19"): Dark brownish black fine SAND, trace fine gravel, wood (wet) [FILL]	0.0	10	R3	MACROCORE	19/48		0.00	<LOD	
			0.0	11							
			0.0	12					0.00	<LOD	
			0.0	13							Collected SB28_12-14.
		R4A (0"-29"): Dark brown fine SAND, trace fine gravel, trace silt, trace clay (wet) [SP-SM]	0.0	14	R4	MACROCORE	29/48		0.00	<LOD	
			0.0	15							
			0.0	16					0.00	<LOD	
		R5A (0"-48"): Light brown fine SAND, trace fine gravel (wet)	0.0	17							
			0.0	18	R5	MACROCORE	48/48		0.00	<LOD	End of boring at 20 feet below grade surface (bgs). Borehole backfilled with soil cuttings to 14 feet bgs. Monitoring well MW28 installed in borehole to 14 feet bgs with screen between 4 and 14 feet bgs.
			0.0	19							
		0.0	20					0.00	<LOD		


Project				Project No.			
250 Water Street				170381202			
Location				Elevation and Datum			
250 Water Street				N/A			
Drilling Company				Date Started		Date Finished	
AARCO Environmental Services, Corp.				8/17/20		8/17/20	
Drilling Equipment				Completion Depth		Rock Depth	
Geoprobe 7822 DT				15 ft		N/A	
Size and Type of Bit				Number of Samples		Disturbed	
2-inch diameter closed point macro core				3		Undisturbed	
Casing Diameter (in)				Water Level (ft.)		Core	
N/A				First		N/A	
Casing Hammer				N/A		Completion	
Weight (lbs)				N/A		24 HR.	
Drop (in)				N/A		N/A	
Drilling Foreman				Rohn Dixon			
Sampler				Field Engineer			
4-foot long acetate liner				Tyler Zorn			
Sampler Hammer				NA			
Weight (lbs)				NA			
Drop (in)				NA			
MATERIAL SYMBOL				Elev. (ft)			
Sample Description				PID (ppm)			
R1A (0"-16"): Light brown to brown fine SAND, some silt, trace fine gravel, concrete (moist) [FILL]				Depth Scale			
R2A (16"-42"): Dark grey to black fine SAND, some silt, brick, concrete, wood (moist) [FILL]				Number			
R2A (38"-60"): Light brown to grey fine SAND, some silt, trace fine gravel, concrete, brick (moist) [FILL]				Type			
R3A (44"-60"): Light brown to light grey fine SAND, trace fine gravel, concrete (moist) [FILL]				Recov. (in)			
				Penetr. resist. BL/6in			
				Jerome (ug/m ³)			
				XRF (ppm)			
				Remarks			
				(Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)			
				Collected SB29_0-2.			
				Petroleum-like odors from 2 to 4 feet below grade surface (bgs).			
				Collected SB29_2-4.			
				Collected SB29_7-9.			
				Collected SB29_13-15.			
				End of boring at 15 feet bgs (refusal). Borehole backfilled with soil cuttings and clean sand to grade and sealed with concrete.			

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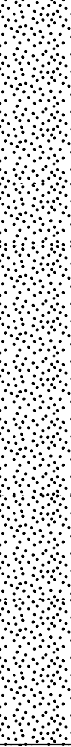
Project 250 Water Street				Project No. 170381202			
Location 250 Water Street				Elevation and Datum N/A			
Drilling Company AARCO Environmental Services, Corp.				Date Started 8/20/20		Date Finished 8/20/20	
Drilling Equipment Geoprobe 7822 DT				Completion Depth 32 ft		Rock Depth N/A	
Size and Type of Bit 2-inch diameter closed point macro core				Number of Samples 8		Disturbed N/A	
Casing Diameter (in) N/A				Casing Depth (ft) N/A		Core N/A	
Casing Hammer N/A				Weight (lbs) N/A		Drop (in) N/A	
Sampler 4-foot long acetate liner				Drilling Foreman Rohn Dixon			
Sampler Hammer NA				Weight (lbs) NA		Drop (in) NA	
				Field Engineer Tyler Zorn			

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist	Jerome (ug/m ³)	XRF (ppm)	
FILL		R1A (0"-36"): Grey to reddish brown fine SAND, some fine gravel, some medium sand, brick, concrete, wood (dry) [FILL]	0.0	0	R1 MACROCORE	36/48				<LOD	Collected SB30_0-2.
			0.0	1							
			0.0	2							
			0.0	3							
			0.0	4	R2 MACROCORE	40/48			<LOD		
			0.0	5							
			0.0	6							
			0.0	7							
			0.0	8	R3 MACROCORE	30/48			<LOD		
			0.0	9							
			0.0	10							
			0.0	11							
			0.0	12	R4 MACROCORE	30/48			<LOD		
			0.0	13							
			0.0	14							
			0.0	15							
SP-SM		R4A (18"-48"): Dark grey to black fine SAND, trace medium sand, trace silt (wet) [SP-SM]	3.6	14	R5 MACROCORE	48/48			<LOD	Petroleum-like odors and staining from 13 to 28 feet below grade surface (bgs).	
			361.0	15							
			1500	16							
			1300	17							
			315.0	18							
		R5A (0"-48"): Dark grey to balck fine SAND, trace medium sand, trace silt (wet) [SP-SM]	15000	18	R5 MACROCORE	48/48			<LOD	Collected SB30_16-18.	
		15000	19								
		15000	20								
		15000	20								

\\LANGAN.COM\DATA\IN\DATA2\170381202\PROJECT DATA_ DISCIPLINE\ENVIRONMENTAL\GINTLOGS\170381202 ENTERPRISE LH_UPDATED TM.GPJ ... 1/25/2021 8:42:22 AM ... Report: Log - LANGAN

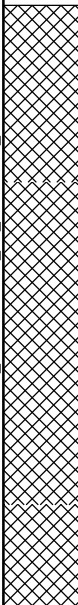
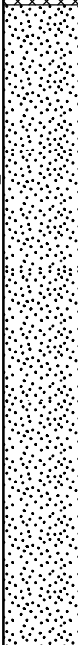
Project				Project No.							
250 Water Street				170381202							
Location				Elevation and Datum							
250 Water Street				N/A							
Drilling Company				Date Started		Date Finished					
AARCO Environmental Services, Corp.				8/24/20		8/24/20					
Drilling Equipment				Completion Depth		Rock Depth					
AMS Power Probe 9580-VTR				32 ft		N/A					
Size and Type of Bit				Number of Samples		Disturbed	Undisturbed	Core			
2-inch diameter closed point macro core				8		N/A	N/A	N/A			
Casing Diameter (in)			Casing Depth (ft)	Water Level (ft.)		First	Completion	24 HR.			
N/A			N/A	11		N/A	N/A	N/A			
Casing Hammer		Weight (lbs)	Drop (in)	Drilling Foreman							
N/A		N/A	N/A	Rohn Dixon							
Sampler				Field Engineer							
4-foot long acetate liner				Lexi Haley							
Sampler Hammer		Weight (lbs)	Drop (in)								
NA		NA	NA								
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BL/in	Jerome (ug/m ³)	XRF (ppm)	
		Concrete		0							Collected SB31_0-2. <

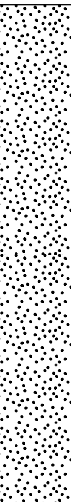
Project	250 Water Street	Project No.	170381202
Location	250 Water Street	Elevation and Datum	N/A

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BL/6in	Jerome (ug/m ³)	XRF (ppm)	
		R6A (36"-48"): Dark grey fine SAND, trace medium sand (wet) [SP] R7A (0"-48"): Dark grey fine SAND, some medium sand (wet) [SP]		20							
				21							
				22	R6	MACROCORE	12/48				
			450.0	23						<LOD	
			310.0								
			294.0	24						<LOD	
			36.0								
			32.0	25						<LOD	
		R7A (0"-48"): Dark grey fine SAND, some medium sand (wet) [SP]	24.0								
			54.0	26	R7	MACROCORE	48/48			<LOD	
			30.0								
			8.0	27						<LOD	
			2.8								
				28							
		R8A (28"-48"): Dark grey fine SAND, some medium sand (wet) [SP]		29							
				30	R8	MACROCORE	20/48			<LOD	
			23.0								
			18.0	31						<LOD	
			14.0								
				32						<LOD	
				33							
				34							
				35							
				36							
				37							
				38							
				39							
				40							
				41							
				42							
				43							
				44							
				45							
											End of boring 32 feet bgs. Borehole backfilled to 18 feet bgs with soil cuttings. Monitoring well MW31 installed in borehole to 18 feet bgs with screen between 8 and 18 feet bgs.

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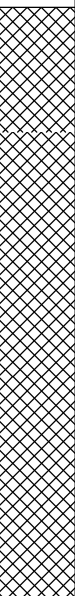
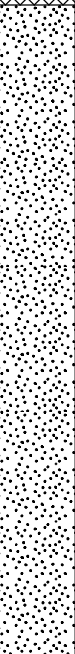
\\LANGAN.COM\DATA\IN\DATA2\170381202\PROJECT DATA_DISCIPLINE\ENVIRONMENTAL\GINTLOGS\170381202 ENTERPRISE LH_UPDATED TM.GPJ ... 1/25/2021 8:42:30 AM ... Report: Log - LANGAN

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)		
					Number	Type	Recov. (in)	Penetr. resist BL/6in	Jerome (ug/m³)	XRF (ppm)			
		R1A (0"-34"): Grey to reddish brown fine SAND, some fine gravel, trace medium sand, brick, concrete (dry) [FILL]		0							Collected SB32_0-2.		
			0.0	1	R1	MACROCORE	34/48			<LOD			
			0.0	2						<LOD			
			0.0	3						<LOD			
			0.0	4									
				R2A (33"-48"): Grey to reddish brown fine SAND, some fine gravel, brick, concrete (dry) [FILL]	5	R2	MACROCORE	15/48					<LOD
					6								
					7								
					0.0	8	R3	MACROCORE	20/48				<LOD
					0.0	9							
0.0	10												
		R3A (28"-48"): Grey to black fine SAND, trace medium sand, trace silt (moist) [SP-SM]	198.9	11	R4	MACROCORE	23/48			<LOD	Petroleum-like odors and staining from 10 to 24 feet below grade surface (bgs). Collected SB32_14-16.		
			10.7	12								<LOD	
			2.8	13									
			3.4	14									
			130.8	15	R5	MACROCORE	48/48			<LOD			
			62.3	16								<LOD	
			126.8	17								<LOD	
			441.8	18				<LOD					
			441.0	19				<LOD					
			740.1	20				<LOD					
365.2					<LOD								
57.8					<LOD								
330.9					<LOD								
54.7					<LOD								
10.8					<LOD								

Project				Project No.							
250 Water Street				170381202							
Location				Elevation and Datum							
250 Water Street				N/A							
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BL/6in	Jerome (ug/m ³)	XRF (ppm)	
		R6A (0"-48"): Brown to grey medium SAND, some fine sand (wet) [SP]	4.6	20	R6	MACROCORE	48/48			<LOD	Collected SB32_26-28. End of boring at 28 feet bgs. Monitoring well MW32 installed in borehole to 19 feet bgs with screen between 9 and 19 feet bgs.
			7.2	21							
			3.4	22							
			2.1	23							
			1.9	24							
			2.3	24	R7	MACROCORE	48/48		<LOD		
			0.2	25							
			0.0	26							
			0.0	27							
			0.0	28							
	28										
	29										
	30										
	31										
	32										
	33										
	34										
	35										
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	41										
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LANGAN.COM\DATA\YDATA2\170381202\PROJECT DATA\ DISCIPLINE\ENVIRONMENTAL\GINTLOGS\170381202 ENTERPRISE LH UPDATED TM GPJ ... 1/25/2021 8:42:33 AM ... Report: Log - LANGAN

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr. resist BL/ft	Jerome (ug/m ³)		XRF (ppm)
		R1A (0"-24"): Grey to reddish brown fine SAND, some fine gravel, some medium sand, brick, concrete (dry) [FILL]		0							
			0.0							<LOD	
			0.0	1							Collected SB33_0-2.
			0.0							<LOD	
			0.0	2	R1	MACROCORE	24/48				
				3							
				4							
				5							
				6	R2	MACROCORE	25/48			<LOD	
				7						<LOD	
		R2A (23"-48"): Brownish grey to reddish brown fine SAND, some fine gravel, some medium sand, brick, concrete (dry) [FILL]		8							
			0.0								
			0.0	6						<LOD	
			0.0								
			0.0	7						<LOD	
			0.0								
				8							
				9							
				10	R3	MACROCORE	30/48			<LOD	
				11						<LOD	Petroleum-like odors from 10.5 to 14 feet below grade surface (bgs).
		R3A (18"-48"): Brown to black fine SAND, trace silt (moist) [SP-SM]		12					<LOD	Collected SB33_11-13.	
			0.0								
			0.0	10					<LOD		
			0.0								
			2.2	11					<LOD		
			6.6	12							
				13							
				14	R4	MACROCORE	28/48		<LOD		
			0.7								
			1.5	15							
			1.6								
				16					<LOD		
			0.8								
			0.0	17					<LOD		
			0.0								
			0.0	18	R5	MACROCORE	48/48		<LOD		
			0.0								
			0.0	19					<LOD		
			0.0								
			0.0	20					<LOD	End of boring at 20 feet bgs. Monitoring well MW33 installed in borehole to 19 feet bgs with screen between 9 and 19 feet bgs.	

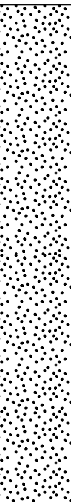

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Project 250 Water Street				Project No. 170381202			
Location 250 Water Street				Elevation and Datum N/A			
Drilling Company AARCO Environmental Services, Corp.				Date Started 8/25/20		Date Finished 8/25/20	
Drilling Equipment AMS Power Probe 9580-VTR				Completion Depth 20 ft		Rock Depth N/A	
Size and Type of Bit 2-inch diameter closed point macro core				Number of Samples 5		Undisturbed N/A	
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First ∇ 11		Completion ∇ N/A	
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Rohn Dixon	
Sampler 4-foot long acetate liner				Field Engineer Tyler Zorn			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BLU/in	Jerome (ug/m ³)	XRF (ppm)	
		No Recovery		0							
				1							
				2	R1	MACROCORE	0/48				
				3							
				4							
				5							
		R2A (26"-48"): Reddish brown to dark brown fine SAND, some gravel, some silt, brick, concrete (dry) [FILL]		6	R2	MACROCORE	22/48			<LOD	Collected SB34_4-6.
				7						<LOD	
		R3A (0"-32"): Reddish brown to greenish brown fine SAND, some gravel, some silt, brick, concrete (dry) [FILL]		8							
				9						<LOD	
				10	R3	MACROCORE	48/48				
				11						<LOD	Collected SB34_10-12.
		R3B (32"-48"): Brown to grey fine SAND, trace medium sand (wet) [SP]		12							
				13						<LOD	Collected SB34_12-14.
		R4A (4"-48"): Light brown to grey fine SAND, some medium sand (wet) [SP]		14	R4	MACROCORE	44/48			<LOD	
				15							Petroleum-like odors from 14 to 16 feet below grade surface (bgs).
				16							
				17							
				18	R5	MACROCORE	13/48			<LOD	Collected SB34_18-20.
				19							End of boring at 20 feet bgs. Monitoring well MW34 installed in borehole to 19 feet bgs with screen between 9 and 19 feet bgs.
		R5A (35"-48"): Grey fine SAND, some medium sand (wet) [SP]		20						<LOD	

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Project 250 Water Street				Project No. 170381202																																																																																																																																																																																																																																																									
Location 250 Water Street				Elevation and Datum N/A																																																																																																																																																																																																																																																									
Drilling Company AARCO Environmental Services, Corp.				Date Started 8/25/20		Date Finished 8/25/20																																																																																																																																																																																																																																																							
Drilling Equipment AMS Power Probe 9580-VTR				Completion Depth 28 ft		Rock Depth N/A																																																																																																																																																																																																																																																							
Size and Type of Bit 2-inch diameter closed point macro core				Number of Samples 7		Disturbed N/A																																																																																																																																																																																																																																																							
Casing Diameter (in) N/A				Casing Depth (ft) N/A		Core N/A																																																																																																																																																																																																																																																							
Casing Hammer N/A				Weight (lbs) N/A		Drop (in) N/A																																																																																																																																																																																																																																																							
Sampler 4-foot long acetate liner				Drilling Foreman Rohn Dixon																																																																																																																																																																																																																																																									
Sampler Hammer N/A				Field Engineer Tyler Zorn																																																																																																																																																																																																																																																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">MATERIAL SYMBOL</th> <th rowspan="2">Elev. (ft)</th> <th rowspan="2">Sample Description</th> <th rowspan="2">PID (ppm)</th> <th rowspan="2">Depth Scale</th> <th colspan="6">Sample Data</th> <th rowspan="2">Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)</th> </tr> <tr> <th>Number</th> <th>Type</th> <th>Recov. (in)</th> <th>Penetr. resist</th> <th>BLU6in</th> <th>Jerome (ug/m³)</th> <th>XRF (ppm)</th> </tr> </thead> <tbody> <tr> <td rowspan="5" style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px);"></td> <td></td> <td>R1A (0"-26"): Reddish brown to grey fine SAND, some fine gravel, brick, asphalt, concrete (dry) [FILL]</td> <td>0.0</td> <td>0</td> <td rowspan="5">R1</td> <td rowspan="5">MACROCORE</td> <td rowspan="5">26/48</td> <td rowspan="5"></td> <td rowspan="5"></td> <td rowspan="5"></td> <td><LOD</td> <td rowspan="5">Collected SB35_0-2.</td> </tr> <tr><td></td><td></td><td>0.0</td><td>1</td><td><LOD</td></tr> <tr><td></td><td></td><td>0.0</td><td>2</td><td><LOD</td></tr> <tr><td></td><td></td><td>0.0</td><td>3</td><td></td></tr> <tr><td></td><td></td><td>0.0</td><td>4</td><td></td></tr> <tr> <td rowspan="5" style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px);"></td> <td></td> <td>R2A (30"-41"): Reddish brown to grey fine SAND, some fine gravel, brick, concrete (dry) [FILL]</td> <td>0.0</td> <td>5</td> <td rowspan="5">R2</td> <td rowspan="5">MACROCORE</td> <td rowspan="5">18/48</td> <td rowspan="5"></td> <td rowspan="5"></td> <td rowspan="5"></td> <td><LOD</td> <td rowspan="5">Collected SB35_8-10.</td> </tr> <tr><td></td><td></td><td>0.0</td><td>6</td><td></td></tr> <tr><td></td><td></td><td>0.0</td><td>7</td><td></td></tr> <tr><td></td><td></td><td>0.0</td><td>8</td><td></td></tr> <tr><td></td><td></td><td>6.0</td><td>9</td><td></td></tr> <tr> <td rowspan="5" style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px);"></td> <td></td> <td>R3B (18"-48"): Timber</td> <td>12.0</td> <td>10</td> <td rowspan="5">R3</td> <td rowspan="5">MACROCORE</td> <td rowspan="5">46/48</td> <td rowspan="5"></td> <td rowspan="5"></td> <td rowspan="5"></td> <td><LOD</td> <td rowspan="5">Creosote-like odors from 9 to 15 feet below grade surface (bgs).</td> </tr> <tr><td></td><td></td><td>21.0</td><td>11</td><td></td></tr> <tr><td></td><td></td><td>5.0</td><td>12</td><td></td></tr> <tr><td></td><td></td><td>4.0</td><td>13</td><td></td></tr> <tr><td></td><td></td><td>3.0</td><td>14</td><td></td></tr> <tr> <td rowspan="5" style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px);"></td> <td></td> <td>R4A (16"-34"): Timber</td> <td>15.3</td> <td>15</td> <td rowspan="5">R4</td> <td rowspan="5">MACROCORE</td> <td rowspan="5">32/48</td> <td rowspan="5"></td> <td rowspan="5"></td> <td rowspan="5"></td> <td><LOD</td> </tr> <tr><td></td><td></td><td>20.0</td><td>16</td><td></td></tr> <tr><td></td><td></td><td>18.0</td><td>17</td><td></td></tr> <tr><td></td><td></td><td>3.0</td><td>18</td><td></td></tr> <tr><td></td><td></td><td>0.8</td><td>19</td><td></td></tr> <tr> <td rowspan="5" style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px);"></td> <td></td> <td>R4B (34"-48"): Light brown to grey fine SAND, some wood, trace medium sand (wet) [SP]</td> <td>0.8</td> <td>20</td> <td rowspan="5">R5</td> <td rowspan="5">MACROCORE</td> <td rowspan="5">48/48</td> <td rowspan="5"></td> <td rowspan="5"></td> <td rowspan="5"></td> <td><LOD</td> </tr> <tr><td></td><td></td><td>0.8</td><td>21</td><td></td></tr> <tr><td></td><td></td><td>6.5</td><td>22</td><td></td></tr> <tr><td></td><td></td><td>5.0</td><td>23</td><td></td></tr> <tr><td></td><td></td><td>2.8</td><td>24</td><td></td></tr> <tr> <td rowspan="5" style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px);"></td> <td></td> <td>R5A (0"-42"): Light brown to grey fine SAND, trace medium sand (wet) [SP]</td> <td>0.8</td> <td>25</td> <td rowspan="5">R5</td> <td rowspan="5">MACROCORE</td> <td rowspan="5">48/48</td> <td rowspan="5"></td> <td rowspan="5"></td> <td rowspan="5"></td> <td><LOD</td> </tr> <tr><td></td><td></td><td>0.8</td><td>26</td><td></td></tr> <tr><td></td><td></td><td>6.5</td><td>27</td><td></td></tr> <tr><td></td><td></td><td>5.0</td><td>28</td><td></td></tr> <tr><td></td><td></td><td>2.8</td><td>29</td><td></td></tr> <tr> <td rowspan="5" style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px);"></td> <td></td> <td>R5B (42"-48"): Light brown to grey fine SAND, some medium sand (wet) [SP]</td> <td>0.8</td> <td>30</td> <td rowspan="5">R5</td> <td rowspan="5">MACROCORE</td> <td rowspan="5">48/48</td> <td rowspan="5"></td> <td rowspan="5"></td> <td rowspan="5"></td> <td><LOD</td> </tr> <tr><td></td><td></td><td>0.8</td><td>31</td><td></td></tr> <tr><td></td><td></td><td>6.5</td><td>32</td><td></td></tr> <tr><td></td><td></td><td>5.0</td><td>33</td><td></td></tr> <tr><td></td><td></td><td>2.8</td><td>34</td><td></td></tr> </tbody> </table>								MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	Number	Type	Recov. (in)	Penetr. resist	BLU6in	Jerome (ug/m ³)	XRF (ppm)			R1A (0"-26"): Reddish brown to grey fine SAND, some fine gravel, brick, asphalt, concrete (dry) [FILL]	0.0	0	R1	MACROCORE	26/48				<LOD	Collected SB35_0-2.			0.0	1	<LOD			0.0	2	<LOD			0.0	3				0.0	4				R2A (30"-41"): Reddish brown to grey fine SAND, some fine gravel, brick, concrete (dry) [FILL]	0.0	5	R2	MACROCORE	18/48				<LOD	Collected SB35_8-10.			0.0	6				0.0	7				0.0	8				6.0	9				R3B (18"-48"): Timber	12.0	10	R3	MACROCORE	46/48				<LOD	Creosote-like odors from 9 to 15 feet below grade surface (bgs).			21.0	11				5.0	12				4.0	13				3.0	14				R4A (16"-34"): Timber	15.3	15	R4	MACROCORE	32/48				<LOD			20.0	16				18.0	17				3.0	18				0.8	19				R4B (34"-48"): Light brown to grey fine SAND, some wood, trace medium sand (wet) [SP]	0.8	20	R5	MACROCORE	48/48				<LOD			0.8	21				6.5	22				5.0	23				2.8	24				R5A (0"-42"): Light brown to grey fine SAND, trace medium sand (wet) [SP]	0.8	25	R5	MACROCORE	48/48				<LOD			0.8	26				6.5	27				5.0	28				2.8	29				R5B (42"-48"): Light brown to grey fine SAND, some medium sand (wet) [SP]	0.8	30	R5	MACROCORE	48/48				<LOD			0.8	31				6.5	32				5.0	33				2.8	34	
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data								Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)																																																																																																																																																																																																																																																
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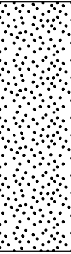
Project				Project No.							
250 Water Street				170381202							
Location				Elevation and Datum							
250 Water Street				N/A							
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr. resist. BL/6in	Jerome (ug/m ³)		XRF (ppm)
		R6A (0"-48"): Brown fine SAND, some medium sand (wet) [SP]	0.3	20	R6	MACROCORE	48/48			<LOD	
			0.4	21						<LOD	
			1.5	22						<LOD	
			1.5	23						<LOD	
			4.7	24						<LOD	
			1.4	25	R7	MACROCORE	18/48				Collected SB35_26-28.
			3.3	26							
			0.0	27						<LOD	
			0.0	28							
			0.0	29							
		R7A (30-48"): Brown fine SAND, some medium snad (wet) [SP]		30							End of boring at 28 feet bgs (refusal). Borehole backfilled with soil cuttings and clean sand to grade and sealed with concrete.
				31							
				32							
				33							
				34							
				35							
				36							
				37							
				38							
				39							
				40							
				41							
				42							
				43							
				44							
				45							

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Project 250 Water Street				Project No. 170381202								
Location 250 Water Street				Elevation and Datum N/A								
Drilling Company AARCO Environmental Services, Corp.				Date Started 8/24/20		Date Finished 8/24/20						
Drilling Equipment AMS Power Probe 9580-VTR				Completion Depth 24 ft		Rock Depth N/A						
Size and Type of Bit 2-inch diameter closed point macro core				Number of Samples 6		Undisturbed N/A						
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 16		Completion N/A						
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Rohn Dixon						
Sampler 4-foot long acetate liner				Field Engineer Lexi Haley								
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A								
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr. resist. BLU/in	Jerome (ug/m ³)	XRF (ppm)		
		R1A (0"-35"): Light brown to black fine SAND, some fine gravel, trace medium sand, brick, concrete, glass (dry) [FILL]	0.0	0	R1	MACROCORE	35/48			<LOD	Collected SB36_0-2.	
			0.2	1								
			0.7	1								
			4.7	2								
			3.5	2	R2	MACROCORE	46/48			<LOD	Collected SB36_2-4.	
			26.2	3								
				4								
		R2A (2"-14"): Black fine SAND, some fine gravel, brick, concrete, lumber (dry) [FILL]	3.2	4								
			4.2	5								
		R2B (14"-26"): Concrete	4.0	5								
			4.2	6								
		R2C (26"-32"): Reddish brown to black fine SAND, some fine gravel, brick, concrete, lumber (dry) [FILL]	1.8	6								
			0.7	7	R3	MACROCORE	18/48			<LOD	Petroleum-like odors from 2 to 6 feet below grade surface (bgs).	
		R2D (32"-36"): Concrete	0.3	7								
		R2E (36"-48"): Light brown to dark brown fine SAND, some fine gravel, concrete, wood, brick, glass (dry) [FILL]	0.2	8								
				9								
				10	R4	MACROCORE	18/48			<LOD	Collected SB36_16-18.	
		R3A (30"-48"): Light brown to grey fine SAND, some fine gravel, brick, concrete (dry) [FILL]	0.2	11								
			0.0	12								
				13								
				14	R5	MACROCORE	46/48			<LOD	Petroleum-like odors from 17 to 22 feet bgs	
		R4A (30"-48"): Light grey to dark brown fine SAND, some fine gravel, lumber (moist) [FILL]	3.2	15								
			4.0	16								
			0.7	17								
				17.9						<LOD		
				7.4								18
				3.0								19
				5.7	19							
		R5A (2"-48"): Brown to grey fine SAND, trace fine gravel, trace medium sand (wet) [SP]		20								

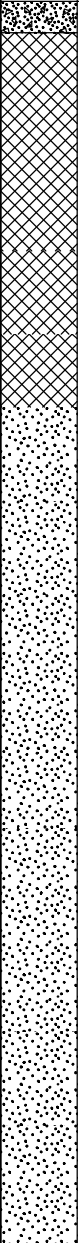
Project	250 Water Street	Project No.	170381202
Location	250 Water Street	Elevation and Datum	N/A

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BL/ft	Jerome (ug/m ³)	XRF (ppm)	
		R6A (0"-48"): Brown to grey fine SAND, some medium sand (wet) [SP]		20	R6	MACROCORE	48/48			<LOD	Collected SB36_22-24.
			3.3	21							
			8.0	22							
			2.6	23							
			5.7	24							
			3.6	25							
			1.3	26							
				27							
				28							
				29							
				30							End of boring at 24 feet bgs. Borehole backfilled with soil cuttings and clean sand to grade and sealed with concrete.
				31							
				32							
				33							
				34							
				35							
				36							
				37							
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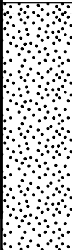

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Project					Project No.								
250 Water Street					170381202								
Location					Elevation and Datum								
250 Water Street					N/A								
Drilling Company					Date Started			Date Finished					
AARCO Environmental Services, Corp.					8/20/20			8/20/20					
Drilling Equipment					Completion Depth			Rock Depth					
Geoprobe 7822 DT					20 ft			N/A					
Size and Type of Bit					Number of Samples		Disturbed		Undisturbed		Core		
2-inch diameter closed point macro core					5		N/A		N/A		N/A		
Casing Diameter (in)				Casing Depth (ft)		Water Level (ft.)		First		Completion		24 HR.	
N/A				N/A		∇ 14		\blacktriangledown N/A		\blacktriangledown N/A		\blacktriangledown N/A	
Casing Hammer			Weight (lbs)		Drop (in)		Drilling Foreman						
N/A			N/A		N/A		Rohn Dixon						
Sampler							Field Engineer						
4-foot long acetate liner							Tyler Zorn						
Sampler Hammer			Weight (lbs)		Drop (in)								
N/A			N/A		N/A								
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)		
					Number	Type	Recov. (in)	Penetr. resist. BLU/in	Jerome (ug/m ³)	XRF (ppm)			
		R1A (0"-12"): Dark grey to black medium SAND, concrete, asphalt (dry) [FILL]	0.0	0	R1	MACROCORE	26/48			<LOD	Collected SB37_2-4.		
		R1B (12"-26"): Reddish brown fine SAND, some medium sand, trace fine gravel, trace silt, brick (moist) [FILL]	0.0	1						<LOD			
			0.0	2						<LOD			
			0.0	3						<LOD			
				4	R2	MACROCORE	16/48			<LOD	Collected SB37_6-8.		
				5									
				6									
				7									
			R2A (32"-48"): Light tan to reddish brown fine SAND, some fine gravel, trace medium sand, trace silt, brick (moist) [FILL]	0.0	8	R3	MACROCORE	28/48			<LOD	Collected SB37_12-14.	
				9									
				10									
				11									
				12	R4	MACROCORE	38/48			<LOD	End of boring at 20 feet below grade surface. Borehole backfilled with soil cuttings and clean sand to grade and sealed with concrete.		
			R3B (42"-48"): Brown to grey fine SAND, some medium sand, trace silt (mosit) [SP-SM]	0.0								13	
			R4A (10"-48"): Brown to grey fine SAND, some medium sand, trace silt (wet) [SP-SM]	0.0								14	
				0.0								15	
				0.0	16	R5	MACROCORE	48/48			<LOD		
				0.0	17								
				0.0	18								
				0.0	19								
			0.0	20						<LOD			


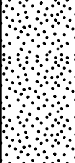
Project	250 Water Street	Project No.	170381202
Location	250 Water Street	Elevation and Datum	N/A
Drilling Company	AARCO Environmental Services, Corp.	Date Started	8/3/20
Drilling Equipment	Geoprobe 7822 DT	Date Finished	8/3/20
Size and Type of Bit	2-inch diameter closed point macro core	Completion Depth	24 ft
Casing Diameter (in)	N/A	Disturbed	6
Casing Depth (ft)	N/A	Undisturbed	N/A
Casing Hammer	N/A	Core	N/A
Weight (lbs)	N/A	Number of Samples	6
Drop (in)	N/A	First	17.5
Water Level (ft.)	N/A	Completion	N/A
Drilling Foreman	Sergio Magana	24 HR.	N/A
Field Engineer	Adrian Heath		

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr. resist	BLU/in	Jerome (ug/m ³)		XRF (ppm)
		Concrete	0.0	0								Collected SB38_0-2.

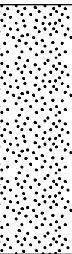

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Project				Project No.							
250 Water Street				170381202							
Location				Elevation and Datum							
250 Water Street				N/A							
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BL/6in	Jerome (ug/m³)	XRF (ppm)	
		R6A (0"-23"): Brown fine SAND, trace medium sand (wet) [SP]	0.0	20	R6	MACROCORE	46/48		0.39	<LOD	Collected SB38_22-24.
			0.0	21							
	0.0	22									
	0.0	23									
	0.0	24									
	0.0	25									
	0.0	26									
	0.0	27									
		R6B (25"-48"): Brown fine SAND, trace clay (wet)	0.0	24					0.05	<LOD	End of boring at 24 feet below grade surface. Borehole backfilled with soil cuttings and clean sand to grade and sealed with concrete.
				25							
				26							
				27							
				28							
				29							
				30							
				31							
				32							
				33							
				34							
				35							
				36							
				37							
				38							
				39							
				40							
				41							
				42							
				43							
				44							
				45							

Project	250 Water Street	Project No.	170381202
Location	250 Water Street	Elevation and Datum	N/A
Drilling Company	AARCO Environmental Services, Corp.	Date Started	8/3/20
Drilling Equipment	Geoprobe 7822 DT	Date Finished	8/3/20
Size and Type of Bit	2-inch diameter closed point macro core	Completion Depth	24 ft
Casing Diameter (in)	N/A	Number of Samples	6
Casing Depth (ft)	N/A	Disturbed	6
Casing Hammer	N/A	Undisturbed	N/A
Weight (lbs)	N/A	Core	N/A
Drop (in)	N/A	Water Level (ft.)	First 17.5
Sampler	4-foot long acetate liner	Completion	N/A
Sampler Hammer	N/A	24 HR.	N/A
Weight (lbs)	N/A	Drilling Foreman	Sergio Magana
Drop (in)	N/A	Field Engineer	Adrian Heath

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist BLU/in	Jerome (ug/m ³)	XRF (ppm)	
		Asphalt	0.0	0							
		R1A (3"-48"): Brown fine SAND, trace coarse sand, trace medium sand, brick, ceramics (dry) [FILL]	0.0	0							
			0.0	1							Collected SB39_0-2.
			0.0	2	R1	MACROCORE	48/48		0.27	<LOD	
			0.0	3							
			0.0	4					0.19	<LOD	
		R2A (0"-27"): Brown fine SAND, trace coarse sand, trace medium sand, brick, ceramics (dry) [FILL]	0.0	5							
			0.0	6	R2	MACROCORE	27/48		0.40	<LOD	
			0.0	7							
			0.0	8					0.57	22.0	
		R3A (0"-28"): Brown fine SAND, trace coarse sand, trace medium sand, brick, ceramics (dry) [FILL]	0.0	9							Collected SB39_8-10.
			0.0	10	R3	MACROCORE	28/48		0.29	24.0	
			0.0	11							
			0.0	12					0.21	<LOD	
		R4A (0"-24"): Brown fine SAND, trace coarse sand, trace medium sand, brick, ceramics (dry) [FILL]	0.0	13							
			0.0	14	R4	MACROCORE	24/48		0.36	<LOD	
			0.0	15							
		R5A (0"-9"): Brown fine SAND, trace coarse sand, trace medium sand, brick, ceramics (dry) [FILL]	0.0	16					0.10	<LOD	
		R5B (9"-20"): Brown fine SAND, some medium sand, trace coarse sand (wet) [SP]	0.0	17							
			0.0	18	R5	MACROCORE	42/48		0.12	<LOD	
		R5C (20"-42"): Brown fine SAND, trace medium sand, trace silt (wet)	0.0	19							Collected SB39_18-20.
			0.0	20							

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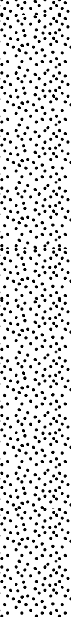
Project			Project No.								
250 Water Street			170381202								
Location			Elevation and Datum								
250 Water Street			N/A								
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr. resist. BL/6in	Jerome (ug/m³)		XRF (ppm)
		R6A (0"-48"): Brown fine SAND, some medium sand, trace coarse sand (wet) [SP]	0.0	20	R6	MACROCORE	48/48		0.05	<LOD	Collected SB39_22-24.
	0.0		21	0.28					<LOD		
	0.0		22								
	0.0		23								
	0.0		24	0.00					<LOD		
	0.0		25								
	0.0		26								
	0.0		27								
	0.0		28								
	0.0		29								
				30						End of boring at 24 feet below grade surface. Borehole backfilled with soil cuttings and clean sand to grade and sealed with concrete.	
			31								
			32								
			33								
			34								
			35								
			36								
			37								
			38								
			39								
			40								
			41								
			42								
			43								
			44								
			45								

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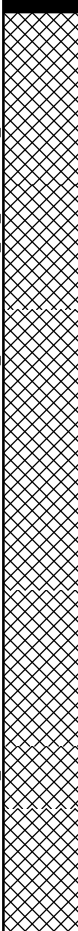
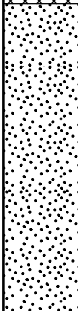
Project 250 Water Street				Project No. 170381202			
Location 250 Water Street				Elevation and Datum N/A			
Drilling Company AARCO Environmental Services, Corp.				Date Started 7/27/20		Date Finished 7/27/20	
Drilling Equipment Geoprobe 7822 DT				Completion Depth 30 ft		Rock Depth N/A	
Size and Type of Bit 2-inch diameter closed point macro core				Number of Samples 8		Disturbed N/A	
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 15		Undisturbed N/A	
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Core N/A	
Sampler 4-foot long acetate liner				Drilling Foreman Nick Turro			
Sampler Hammer N/A				Field Engineer Ashley Stappenbeck			
Weight (lbs) N/A		Drop (in) N/A					

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BLU/in	Jerome (ug/m ³)	XRF (ppm)	
		Asphalt		0.0	0						
		R1A (3"-35"): Brown fine SAND, trace coarse sand, brick, coal, ceramics (dry) [FILL]		0.0							
				0.0	1						
				0.0	2	R1	MACROCORE	35/48	0.41	<LOD	
				0.0	3				2.48	<LOD	
				0.0	4						
				0.0	5						
				0.0	6	R2	MACROCORE	18/48	0.04	<LOD	
		R2A (0"-18"): Dark brown fine SAND, trace coarse sand, brick, glass, (dry) [FILL]		0.0	7						
				0.0	8						
				0.0	9						
		R3A (0"-27"): Concrete and brick (dry) [FILL]		0.0	10	R3	MACROCORE	27/48	0.11	<LOD	
				0.0	11						
				0.0	12				0.25	<LOD	
				0.0	13						
		R4A (0"-18"): Tan to brown fine SAND, trace medium sand, trace coarse sand, coal, brick (dry) [FILL]		0.0	14	R4	MACROCORE	21/48	0.25	<LOD	
				0.0	15						
		R4B (18"-21"): Brown fine SAND, trace medium sand (wet) [SP]		0.0	16				0.08	<LOD	
				0.0	17						
		R5A (0"-33"): Greyish brown fine SAND, trace medium sand, trace coarse sand (wet) [SP]		0.0	18	R5	MACROCORE	33/48	0.07	<LOD	
				0.0	19						
				0.0	20						

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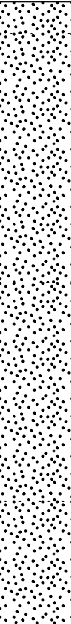
Project			Project No.								
250 Water Street			170381202								
Location			Elevation and Datum								
250 Water Street			N/A								
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BL/6in	Jerome (ug/m ³)	XRF (ppm)	
		R6A (0"-45"): Greyish brown fine SAND, trace medium sand, trace coarse sand (wet) [SP]	0.0	20	R6	MACROCORE	45/48		0.08	<LOD	End of boring at 30 feet below grade surface. Borehole backfilled with soil cuttings and clean sand to grade and sealed with asphalt.
			0.0	21							
			0.0	22					0.04	<LOD	
			0.0	23							
			0.0	24							
		R7A (0"-38"): Greyish brown fine SAND, trace medium sand, trace coarse sand (wet) [SP]	0.0	25	R7	MACROCORE	38/48		0.01	<LOD	
			0.0	26							
			0.0	27					0.05	<LOD	
			0.0	28							
			0.0	29					0.11	<LOD	
			0.0	30	R8	MACROCORE	22/24				
			0.0	31							
			0.0	32							
			0.0	33							
			0.0	34							
			0.0	35							
			0.0	36							
			0.0	37							
			0.0	38							
			0.0	39							
			0.0	40							
			0.0	41							
			0.0	42							
			0.0	43							
			0.0	44							
			0.0	45							

Project	250 Water Street	Project No.	170381202
Location	250 Water Street	Elevation and Datum	N/A
Drilling Company	AARCO Environmental Services, Corp.	Date Started	7/28/20
Drilling Equipment	Geoprobe 7822 DT	Date Finished	7/28/20
Size and Type of Bit	2-inch diameter closed point macro core	Completion Depth	30 ft
Casing Diameter (in)	N/A	Disturbed	8
Casing Depth (ft)	N/A	Undisturbed	N/A
Casing Hammer	N/A	Core	N/A
Weight (lbs)	N/A	Number of Samples	8
Drop (in)	N/A	First	15
Sampler	4-foot long acetate liner	Completion	N/A
Sampler Hammer	N/A	24 HR.	N/A
Weight (lbs)	N/A	Drilling Foreman	Nick Turro
Drop (in)	N/A	Field Engineer	Ashley Stappenbeck

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist	Jerome (ug/m ³)	XRF (ppm)	
		Asphalt		0							
		R1A (0-35"): Brown fine SAND, trace medium sand, brick, glass, ceramics, concrete (dry) [FILL]		0.0							
				0.0							
				0.0							
				0.0							
				0.0							
				0.0							
				0.0							
				0.0							
				0.0							
				0.0							
				0.0							
				0.0							
				0.0							
				0.0							
				0.0							
		R2A (0-36"): Brown fine SAND, trace medium sand, brick, glass, ceramics, concrete (dry) [FILL]		0.0							
				0.0							
				0.0							
				0.0							
				0.0							
				0.0							
				0.0							
				0.0							
				0.0							
				0.0							
		R3A (0-32"): Brown fine SAND, trace medium sand, brick, glass, ceramics, concrete (dry) [FILL]		0.0							
				0.0							
				0.0							
				0.0							
				0.0							
				0.0							
				0.0							
				0.0							
				0.0							
				0.0							
		R4A (0-26"): Brown fine SAND, trace medium sand, brick, glass, ceramics, concrete (dry) [FILL]		0.0							
				0.0							
				0.0							
				0.0							
				0.0							
				0.0							
				0.0							
				0.0							
				0.0							
				0.0							
		R4B (26-38"): Brown fine SAND, some medium sand (wet) [SP]		0.0							
				0.0							
				0.0							
				0.0							
				0.0							
				0.0							
				0.0							
				0.0							
				0.0							
				0.0							
		R5A (0-28") Brown fine SAND, some medium sand (wet) [SP]		0.0							
				0.0							
				0.0							
				0.0							
				0.0							
				0.0							
				0.0							
				0.0							
				0.0							
				0.0							

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Project	250 Water Street	Project No.	170381202
Location	250 Water Street	Elevation and Datum	N/A

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BL/6in	Jerome (ug/m ³)	XRF (ppm)	
		R6A (0-44") Brown fine SAND, some medium sand (wet) [SP]	0.0	20	R6	MACROCORE	44/48		0.09	<LOD	End of boring at 30 feet below grade surface. Borehole backfilled with soil cuttings and clean sand to grade and sealed with asphalt.
			0.0	21							
			0.0	22					0.06	<LOD	
			0.0	23							
		R7A (0-40") Brown fine SAND, some medium sand (wet) [SP]	0.0	24	R7	MACROCORE	40/48		0.08	<LOD	
			0.0	25							
			0.0	26					0.06	<LOD	
			0.0	27							
		R8A (0-24") Brown fine SAND, some medium sand (wet) [SP]	0.0	28	R8	MACROCORE	24/24		0.06	<LOD	
			0.0	29					0.06	<LOD	
			0.0	30					0.02	<LOD	
				31							
				32							
				33							
				34							
				35							
				36							
				37							
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				39							
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				41							
				42							
				43							
				44							
				45							

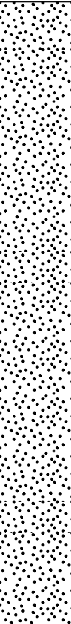
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Project 250 Water Street				Project No. 170381202			
Location 250 Water Street				Elevation and Datum N/A			
Drilling Company AARCO Environmental Services, Corp.				Date Started 7/28/20		Date Finished 7/28/20	
Drilling Equipment Geoprobe 7822 DT				Completion Depth 30 ft		Rock Depth N/A	
Size and Type of Bit 2-inch diameter closed point macro core				Number of Samples 8		Disturbed N/A	
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First ∇ 18		Undisturbed Completion ∇ N/A	
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Nick Turro	
Sampler 4-foot long acetate liner				Field Engineer Ashley Stappenbeck			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist	Jerome (ug/m ³)	XRF (ppm)	
		Asphalt		0							
		R1A (0-34"): Dark brown fine SAND, trace coarse sand, brick, coal, concrete (dry) [FILL]		0.0							
			0.0	1							
			0.0	2	R1	MACROCORE	34/48		0.23	63.0	
			0.0	3					0.00	<LOD	
			0.0	4							
		R2A (0-3"): Dark brown fine SAND, trace coarse sand, brick, coal, concrete (dry) [FILL]		5							
		R2B (3-10"): Brown fine SAND, trace silt (dry)		6	R2	MACROCORE	30/48		0.06	<LOD	
		R2C (10-30"): Brown fine SAND, trace medium sand (dry) [SP]		7							
			0.0	8					0.00	<LOD	
			0.0	9							
		R3A (0-34"): Brown fine SAND, some medium sand (dry) [SP]		10	R3	MACROCORE	34/48		0.08	<LOD	
			0.0	11							
			0.0	12					0.02	<LOD	
			0.0	13							
		R4A (0-24"): Brown fine SAND, some medium sand (dry) [SP]		14	R4	MACROCORE	28/48		0.00	<LOD	
			0.0	15							
			0.0	16					0.00	<LOD	
		R5A (0-24") Brown fine SAND, some medium sand (dry) [SP]		17							
			0.0	18	R5	MACROCORE	44/48		0.06	<LOD	
		0.0	19								
		0.0	20								

Project	250 Water Street	Project No.	170381202
Location	250 Water Street	Elevation and Datum	N/A

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BL/6in	Jerome (ug/m ³)	XRF (ppm)	
		R6A (0-39") Brown fine SAND, some medium sand, trace coarse sand (wet) [SP]		20	R6	MACROCORE	39/48		0.00	<LOD	
				21							
				22					0.02	<LOD	
				23							
		R7A (0-42") Brown fine SAND, trace medium sand, trace coarse sand (wet) [SP]		24	R7	MACROCORE	42/48		0.00	0.1	
				25							
				26					0.07	<LOD	
				27							
		R8A (0-20") Brown fine SAND, trace medium sand, trace coarse sand (wet) [SP]		28	R8	MACROCORE	20/24		0.00	<LOD	
				29							
				30					0.00	<LOD	
				31							End of boring at 30 feet below grade surface. Borehole backfilled with soil cuttings and clean sand to grade and sealed with asphalt.
				32							
				33							
				34							
				35							
				36							
				37							
				38							
				39							
				40							
				41							
				42							
				43							
				44							
				45							

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Project 250 Water Street				Project No. 170381202																																																																																																																																																																																																																																													
Location 250 Water Street				Elevation and Datum N/A																																																																																																																																																																																																																																													
Drilling Company AARCO Environmental Services, Corp.				Date Started 8/26/20		Date Finished 8/26/20																																																																																																																																																																																																																																											
Drilling Equipment AMS Power Probe 9580-VTR				Completion Depth 12 ft		Rock Depth N/A																																																																																																																																																																																																																																											
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Sampler Hammer N/A				Field Engineer Tyler Zorn																																																																																																																																																																																																																																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">MATERIAL SYMBOL</th> <th rowspan="2">Elev. (ft)</th> <th rowspan="2">Sample Description</th> <th rowspan="2">PID (ppm)</th> <th rowspan="2">Depth Scale</th> <th colspan="6">Sample Data</th> <th rowspan="2">Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)</th> </tr> <tr> <th>Number</th> <th>Type</th> <th>Recov. (in)</th> <th>Penetr. resist</th> <th>BLU/in</th> <th>Jerome (ug/m³)</th> <th>XRF (ppm)</th> </tr> </thead> <tbody> <tr> <td rowspan="12" style="background-image: linear-gradient(to bottom, repeating-linear-gradient(4px, transparent, transparent 2px, black 2px, black 4px), repeating-linear-gradient(4px, transparent, transparent 2px, black 2px, black 4px)); background-size: 10px 10px;"></td> <td>0.0</td> <td rowspan="4">R1A (0"-28"): Reddish brown to grey fine SAND, some fine gravel, trace medium sand, brick, concrete (dry) [FILL]</td> <td rowspan="4"></td> <td>0</td> <td rowspan="4">R1</td> <td rowspan="4">MACROCORE</td> <td rowspan="4">28/48</td> <td rowspan="4"></td> <td rowspan="4"></td> <td rowspan="4"></td> <td rowspan="4"></td> <td rowspan="4"></td> </tr> <tr><td>0.0</td></tr> <tr><td>0.0</td></tr> <tr><td>0.0</td></tr> <tr> <td>0.0</td> <td rowspan="4">R2A (26"-48"): Light brown to brown fine SAND, some medium sand (moist) [SP]</td> <td rowspan="4"></td> <td>4</td> <td rowspan="4">R2</td> <td rowspan="4">MACROCORE</td> <td rowspan="4">22/48</td> <td rowspan="4"></td> <td rowspan="4"></td> <td rowspan="4"></td> <td rowspan="4"></td> </tr> <tr><td>0.0</td></tr> <tr><td>0.0</td></tr> <tr><td>0.0</td></tr> <tr> <td>0.0</td> <td rowspan="4">R3A (14"-48"): Light brown to brown fine SAND, some medium sand (moist) [SP]</td> <td rowspan="4"></td> <td>8</td> <td rowspan="4">R3</td> <td rowspan="4">MACROCORE</td> <td rowspan="4">34/48</td> <td rowspan="4"></td> <td rowspan="4"></td> <td rowspan="4"></td> <td rowspan="4"></td> </tr> <tr><td>0.0</td></tr> <tr><td>0.0</td></tr> <tr><td>0.0</td></tr> <tr> <td>0.0</td> <td rowspan="8"></td> <td rowspan="8"></td> <td rowspan="8"></td> <td>12</td> <td rowspan="8"></td> <td rowspan="8"></td> <td rowspan="8"></td> <td rowspan="8"></td> <td rowspan="8"></td> <td rowspan="8"></td> <td rowspan="8"></td> </tr> <tr><td>0.0</td></tr> <tr><td>0.0</td></tr> <tr><td>0.0</td></tr> <tr><td>0.0</td></tr> <tr><td>0.0</td></tr> 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(ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	Number	Type	Recov. (in)	Penetr. resist	BLU/in	Jerome (ug/m ³)	XRF (ppm)		0.0	R1A (0"-28"): Reddish brown to grey fine SAND, some fine gravel, trace medium sand, brick, concrete (dry) [FILL]		0	R1	MACROCORE	28/48						0.0	0.0	0.0	0.0	R2A (26"-48"): Light brown to brown fine SAND, some medium sand (moist) [SP]		4	R2	MACROCORE	22/48					0.0	0.0	0.0	0.0	R3A (14"-48"): Light brown to brown fine SAND, some medium sand (moist) [SP]		8	R3	MACROCORE	34/48					0.0	0.0	0.0	0.0				12								0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				13								0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				14								0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				15								0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				16								0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				17								0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				18								0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				19								0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				20								0.0	0.0	0.0	0.0	0.0	0.0	0.0
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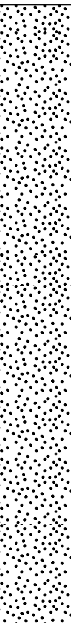
End of boring at 12 feet below grade surface. Borehole backfilled with soil cuttings and clean sand to grade and sealed with concrete.

Project					Project No.						
250 Water Street					170381202						
Location					Elevation and Datum						
250 Water Street					N/A						
Drilling Company					Date Started			Date Finished			
AARCO Environmental Services, Corp.					8/26/20			8/26/20			
Drilling Equipment					Completion Depth			Rock Depth			
AMS Power Probe 9580-VTR					16 ft			N/A			
Size and Type of Bit					Number of Samples		Disturbed		Undisturbed	Core	
2-inch diameter closed point macro core					4		N/A		N/A	N/A	
Casing Diameter (in)				Casing Depth (ft)		Water Level (ft.)		First		Completion	24 HR.
N/A				N/A		12		N/A		N/A	N/A
Casing Hammer			Weight (lbs)		Drop (in)		Drilling Foreman				
N/A			N/A		N/A		Rohn Dixon				
Sampler					Field Engineer						
4-foot long acetate liner					Tyler Zorn						
Sampler Hammer			Weight (lbs)		Drop (in)						
N/A			N/A		N/A						
Sample Data											
Remarks											
(Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)											
PID (ppm)											
Depth Scale											
Number											
Type											
Recov. (in)											
Penetr. resist. BL/in											
Jerome (ug/m ³)											
XRF (ppm)											
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Project					Project No.					
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Location					Elevation and Datum					
250 Water Street					N/A					
Drilling Company					Date Started			Date Finished		
AARCO Environmental Services, Corp.					8/26/20			8/26/20		
Drilling Equipment					Completion Depth			Rock Depth		
AMS Power Probe 9580-VTR					16 ft			N/A		
Size and Type of Bit					Number of Samples		Disturbed		Undisturbed	Core
2-inch diameter closed point macro core					4		N/A		N/A	N/A
Casing Diameter (in)				Casing Depth (ft)		Water Level (ft.)		First		Completion
N/A				N/A		N/A		N/A		24 HR. N/A
Casing Hammer			Weight (lbs)		Drop (in)		Drilling Foreman			
N/A			N/A		N/A		Rohn Dixon			
Sampler					Field Engineer					
4-foot long acetate liner					Lexi Haley					
Sampler Hammer			Weight (lbs)		Drop (in)					
N/A			N/A		N/A					
Sample Data										
Remarks										
(Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)										
End of boring at 16 feet below grade surface. Borehole backfilled with soil cuttings and clean sand to grade and sealed with concrete.										

Project 250 Water Street				Project No. 170381202																																																																																																																																																											
Location 250 Water Street				Elevation and Datum N/A																																																																																																																																																											
Drilling Company AARCO Environmental Services, Corp.				Date Started 7/27/20		Date Finished 7/27/20																																																																																																																																																									
Drilling Equipment Geoprobe 7822 DT				Completion Depth 30 ft		Rock Depth N/A																																																																																																																																																									
Size and Type of Bit 2-inch diameter closed point macro core				Number of Samples 8		Disturbed N/A																																																																																																																																																									
Casing Diameter (in) N/A				Casing Depth (ft) N/A		Core N/A																																																																																																																																																									
Casing Hammer N/A				Weight (lbs) N/A		Drop (in) N/A																																																																																																																																																									
Sampler 4-foot long acetate liner				Drilling Foreman Nick Turro																																																																																																																																																											
Sampler Hammer N/A				Field Engineer Ashley Stappenbeck																																																																																																																																																											
<table border="1"> <thead> <tr> <th rowspan="2">MATERIAL SYMBOL</th> <th rowspan="2">Elev. (ft)</th> <th rowspan="2">Sample Description</th> <th rowspan="2">PID (ppm)</th> <th rowspan="2">Depth Scale</th> <th colspan="6">Sample Data</th> <th rowspan="2">Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)</th> </tr> <tr> <th>Number</th> <th>Type</th> <th>Recov. (in)</th> <th>Penetr. resist. (psi)</th> <th>Jerome (ug/m³)</th> <th>XRF (ppm)</th> </tr> </thead> <tbody> <tr> <td rowspan="12"></td> <td></td> <td>Asphalt</td> <td>317</td> <td>0</td> <td rowspan="4">R1</td> <td rowspan="4">MACROCORE</td> <td rowspan="4">40/48</td> <td rowspan="4"></td> <td rowspan="4"></td> <td rowspan="4">0.00</td> <td rowspan="4">0.43</td> <td rowspan="12">Gold and rust colored flecks</td> </tr> <tr> <td></td> <td>R1A (0"-40"): Brown (plus yellow and reddish brown speckles) fine SAND, trace coarse sand, brick, coal, mortar (dry) [FILL]</td> <td>287.5</td> <td>1</td> </tr> <tr> <td></td> <td></td> <td>262.7</td> <td>2</td> </tr> <tr> <td></td> <td></td> <td>473.4</td> <td>3</td> </tr> <tr> <td></td> <td></td> <td>360</td> <td>4</td> <td rowspan="4">R2</td> <td rowspan="4">MACROCORE</td> <td rowspan="4">32/48</td> <td rowspan="4"></td> <td rowspan="4"></td> <td rowspan="4">0.00</td> <td rowspan="4">1.17</td> </tr> <tr> <td></td> <td></td> <td>333.3</td> <td>5</td> </tr> <tr> <td></td> <td></td> <td>189</td> <td>6</td> </tr> <tr> <td></td> <td></td> <td>288.5</td> <td>7</td> </tr> <tr> <td></td> <td></td> <td>492.6</td> <td>8</td> <td rowspan="4">R3</td> <td rowspan="4">MACROCORE</td> <td rowspan="4">12/48</td> <td rowspan="4"></td> <td rowspan="4"></td> <td rowspan="4">0.00</td> <td rowspan="4">2.247</td> </tr> <tr> <td></td> <td></td> <td>109.6</td> <td>9</td> </tr> <tr> <td></td> <td></td> <td>498.9</td> <td>10</td> </tr> <tr> <td></td> <td></td> <td></td> <td>11</td> </tr> <tr> <td></td> <td></td> <td>R3A (0"-12"): Tan to black fine SAND, trace clay, trace silt, trace coarse sand, brick fragments (dry) [FILL]</td> <td>331.6</td> <td>12</td> <td rowspan="4">R4</td> <td rowspan="4">MACROCORE</td> <td rowspan="4">19/48</td> <td rowspan="4"></td> <td rowspan="4"></td> <td rowspan="4">0.00</td> <td rowspan="4">6.63</td> </tr> <tr> <td></td> <td></td> <td>8</td> <td>13</td> </tr> <tr> <td></td> <td></td> <td>9.3</td> <td>14</td> </tr> <tr> <td></td> <td></td> <td>291.1</td> <td>15</td> </tr> <tr> <td></td> <td></td> <td>R4A (0"-6"): Tan to black fine SAND, trace silt, trace coarse sand, brick (dry) [FILL]</td> <td>20.2</td> <td>16</td> <td rowspan="4">R5</td> <td rowspan="4">MACROCORE</td> <td rowspan="4">25/48</td> <td rowspan="4"></td> <td rowspan="4"></td> <td rowspan="4"></td> <td rowspan="4"></td> </tr> <tr> <td></td> <td></td> <td>R4B (6"-19"): Brown medium SAND, some fine sand, trace coarse sand (wet) [SP]</td> <td></td> <td>17</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>18</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>19</td> </tr> <tr> <td></td> <td></td> <td>R5A (0"-25"): Brown fine SAND, trace medium sand, trace coarse sand (wet) [SP]</td> <td></td> <td>20</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	Number	Type	Recov. (in)	Penetr. resist. (psi)	Jerome (ug/m ³)	XRF (ppm)			Asphalt	317	0	R1	MACROCORE	40/48			0.00	0.43	Gold and rust colored flecks		R1A (0"-40"): Brown (plus yellow and reddish brown speckles) fine SAND, trace coarse sand, brick, coal, mortar (dry) [FILL]	287.5	1			262.7	2			473.4	3			360	4	R2	MACROCORE	32/48			0.00	1.17			333.3	5			189	6			288.5	7			492.6	8	R3	MACROCORE	12/48			0.00	2.247			109.6	9			498.9	10				11			R3A (0"-12"): Tan to black fine SAND, trace clay, trace silt, trace coarse sand, brick fragments (dry) [FILL]	331.6	12	R4	MACROCORE	19/48			0.00	6.63			8	13			9.3	14			291.1	15			R4A (0"-6"): Tan to black fine SAND, trace silt, trace coarse sand, brick (dry) [FILL]	20.2	16	R5	MACROCORE	25/48							R4B (6"-19"): Brown medium SAND, some fine sand, trace coarse sand (wet) [SP]		17					18					19			R5A (0"-25"): Brown fine SAND, trace medium sand, trace coarse sand (wet) [SP]		20							
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












Project			250 Water Street			Project No.			170381202		
Location			250 Water Street			Elevation and Datum			N/A		
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BL/6in	Jerome (ug/m³)	XRF (ppm)	
		R6A (0"-43"): Brown fine SAND, trace medium sand, trace coarse sand (wet) [SP]		20	R6	MACROCORE	43/48				
			21								
			22								
			23								
		R7A (0"-31"): Brown fine SAND, trace medium sand, trace coarse sand (wet) [SP]		24	R7	MACROCORE	31/48				
		25									
		26									
		27									
		R8A (0"-20"): Brown fine SAND, trace medium sand, trace coarse sand (wet) [SP]		28	R8	MACROCORE	20/24				
		29									
		30									
		31									
				32							
				33							
				34							
				35							
				36							
				37							
				38							
				39							
				40							
				41							
				42							
				43							
				44							
				45							

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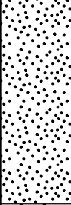

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Project 250 Water Street				Project No. 170381202			
Location 250 Water Street				Elevation and Datum N/A			
Drilling Company AARCO Environmental Services, Corp.				Date Started 7/29/20		Date Finished 7/29/20	
Drilling Equipment Geoprobe 7822 DT				Completion Depth 30 ft		Rock Depth N/A	
Size and Type of Bit 2-inch diameter closed point macro core				Number of Samples 8		Disturbed N/A	
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First ∇ 16		Undisturbed Completion ∇ N/A	
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Core 24 HR. ∇ N/A	
Sampler 4-foot long acetate liner				Drilling Foreman Nick Turro			
Sampler Hammer N/A				Field Engineer Ashley Stappenbeck			

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr. resist	Jerome (ug/m ³)	XRF (ppm)		
		Asphalt		0								
		R1A (0-38"): Dark brown fine SAND, trace coarse sand, trace medium sand, brick, coal (dry) [FILL]	0.0	1								
			0.0	2	R1	MACROCORE	41/48		0.00	<LOD		
			0.0	3								
			0.0	4					0.78	<LOD		
		R2A (0-22"): Brown fine SAND, trace medium sand, trace coarse sand, trace silt, brick (dry) [FILL]	0.0	5								
			0.0	6	R2	MACROCORE	29/48		0.88	28.0		
			0.0	7								
		R2B (22-29"): Brown fine SAND, some medium sand, trace coarse sand, brick (dry) [FILL]	0.0	8					0.44	<LOD		
			0.0	9								
		R3A (0-12"): Brown fine SAND, trace medium sand, trace coarse sand, brick (dry) [FILL]	0.0	10	R3	MACROCORE	29/48		0.76	<LOD		
			0.0	11								
		R3B (12-29"): Brown fine SAND, some medium sand (dry) [SP]	0.0	12					0.69	<LOD		
			0.0	13								
		R4A (0-23"): Brown fine SAND, some medium sand (dry) [SP]	0.0	14	R4	MACROCORE	26/48		0.27	<LOD		
			0.0	15								
	R4B (23-26"): Brown fine SAND, some medium sand (wet) [SP]	1.0	16					0.23	<LOD			
	R5A (0-22"): Grey to brown fine SAND, trace medium sand (wet) [SP]	1.2	17									
		16.2	18	R5	MACROCORE	42/48		0.00	<LOD			
	R5B (23-32"): Dark grey fine SAND, trace medim sand (wet) [SP]	18.9	19									
	R5C (32-42"): Brown fine SAND, trace medium sand (wet) [SP]	27.9	20									

Project				Project No.								
250 Water Street				170381202								
Location				Elevation and Datum								
250 Water Street				N/A								
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr. resist. BL/6in	Jerome (ug/m³)	XRF (ppm)		
		R6A (0-40"): Brown fine SAND, trace medium sand (wet) [SP]	7.7	20	R6	MACROCORE	40/48		0.12	<LOD	End of boring at 30 feet below grade surface. Borehole backfilled with soil cuttings and clean sand to grade and sealed with asphalt.	
			10									
			3.9	21								
		R7A (0-36"): Brown fine SAND, trace medium sand (wet) [SP]	0.0		R7	MACROCORE	36/48					
			0.6	22						0.00		<LOD
			0.0									
		R8A (0-24"): Brown fine SAND, trace medium sand (wet) [SP]	0.0	23	R8	MACROCORE	24/24					
			0.0									
			0.0	24						0.02		<LOD
			0.0	25	R9	MACROCORE						
			0.0									
			0.0	26						0.00		<LOD
			0.0	27	R10	MACROCORE						
			0.0									
			0.0	28						0.00		<LOD
			0.0	29	R11	MACROCORE						
			0.0									
			0.0	30						0.00		1.0
				31	R12	MACROCORE						
				32								
				33	R13	MACROCORE						
				34								
				35	R14	MACROCORE						
				36								
				37	R15	MACROCORE						
				38								
				39	R16	MACROCORE						
				40								
				41	R17	MACROCORE						
				42								
				43	R18	MACROCORE						
				44								
				45	R19	MACROCORE						

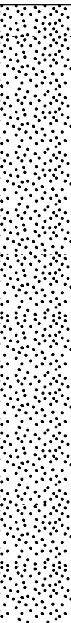
Project					Project No.						
250 Water Street					170381202						
Location					Elevation and Datum						
250 Water Street					N/A						
Drilling Company					Date Started			Date Finished			
AARCO Environmental Services, Corp.					8/26/20			8/26/20			
Drilling Equipment					Completion Depth			Rock Depth			
AMS Power Probe 9580-VTR					16 ft			N/A			
Size and Type of Bit					Number of Samples		Disturbed		Undisturbed	Core	
2-inch diameter closed point macro core							4		N/A	N/A	
Casing Diameter (in)				Casing Depth (ft)		Water Level (ft.)		First	Completion	24 HR.	
N/A				N/A		▽ 12		▽ N/A	▽ N/A		
Casing Hammer			Weight (lbs)		Drop (in)		Drilling Foreman				
N/A			N/A		N/A		Rohn Dixon				
Sampler					Field Engineer						
4-foot long acetate liner											
Sampler Hammer			Weight (lbs)		Drop (in)		Tyler Zorn				
N/A			N/A		N/A						
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist BL/6in	Jerome (ug/m³)	XRF (ppm)	
		R1A (0"-36"): Reddish brown to grey fine SAND, some fine gravel, trace medium sand, brick, concrete (dry) [FILL]	0.0	0	R1	MACROCORE	36/48			Pertroleum-like odors and staining from 14 to 16 feet below grade surface (bgs).	
		0.0	1								
		0.0	2								
		0.0	3								
		0.0	4	R2	MACROCORE	36/48					
		0.0	5								
		0.0	6								
		0.0	7								
		0.0	8	R3	MACROCORE	48/48					
		0.0	9								
		0.0	10								
		0.0	11								
		0.6	12	R4	MACROCORE	38/48					
		0.0	13								
		0.0	14								
		18.6	15								
56.2	16						End of boring at 16 feet bgs. Borehole backfilled with soil cuttings and clean sand to grade and sealed with concrete.				
102.8	17										
	18										
	19										
	20										

Project					Project No.					
250 Water Street					170381202					
Location					Elevation and Datum					
250 Water Street					N/A					
Drilling Company					Date Started			Date Finished		
AARCO Environmental Services, Corp.					8/26/20			8/26/20		
Drilling Equipment					Completion Depth			Rock Depth		
AMS Power Probe 9580-VTR					16 ft			N/A		
Size and Type of Bit					Number of Samples		Disturbed		Undisturbed	Core
2-inch diameter closed point macro core					4		N/A		N/A	N/A
Casing Diameter (in)			Casing Depth (ft)		Water Level (ft.)		First	Completion		24 HR.
N/A			N/A		12		▼	N/A		▼ N/A
Casing Hammer		Weight (lbs)		Drop (in)	Drilling Foreman					
N/A		N/A		N/A	Rohn Dixon					
Sampler					Field Engineer					
4-foot long acetate liner					Tyler Zorn					
Sampler Hammer		Weight (lbs)		Drop (in)						
N/A		N/A		N/A						
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist BL/6in	Jerome (ug/m³)	
		R1A (0"-42"): Light brown to grey fine SAND, some fine gravel, trace medium sand, brick, concrete (dry) [FILL]		0	R1	MACROCORE	42/48			
				0.0						
				0.0						
				0.0						
				0.0						
				0.0						
				0.0						
				0.0						
				0.0						
				0.0						
				0.0						
				0.0						
		R2A (0"-48"): Reddish brown to grey fine SAND, some fine gravel, trace medium sand, brick, concrete (dry) [FILL]		4	R2	MACROCORE	48/48			
				0.0						
				0.0						
				0.0						
				0.0						
				0.0						
				0.0						
				0.0						
				0.0						
				0.0						
				0.0						
				0.0						
		R3A (7"-48"): Reddish brown to light grey fine SAND, some fine gravel, trace medium sand, brick, concrete (moist) [FILL]		8	R3	MACROCORE	41/48			
				0.0						
				0.0						
				0.0						
				0.0						
				0.0						
				0.0						
				0.0						
				0.0						
				0.0						
				0.0						
				0.0						
		R4A (8"-48"): Brown to dark grey fine SAND, some medium sand (wet) [SP]		12	R4	MACROCORE	40/48			Petroleum-like odors and staining from 12 to 16 feet below grade surface (bgs).
				41.1						
				62.0						
				14						
				218.0						
				11.7						
				9.1						
				16						
				17						
				18						
				19						
				20						

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Project 250 Water Street				Project No. 170381202																																																																																																																																								
Location 250 Water Street				Elevation and Datum N/A																																																																																																																																								
Drilling Company AARCO Environmental Services, Corp.				Date Started 8/26/20		Date Finished 8/26/20																																																																																																																																						
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End of boring at 12 feet below grade surface. Borehole backfilled with soil cuttings and clean sand to grade and sealed with concrete.

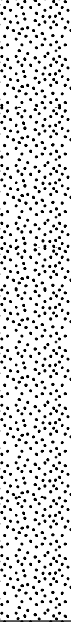

Project				Project No.									
250 Water Street				170381202									
Location				Elevation and Datum									
250 Water Street				N/A									
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)		
					Number	Type	Recov. (in)	Penetr. resist. BL/6in	Jerome (ug/m ³)	XRF (ppm)			
		R6A (0"-42"): Brown medium SAND, some fine sand (wet) [SP]	0.0	20	R6	MACROCORE	42/48		0.05	<LOD	End of boring at 30 feet below grade surface. Borehole backfilled with soil cuttings and clean sand to grade and sealed with asphalt.		
			0.0	21									
			0.0	22								0.06	<LOD
			0.0	23									
			0.0	24	R7	MACROCORE	36/48		0.03	<LOD			
			0.0	25									
			0.0	26								0.02	<LOD
			0.0	27									
			0.0	28	R8	MACROCORE	12/24		0.00	<LOD			
			0.0	29									
			0.0	30								0.05	<LOD
						31							
					32								
					33								
					34								
					35								
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Project 250 Water Street				Project No. 170381202			
Location 250 Water Street				Elevation and Datum N/A			
Drilling Company AARCO Environmental Services, Corp.				Date Started 7/29/20		Date Finished 7/29/20	
Drilling Equipment Geoprobe 7822 DT				Completion Depth 30 ft		Rock Depth N/A	
Size and Type of Bit 2-inch diameter closed point macro core				Number of Samples 8		Disturbed N/A	
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First ∇ 15.5		Undisturbed Completion ∇ N/A	
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		24 HR. ∇ N/A	
Sampler 4-foot long acetate liner				Drilling Foreman Nick Turro			
Sampler Hammer N/A				Field Engineer Ashley Stappenbeck			

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist	Jerome (ug/m ³)	XRF (ppm)	
		Asphalt		0							
		R1A (0-31"): Brown fine SAND, trace coarse sand, brick, concrete, coal (dry) [FILL]		0.0							
			0.0	1							
			0.0	2	R1	MACROCORE	31/48		1.15	61.0	
			0.0	3					1.79	179.0	
			0.0	4							
		R2A (0-6"): Brown fine SAND, trace medium sand, coal, brick (dry) [FILL]		0.0	5				1.00	<LOD	
		R2B (6-40"): Light brown fine medium SAND, some fine sand (dry) [SP]		0.0	6	R2	MACROCORE	40/48		1.46	<LOD
			0.0	7							
			0.0	8					0.32	<LOD	
		R3A (0-26"): Brown fine SAND, trace clay (dry)		0.0	9						
			0.0	10	R3	MACROCORE	34/48				
			0.0	11							
		R3B (26-29"): Light brown medium SAND, trace fine sand (dry) [SP]		0.0	12				0.30	<LOD	
		R3C (29-34"): Brown fine SAND, trace medium sand (dry) [SP]		0.0	13						
		R4A (0-31"): Light brown fine SAND, trace medium sand (wet) [SP]		0.0	14	R4	MACROCORE	31/48		1.26	<LOD
			0.0	15							
			0.0	16					1.72	1.0	
		R5A (0-34"): Brown fine SAND, trace medium sand, trace coarse sand (wet) [SP]		0.0	17						
			0.0	18	R5	MACROCORE	34/48		0.10	<LOD	
		0.0	19								
		0.0	20								

Project	250 Water Street	Project No.	170381202
Location	250 Water Street	Elevation and Datum	N/A

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr. resist. BL/6in	Jerome (ug/m ³)	XRF (ppm)		
		R6A (0-27"): Brown fine SAND, trace medium sand, trace coarse sand (wet) [SP]	0.0	20	R6	MACROCORE	27/48		0.13	<LOD	End of boring at 30 feet below grade surface. Borehole backfilled with soil cuttings and clean sand to grade and sealed with asphalt.	
			21									
			0.0	22						0.11		<LOD
			0.0	23								
			0.0	24	R7	MACROCORE	40/48		0.34	<LOD		
			0.0	25								
			0.0	26					0.41	<LOD		
			0.0	27								
		0.0	28	R8	MACROCORE	24/24		0.06	<LOD			
		0.0	29									
		0.0	30					0.02	<LOD			
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Location 250 Water Street				Elevation and Datum N/A																																																																																																																																																		
Drilling Company AARCO Environmental Services, Corp.				Date Started 8/26/20		Date Finished 8/26/20																																																																																																																																																
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End of boring at 12 feet below grade surface. Borehole backfilled with soil cuttings and clean sand to grade and sealed with concrete.

APPENDIX D
MONITORING WELL CONSTRUCTION LOGS

WELL CONSTRUCTION AND DEVELOPMENT SUMMARY

Well No.

MW11

PROJECT		PROJECT NO.																															
250 Water Street		170381202																															
LOCATION		ELEVATION AND DATUM																															
New York, New York		N/A																															
DRILLING AGENCY		DATE STARTED	DATE FINISHED																														
AARCO Environmental Services Corp.		8/19/2020	8/19/2020																														
DRILLING EQUIPMENT		DRILLER																															
Geoprobe® 7822 DT		Rohn Dixon																															
SIZE AND TYPE OF BIT		INSPECTOR																															
2-inch Direct Push		Tyler Zorn																															
BOREHOLE DIAMETER		TYPE OF WELL (OVERBURDEN / BEDROCK)																															
2-inch		Overburden																															
RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL																															
PVC	2-inch	No. 2 Sand																															
TYPE OF SCREEN	DIAMETER	TYPE OF WELL PACK	TYPE OF SEAL MATERIAL																														
PVC No. 20 Slot	2-inch	No. 2 Sand	Bentonite																														
METHOD OF INSTALLATION																																	
A Geoprobe® 7822 DT was used to advance the boring to approximately 20 feet below grade surface (bgs). The borehole was backfilled with clean sand to about 15 feet bgs and a 2-inch PVC monitoring well was installed, which consisted of 10 feet of 20-slot (0.020-inch) well screen between 5 and 15 feet bgs and a solid 2-inch riser to grade surface. The annulus was filled with sand to one foot above the screened interval and sealed with bentonite to grade. The well was developed by AARCO Environmental Services, Corp. on 08/20/2020.																																	
WELL DEVELOPMENT DATA																																	
SURGE BLOCK DIAMETER	N/A	TYPE PUMP	Whale Pump																														
DRILLER OR LANGAN	Driller	MAX PUMP RATE	2.2 gpm																														
NUMBER OF SURGE CYCLES	N/A	TOTAL VOLUME	5 gallons																														
TOP OF CASING	ELEVATION	DEPTH (ft)	<p>The diagram illustrates the well construction. It shows a vertical casing with a cover at the top. A riser pipe extends from the cover down to a seal. Below the seal is a screen section, and below that is a sand backfill section. The casing is labeled with 'Cover', 'Riser', 'Seal', 'PVC Screen', and 'Sand'.</p>																														
		0																															
TOP OF SEAL	ELEVATION	DEPTH (ft)																															
	N/A	0																															
TOP OF FILTER	ELEVATION	DEPTH (ft)																															
	N/A	4																															
TOP OF SCREEN	ELEVATION	DEPTH (ft)																															
	N/A	5																															
BOTTOM OF BORING	ELEVATION	DEPTH (ft)																															
	N/A	15																															
SCREEN LENGTH		10'	<table border="1"> <tr> <th colspan="2">SUMMARY SOIL CLASSIFICATION</th> <th>DEPTH (FT)</th> </tr> <tr> <td></td> <td></td> <td>0.00</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>	SUMMARY SOIL CLASSIFICATION		DEPTH (FT)			0.00																								
SUMMARY SOIL CLASSIFICATION		DEPTH (FT)																															
		0.00																															
SLOT SIZE	No. 20 Slot; 0.020 Inches																																
GROUNDWATER ELEVATIONS																																	
ELEVATION	DATE	DEPTH TO WATER																															
	9/3/2020	9.62																															
ELEVATION	DATE	DEPTH TO WATER																															
ELEVATION	DATE	DEPTH TO WATER																															
ELEVATION	DATE	DEPTH TO WATER																															
*MEASURED FROM TOP OF MONITORING WELL CASING																																	
<p>LANGAN Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.</p> <p>21 Penn Plaza, 360 West 31st Street, 8th Floor, New York</p>																																	

WELL CONSTRUCTION AND DEVELOPMENT SUMMARY

Well No.

MW17

PROJECT		PROJECT NO.	
250 Water Street		170381202	
LOCATION		ELEVATION AND DATUM	
New York, New York		N/A	
DRILLING AGENCY		DATE STARTED	DATE FINISHED
AARCO Environmental Services Corp.		7/31/2020	7/31/2020
DRILLING EQUIPMENT		DRILLER	
Geoprobe® 7822 DT		Sergio Magana	
SIZE AND TYPE OF BIT		INSPECTOR	
2-inch Direct Push		Ashley Stappenbeck	
BOREHOLE DIAMETER		TYPE OF WELL (OVERBURDEN / BEDROCK)	
2-inch		Overburden	
RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL	
PVC	2-inch	No. 2 Sand	
TYPE OF SCREEN	DIAMETER	TYPE OF WELL PACK	TYPE OF SEAL MATERIAL
PVC No. 20 Slot	2-inch	No. 2 Sand	Bentonite
METHOD OF INSTALLATION			
A Geoprobe® 7822 DT was used to advance the boring to approximately 30 feet below grade surface (bgs). The borehole was backfilled with clean sand to about 17 feet bgs and a 2-inch PVC monitoring well was installed, which consisted of 10 feet of 20-slot (0.020-inch) well screen between 7 and 17 feet bgs and a solid 2-inch riser to grade surface. The annulus was filled with clean sand to one foot above the screened interval, followed by a with a two-foot thick bentonite layer, and clean sand to grade. The well was developed by AARCO Environmental Services, Corp. on August 3, 2020.			
WELL DEVELOPMENT DATA			
SURGE BLOCK DIAMETER	N/A	TYPE PUMP	Whale Pump
DRILLER OR LANGAN	Driller	MAX PUMP RATE	2.2 gpm
NUMBER OF SURGE CYCLES	N/A	TOTAL VOLUME	5 gallons
TOP OF CASING	ELEVATION	DEPTH (ft)	<p>The diagram illustrates the well construction from the ground surface down to 17 feet depth. It shows a 2-inch riser pipe extending to the surface, a seal at 4 feet, a 10-foot screen interval from 7 to 17 feet, and a sand backfill. Labels include 'Cover', 'Riser', 'Seal', 'PVC Screen', and 'Sand'.</p>
		0	
TOP OF SEAL	ELEVATION	DEPTH (ft)	
	N/A	4	
TOP OF FILTER	ELEVATION	DEPTH (ft)	
	N/A	6	
TOP OF SCREEN	ELEVATION	DEPTH (ft)	
	N/A	7	
BOTTOM OF BORING	ELEVATION	DEPTH (ft)	
	N/A	17	
SCREEN LENGTH		10'	
SLOT SIZE	No. 20 Slot; 0.020 Inches		
GROUNDWATER ELEVATIONS			
ELEVATION	DATE	DEPTH TO WATER	
	9/3/2020	9.53	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
*MEASURED FROM TOP OF MONITORING WELL CASING			
LANGAN Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor, New York			

WELL CONSTRUCTION AND DEVELOPMENT SUMMARY

Well No.

MW15

PROJECT		PROJECT NO.	
250 Water Street		170381202	
LOCATION		ELEVATION AND DATUM	
New York, New York		N/A	
DRILLING AGENCY		DATE STARTED	DATE FINISHED
AARCO Environmental Services Corp.		8/19/2020	8/19/2020
DRILLING EQUIPMENT		DRILLER	
Geoprobe® 7822 DT		Rohn Dixon	
SIZE AND TYPE OF BIT		INSPECTOR	
2-inch Direct Push		Tyler Zorn	
BOREHOLE DIAMETER		TYPE OF WELL (OVERBURDEN / BEDROCK)	
2-inch		Overburden	
RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL	
PVC	2-inch	No. 2 Sand	
TYPE OF SCREEN	DIAMETER	TYPE OF WELL PACK	TYPE OF SEAL MATERIAL
PVC No. 20 Slot	2-inch	No. 2 Sand	Bentonite
METHOD OF INSTALLATION			
A Geoprobe® 7822 DT was used to advance the boring to approximately 20 feet below grade surface (bgs). The borehole was advanced to about 22 feet bgs and a 2-inch PVC monitoring well was installed, which consisted of 10 feet of 20-slot (0.020-inch) well screen between 12 and 22 feet bgs and a solid 2-inch riser to grade surface. The annulus was filled with clean sand to one foot above the screened interval, followed by a with a two-foot thick bentonite layer, and clean sand to grade. The well was developed by AARCO Environmental Services, Corp. on 08/20/2020.			
WELL DEVELOPMENT DATA			
SURGE BLOCK DIAMETER	N/A	TYPE PUMP	Whale Pump
DRILLER OR LANGAN	Driller	MAX PUMP RATE	2.2 gpm
NUMBER OF SURGE CYCLES	N/A	TOTAL VOLUME	5 gallons
TOP OF CASING	ELEVATION	DEPTH (ft)	<p>The diagram illustrates the well construction. It shows a vertical casing starting at 0 feet depth. A seal is located at 9 feet depth. A screen is installed between 12 and 22 feet depth. The annulus is filled with sand. Labels include 'Cover', 'Riser', 'Seal', 'PVC Screen', and 'Sand'.</p>
		0	
TOP OF SEAL	ELEVATION	DEPTH (ft)	
	N/A	9	
TOP OF FILTER	ELEVATION	DEPTH (ft)	
	N/A	11	
TOP OF SCREEN	ELEVATION	DEPTH (ft)	
	N/A	12	
BOTTOM OF BORING	ELEVATION	DEPTH (ft)	
	N/A	22	
SCREEN LENGTH		10'	
SLOT SIZE	No. 20 Slot; 0.020 Inches		9.00
GROUNDWATER ELEVATIONS			12.00
ELEVATION	DATE	DEPTH TO WATER	
	9/3/2020	15.39	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
			22.00
*MEASURED FROM TOP OF MONITORING WELL CASING			
LANGAN Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor, New York			

WELL CONSTRUCTION AND DEVELOPMENT SUMMARY

Well No.

MW25

PROJECT		PROJECT NO.	
250 Water Street		170381202	
LOCATION		ELEVATION AND DATUM	
New York, New York		N/A	
DRILLING AGENCY		DATE STARTED	DATE FINISHED
AARCO Environmental Services Corp.		7/28/2020	7/28/2020
DRILLING EQUIPMENT		DRILLER	
Geoprobe® 7822 DT		Nick Turro	
SIZE AND TYPE OF BIT		INSPECTOR	
2-inch Direct Push		Ashley Stappenbeck	
BOREHOLE DIAMETER		TYPE OF WELL (OVERBURDEN / BEDROCK)	
2-inch		Overburden	
RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL	
PVC	2-inch	No. 2 Sand	
TYPE OF SCREEN	DIAMETER	TYPE OF WELL PACK	TYPE OF SEAL MATERIAL
PVC No. 20 Slot	2-inch	No. 2 Sand	Bentonite
METHOD OF INSTALLATION			
A Geoprobe® 7822 DT was used to advance the boring to approximately 30 feet below grade surface (bgs). The borehole was backfilled with clean sand to about 22 feet bgs and a 2-inch PVC monitoring well was installed, which consisted of 10 feet of 20-slot (0.020-inch) well screen between 12 and 22 feet bgs and a solid 2-inch riser to grade surface. The annulus was filled with clean sand to one foot above the screened interval, followed by a with a two-foot thick bentonite layer, and clean sand to grade. The well was developed by AARCO Environmental Services, Corp. on August 3, 2020.			
WELL DEVELOPMENT DATA			
SURGE BLOCK DIAMETER	N/A	TYPE PUMP	Whale Pump
DRILLER OR LANGAN	Driller	MAX PUMP RATE	2.2 gpm
NUMBER OF SURGE CYCLES	N/A	TOTAL VOLUME	5 gallons
TOP OF CASING	ELEVATION	DEPTH (ft)	<p>The diagram illustrates the well construction. It shows a vertical casing with a cover at the top. A riser pipe extends from the cover down to a seal. Below the seal is a screen section, and below that is a sand fill section. The casing is labeled with 'PVC' and 'Screen'. The sand fill is labeled 'Sand'. The seal is labeled 'Seal'. The casing is labeled 'Cover' at the top. The riser is labeled 'Riser'. The screen is labeled 'Screen'. The sand fill is labeled 'Sand'. The casing is labeled 'PVC'.</p>
		0	
TOP OF SEAL	ELEVATION	DEPTH (ft)	
	N/A	9	
TOP OF FILTER	ELEVATION	DEPTH (ft)	
	N/A	11	
TOP OF SCREEN	ELEVATION	DEPTH (ft)	
	N/A	12	
BOTTOM OF BORING	ELEVATION	DEPTH (ft)	
	N/A	22	
SCREEN LENGTH	10'		
SLOT SIZE	No. 20 Slot; 0.020 Inches		
GROUNDWATER ELEVATIONS			
ELEVATION	DATE	DEPTH TO WATER	
	9/3/2020	15.18	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
*MEASURED FROM TOP OF MONITORING WELL CASING			
LANGAN Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor, New York			

WELL CONSTRUCTION AND DEVELOPMENT SUMMARY

Well No.

MW26

PROJECT		PROJECT NO.	
250 Water Street		170381202	
LOCATION		ELEVATION AND DATUM	
New York, New York		N/A	
DRILLING AGENCY		DATE STARTED	DATE FINISHED
AARCO Environmental Services Corp.		8/24/2020	8/24/2020
DRILLING EQUIPMENT		DRILLER	
AMS Power Probe 9580-VTR		Rohn Dixon	
SIZE AND TYPE OF BIT		INSPECTOR	
2-inch Direct Push		Lexi Haley	
BOREHOLE DIAMETER		TYPE OF WELL (OVERBURDEN / BEDROCK)	
2-inch		Overburden	
RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL	
PVC	2-inch	No. 2 Sand	
TYPE OF SCREEN	DIAMETER	TYPE OF WELL PACK	TYPE OF SEAL MATERIAL
PVC No. 20 Slot	2-inch	No. 2 Sand	Bentonite
METHOD OF INSTALLATION			
An AMS Power Probe 9580-VTR was used to advance the boring to approximately 20 feet below grade surface (bgs). The borehole was advanced to about 21 feet bgs and a 2-inch PVC monitoring well was installed, which consisted of 10 feet of 20-slot (0.020-inch) well screen between 11 and 21 feet bgs and a solid 2-inch riser to grade surface. The annulus was filled with clean sand to one foot above the screened interval, followed by a with a two-foot thick bentonite layer, and clean sand to grade. The well was developed by AARCO Environmental Services, Corp. on 08/26/2020.			
WELL DEVELOPMENT DATA			
SURGE BLOCK DIAMETER	N/A	TYPE PUMP	Whale Pump
DRILLER OR LANGAN	Driller	MAX PUMP RATE	2.2 gpm
NUMBER OF SURGE CYCLES	N/A	TOTAL VOLUME	5 gallons
TOP OF CASING	ELEVATION	DEPTH (ft)	<p>The diagram illustrates the well construction. It shows a vertical casing with a cover at the top. A riser pipe extends from the casing down to a seal. Below the seal is a screen section, and the annulus is filled with sand. The diagram is labeled with 'Cover', 'Riser', 'Seal', 'PVC Screen', and 'Sand'.</p>
		0	
TOP OF SEAL	ELEVATION	DEPTH (ft)	
	N/A	8	
TOP OF FILTER	ELEVATION	DEPTH (ft)	
	N/A	10	
TOP OF SCREEN	ELEVATION	DEPTH (ft)	
	N/A	11	
BOTTOM OF BORING	ELEVATION	DEPTH (ft)	
	N/A	21	
SCREEN LENGTH		10'	
SLOT SIZE	No. 20 Slot; 0.020 Inches		
GROUNDWATER ELEVATIONS			
ELEVATION	DATE	DEPTH TO WATER	
	9/3/2020	12.24	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
*MEASURED FROM TOP OF MONITORING WELL CASING			
LANGAN Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor, New York			

WELL CONSTRUCTION AND DEVELOPMENT SUMMARY

Well No.

MW28

PROJECT		PROJECT NO.			
250 Water Street		170381202			
LOCATION		ELEVATION AND DATUM			
New York, New York		N/A			
DRILLING AGENCY		DATE STARTED	DATE FINISHED		
AARCO Environmental Services Corp.		8/18/2020	8/18/2020		
DRILLING EQUIPMENT		DRILLER			
Geoprobe® 7822 DT		Rohn Dixon			
SIZE AND TYPE OF BIT		INSPECTOR			
2-inch Direct Push		Thomas Schiefer			
BOREHOLE DIAMETER		TYPE OF WELL (OVERBURDEN / BEDROCK)			
2-inch		Overburden			
RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL			
PVC	2-inch	No. 2 Sand			
TYPE OF SCREEN	DIAMETER	TYPE OF WELL PACK	TYPE OF SEAL MATERIAL		
PVC No. 20 Slot	2-inch	No. 2 Sand	Bentonite		
METHOD OF INSTALLATION					
A Geoprobe® 7822 DT was used to advance the boring to approximately 20 feet below grade surface (bgs). The borehole was backfilled with clean sand to about 14 feet bgs and a 2-inch PVC monitoring well was installed, which consisted of 10 feet of 20-slot (0.020-inch) well screen between 4 and 14 feet bgs and a solid 2-inch riser to grade surface. The annulus was filled with sand to one foot above the screened interval and sealed with bentonite to grade. The well was developed by AARCO Environmental Services, Corp. on 08/20/2020					
WELL DEVELOPMENT DATA					
SURGE BLOCK DIAMETER	N/A	TYPE PUMP	Whale Pump		
DRILLER OR LANGAN	Driller	MAX PUMP RATE	2.2 gpm		
NUMBER OF SURGE CYCLES	N/A	TOTAL VOLUME	5 gallons		
TOP OF CASING	ELEVATION	DEPTH (ft)		SUMMARY SOIL CLASSIFICATION	DEPTH (FT)
		0			
TOP OF SEAL	ELEVATION	DEPTH (ft)			
	N/A	0			
TOP OF FILTER	ELEVATION	DEPTH (ft)			
	N/A	3			
TOP OF SCREEN	ELEVATION	DEPTH (ft)			
	N/A	4			
BOTTOM OF BORING	ELEVATION	DEPTH (ft)			
	N/A	14			
SCREEN LENGTH		10'			
SLOT SIZE	No. 20 Slot; 0.020 Inches				
GROUNDWATER ELEVATIONS					
ELEVATION	DATE	DEPTH TO WATER			
	9/3/2020	8.12			
ELEVATION	DATE	DEPTH TO WATER			
ELEVATION	DATE	DEPTH TO WATER			
ELEVATION	DATE	DEPTH TO WATER			
ELEVATION	DATE	DEPTH TO WATER			
*MEASURED FROM TOP OF MONITORING WELL CASING					
LANGAN Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor, New York					

WELL CONSTRUCTION AND DEVELOPMENT SUMMARY

Well No.

MW30

PROJECT		PROJECT NO.	
250 Water Street		170381202	
LOCATION		ELEVATION AND DATUM	
New York, New York		N/A	
DRILLING AGENCY		DATE STARTED	DATE FINISHED
AARCO Environmental Services Corp.		8/26/2020	8/26/2020
DRILLING EQUIPMENT		DRILLER	
AMS Power Probe 9580-VTR		Rohn Dixon	
SIZE AND TYPE OF BIT		INSPECTOR	
2-inch Direct Push		Tyler Zorn	
BOREHOLE DIAMETER		TYPE OF WELL (OVERBURDEN / BEDROCK)	
2-inch		Overburden	
RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL	
PVC	2-inch	No. 2 Sand	
TYPE OF SCREEN	DIAMETER	TYPE OF WELL PACK	TYPE OF SEAL MATERIAL
PVC No. 20 Slot	2-inch	No. 2 Sand	Bentonite
METHOD OF INSTALLATION			
An AMS Power Probe 9580-VTR was used to advance the boring to approximately 32 feet below grade surface (bgs). The borehole was backfilled with clean sand to about 22 feet bgs and a 2-inch PVC monitoring well was installed, which consisted of 10 feet of 20-slot (0.020-inch) well screen between 12 and 22 feet bgs and a solid 2-inch riser to grade surface. The annulus was filled with clean sand to one foot above the screened interval, followed by a with a two-foot thick bentonite layer, and clean sand to grade. The well was developed by AARCO Environmental Services, Corp. on 08/26/2020.			
WELL DEVELOPMENT DATA			
SURGE BLOCK DIAMETER	N/A	TYPE PUMP	Whale Pump
DRILLER OR LANGAN	Driller	MAX PUMP RATE	2.2 gpm
NUMBER OF SURGE CYCLES	N/A	TOTAL VOLUME	5 gallons
TOP OF CASING	ELEVATION	DEPTH (ft)	<p>The diagram illustrates the well construction from the ground surface down to 22 feet depth. It shows a 2-inch riser pipe extending to the surface, a seal at 9 feet, a 10-foot screen interval from 12 to 22 feet, and sand backfill in the annulus. Labels include 'Cover', 'Riser', 'Seal', 'PVC Screen', and 'Sand'.</p>
		0	
TOP OF SEAL	ELEVATION	DEPTH (ft)	
	N/A	9	
TOP OF FILTER	ELEVATION	DEPTH (ft)	
	N/A	11	
TOP OF SCREEN	ELEVATION	DEPTH (ft)	
	N/A	12	
BOTTOM OF BORING	ELEVATION	DEPTH (ft)	
	N/A	22	
SCREEN LENGTH		10'	
SLOT SIZE	No. 20 Slot; 0.020 Inches		
GROUNDWATER ELEVATIONS			
ELEVATION	DATE	DEPTH TO WATER	
	9/3/2020	12.52	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
*MEASURED FROM TOP OF MONITORING WELL CASING			
LANGAN Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor, New York			

WELL CONSTRUCTION AND DEVELOPMENT SUMMARY

Well No.

MW31

PROJECT		PROJECT NO.																					
250 Water Street		170381202																					
LOCATION		ELEVATION AND DATUM																					
New York, New York		N/A																					
DRILLING AGENCY		DATE STARTED	DATE FINISHED																				
AARCO Environmental Services Corp.		8/24/2020	8/24/2020																				
DRILLING EQUIPMENT		DRILLER																					
AMS Power Probe 9580-VTR		Rohn Dixon																					
SIZE AND TYPE OF BIT		INSPECTOR																					
2-inch Direct Push		Lexi Haley																					
BOREHOLE DIAMETER		TYPE OF WELL (OVERBURDEN / BEDROCK)																					
2-inch		Overburden																					
RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL																					
PVC	2-inch	No. 2 Sand																					
TYPE OF SCREEN	DIAMETER	TYPE OF WELL PACK	TYPE OF SEAL MATERIAL																				
PVC No. 20 Slot	2-inch	No. 2 Sand	Bentonite																				
METHOD OF INSTALLATION																							
An AMS Power Probe 9580-VTR was used to advance the boring to approximately 32 feet below grade surface (bgs). The borehole was backfilled with clean sand to about 18 feet bgs and a 2-inch PVC monitoring well was installed, which consisted of 10 feet of 20-slot (0.020-inch) well screen between 8 and 18 feet bgs and a solid 2-inch riser to grade surface. The annulus was filled with clean sand to one foot above the screened interval, followed by a with a two-foot thick bentonite layer, and clean sand to grade. The well was developed by AARCO Environmental Services, Corp. on 08/26/2020.																							
WELL DEVELOPMENT DATA																							
SURGE BLOCK DIAMETER	N/A	TYPE PUMP	Whale Pump																				
DRILLER OR LANGAN	Driller	MAX PUMP RATE	2.2 gpm																				
NUMBER OF SURGE CYCLES	N/A	TOTAL VOLUME	5 gallons																				
TOP OF CASING	ELEVATION	DEPTH (ft)	<p>The diagram illustrates the well construction from the ground surface down to 18 feet depth. It shows a 2-inch riser pipe extending to the surface, a seal at 5 feet, a 10-foot section of 20-slot PVC screen between 8 and 18 feet, and the annulus filled with sand. Labels include 'Cover', 'Riser', 'Seal', 'PVC Screen', and 'Sand'.</p>																				
		0																					
TOP OF SEAL	ELEVATION	DEPTH (ft)																					
	N/A	5																					
TOP OF FILTER	ELEVATION	DEPTH (ft)																					
	N/A	7																					
TOP OF SCREEN	ELEVATION	DEPTH (ft)																					
	N/A	8																					
BOTTOM OF BORING	ELEVATION	DEPTH (ft)																					
	N/A	18																					
SCREEN LENGTH		10'	<table border="1"> <tr> <th>SUMMARY SOIL CLASSIFICATION</th> <th>DEPTH (FT)</th> </tr> <tr> <td></td> <td>0.00</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td>5.00</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td>8.00</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td>18.00</td> </tr> <tr> <td></td> <td></td> </tr> </table>	SUMMARY SOIL CLASSIFICATION	DEPTH (FT)		0.00						5.00				8.00				18.00		
SUMMARY SOIL CLASSIFICATION	DEPTH (FT)																						
	0.00																						
	5.00																						
	8.00																						
	18.00																						
SLOT SIZE	No. 20 Slot; 0.020 Inches																						
GROUNDWATER ELEVATIONS																							
ELEVATION	DATE	DEPTH TO WATER																					
	9/3/2020	10.21																					
ELEVATION	DATE	DEPTH TO WATER																					
ELEVATION	DATE	DEPTH TO WATER																					
ELEVATION	DATE	DEPTH TO WATER																					
ELEVATION	DATE	DEPTH TO WATER																					
*MEASURED FROM TOP OF MONITORING WELL CASING																							

LANGAN Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.

21 Penn Plaza, 360 West 31st Street, 8th Floor, New York

WELL CONSTRUCTION AND DEVELOPMENT SUMMARY

Well No.

MW32

PROJECT		PROJECT NO.	
250 Water Street		170381202	
LOCATION		ELEVATION AND DATUM	
New York, New York		N/A	
DRILLING AGENCY		DATE STARTED	DATE FINISHED
AARCO Environmental Services Corp.		8/21/2020	8/21/2020
DRILLING EQUIPMENT		DRILLER	
Geoprobe® 7822 DT		Rohn Dixon	
SIZE AND TYPE OF BIT		INSPECTOR	
2-inch Direct Push		Tyler Zorn	
BOREHOLE DIAMETER		TYPE OF WELL (OVERBURDEN / BEDROCK)	
2-inch		Overburden	
RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL	
PVC	2-inch	No. 2 Sand	
TYPE OF SCREEN	DIAMETER	TYPE OF WELL PACK	TYPE OF SEAL MATERIAL
PVC No. 20 Slot	2-inch	No. 2 Sand	Bentonite
METHOD OF INSTALLATION			
A Geoprobe® 7822 DT was used to advance the boring to approximately 28 feet below grade surface (bgs). The borehole was backfilled with clean sand to about 19 feet bgs and a 2-inch PVC monitoring well was installed, which consisted of 10 feet of 20-slot (0.020-inch) well screen between 9 and 19 feet bgs and a solid 2-inch riser to grade surface. The annulus was filled with clean sand to one foot above the screened interval, followed by a with a two-foot thick bentonite layer, and clean sand to grade. The well was developed by AARCO Environmental Services, Corp. on 08/26/2020.			
WELL DEVELOPMENT DATA			
SURGE BLOCK DIAMETER	N/A	TYPE PUMP	Whale Pump
DRILLER OR LANGAN	Driller	MAX PUMP RATE	2.2 gpm
NUMBER OF SURGE CYCLES	N/A	TOTAL VOLUME	5 gallons
TOP OF CASING	ELEVATION	DEPTH (ft)	<p>The diagram illustrates the well construction. It shows a vertical casing with a cover at the top. A riser pipe extends from the cover down to a seal. Below the seal is a screen section, and the bottom of the well is filled with sand. Labels include 'Cover', 'Riser', 'Seal', 'PVC Screen', and 'Sand'.</p>
		0	
TOP OF SEAL	ELEVATION	DEPTH (ft)	
	N/A	6	
TOP OF FILTER	ELEVATION	DEPTH (ft)	
	N/A	8	
TOP OF SCREEN	ELEVATION	DEPTH (ft)	
	N/A	9	
BOTTOM OF BORING	ELEVATION	DEPTH (ft)	
	N/A	19	
SCREEN LENGTH		10'	
SLOT SIZE	No. 20 Slot; 0.020 Inches		
GROUNDWATER ELEVATIONS			
ELEVATION	DATE	DEPTH TO WATER	
	9/3/2020	8.65	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
*MEASURED FROM TOP OF MONITORING WELL CASING			
LANGAN Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor, New York			

WELL CONSTRUCTION AND DEVELOPMENT SUMMARY

Well No.

MW33

PROJECT		PROJECT NO.	
250 Water Street		170381202	
LOCATION		ELEVATION AND DATUM	
New York, New York		N/A	
DRILLING AGENCY		DATE STARTED	DATE FINISHED
AARCO Environmental Services Corp.		8/21/2020	8/21/2020
DRILLING EQUIPMENT		DRILLER	
Geoprobe® 7822 DT		Rohn Dixon	
SIZE AND TYPE OF BIT		INSPECTOR	
2-inch Direct Push		Tyler Zorn	
BOREHOLE DIAMETER		TYPE OF WELL (OVERBURDEN / BEDROCK)	
2-inch		Overburden	
RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL	
PVC	2-inch	No. 2 Sand	
TYPE OF SCREEN	DIAMETER	TYPE OF WELL PACK	TYPE OF SEAL MATERIAL
PVC No. 20 Slot	2-inch	No. 2 Sand	Bentonite
METHOD OF INSTALLATION			
A Geoprobe® 7822 DT was used to advance the boring to approximately 20 feet below grade surface (bgs). The borehole was backfilled with clean sand to about 19 feet bgs and a 2-inch PVC monitoring well was installed, which consisted of 10 feet of 20-slot (0.020-inch) well screen between 9 and 19 feet bgs and a solid 2-inch riser to grade surface. The annulus was filled with clean sand to one foot above the screened interval, followed by a with a two-foot thick bentonite layer, and clean sand to grade. The well was developed by AARCO Environmental Services, Corp. on 08/26/2020.			
WELL DEVELOPMENT DATA			
SURGE BLOCK DIAMETER	N/A	TYPE PUMP	Whale Pump
DRILLER OR LANGAN	Driller	MAX PUMP RATE	2.2 gpm
NUMBER OF SURGE CYCLES	N/A	TOTAL VOLUME	5 gallons
TOP OF CASING	ELEVATION	DEPTH (ft)	<p>The diagram illustrates the well construction from the ground surface down to 19 feet depth. At the surface (0 ft), there is a 'Cover'. Below the cover is a 'Riser' pipe. At 6 feet depth, there is a 'Seal'. Between 9 feet and 19 feet depth, there is a 'PVC Screen'. The area around the screen is filled with 'Sand'. The bottom of the boring is at 19 feet.</p>
		0	
TOP OF SEAL	ELEVATION	DEPTH (ft)	
	N/A	6	
TOP OF FILTER	ELEVATION	DEPTH (ft)	
	N/A	8	
TOP OF SCREEN	ELEVATION	DEPTH (ft)	
	N/A	9	
BOTTOM OF BORING	ELEVATION	DEPTH (ft)	
	N/A	19	
SCREEN LENGTH		10'	
SLOT SIZE	No. 20 Slot; 0.020 Inches		
GROUNDWATER ELEVATIONS			
ELEVATION	DATE	DEPTH TO WATER	
	9/3/2020	10.39	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
*MEASURED FROM TOP OF MONITORING WELL CASING			
LANGAN Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor, New York			

WELL CONSTRUCTION AND DEVELOPMENT SUMMARY

Well No.

MW34

PROJECT			PROJECT NO.			
250 Water Street			170381202			
LOCATION			ELEVATION AND DATUM			
New York, New York			N/A			
DRILLING AGENCY			DATE STARTED		DATE FINISHED	
AARCO Environmental Services Corp.			8/25/2020		8/25/2020	
DRILLING EQUIPMENT			DRILLER			
AMS Power Probe 9580-VTR			Rohn Dixon			
SIZE AND TYPE OF BIT			INSPECTOR			
2-inch Direct Push			Tyler Zorn			
BOREHOLE DIAMETER			TYPE OF WELL (OVERBURDEN / BEDROCK)			
2-inch			Overburden			
RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL				
PVC	2-inch	No. 2 Sand				
TYPE OF SCREEN	DIAMETER	TYPE OF WELL PACK	TYPE OF SEAL MATERIAL			
PVC No. 20 Slot	2-inch	No. 2 Sand	Bentonite			
METHOD OF INSTALLATION						
An AMS Power Probe 9580-VTR was used to advance the boring to approximately 20 feet below grade surface (bgs). The borehole was backfilled with clean sand to about 19 feet bgs and a 2-inch PVC monitoring well was installed, which consisted of 10 feet of 20-slot (0.020-inch) well screen between 9 and 19 feet bgs and a solid 2-inch riser to grade surface. The annulus was filled with clean sand to one foot above the screened interval, followed by a with a two-foot thick bentonite layer, and clean sand to grade. The well was developed by AARCO Environmental Services, Corp. on 08/26/2020.						
WELL DEVELOPMENT DATA						
SURGE BLOCK DIAMETER	N/A	TYPE PUMP	Whale Pump	DEVELOPMENT CONFIRMATION		
DRILLER OR LANGAN	Driller	MAX PUMP RATE	2.2 gpm	Confirmed by Langan on 08/26/2020		
NUMBER OF SURGE CYCLES	N/A	TOTAL VOLUME	5 gallons			
TOP OF CASING	ELEVATION	DEPTH (ft)	<p>The diagram illustrates the well construction. It shows a vertical casing with a cover at the top. A riser pipe extends from the cover down to a seal. Below the seal is a screen section, and the bottom of the well is filled with sand. Labels include 'Cover', 'Riser', 'Seal', 'PVC Screen', and 'Sand'.</p>		SUMMARY SOIL CLASSIFICATION	DEPTH (FT)
		0				
TOP OF SEAL	ELEVATION	DEPTH (ft)				0.00
	N/A	6				
TOP OF FILTER	ELEVATION	DEPTH (ft)				
	N/A	8				
TOP OF SCREEN	ELEVATION	DEPTH (ft)				
	N/A	9				
BOTTOM OF BORING	ELEVATION	DEPTH (ft)				
	N/A	19				
SCREEN LENGTH		10'				
SLOT SIZE	No. 20 Slot; 0.020 Inches				6.00	
GROUNDWATER ELEVATIONS						
ELEVATION	DATE	DEPTH TO WATER			9.00	
	9/3/2020	9.43				
ELEVATION	DATE	DEPTH TO WATER				
ELEVATION	DATE	DEPTH TO WATER				
ELEVATION	DATE	DEPTH TO WATER				
ELEVATION	DATE	DEPTH TO WATER			19.00	
*MEASURED FROM TOP OF MONITORING WELL CASING						
LANGAN Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor, New York						

APPENDIX E
GROUNDWATER SAMPLING LOGS

[illegible]

Project Information		Well Information		Equipment Information		Sampling Conditions		Sampling Information	
Project Name:	250 Water Street	Well No:	MW15	Water Quality Device Model:	Horiba U-52	Weather:	dy, 70s, wind ESE 8	Sample(s):	MW15_090120
Project Number:	170381202	Well Depth:	22'	Pine Number:	21418	Background PID (ppm):	0.0		
Site Location:	New York	Well Diameter:	2"	Pump Make and Model:	Peri pump	PID Beneath Inner Cap (ppm):	0.0		
Sampling Personnel:	Tyler Zorn	Well Screen Interval:	12'-22'	Pine Number:	A01785	Pump Intake Depth:	18'	Sample Date:	9/1/2020
				Tubing Diameter:	1/4" ID x 3/8" OD	Depth to Water Before Purge:		Sample Time:	13:15

STABILIZATION = 3 successive readings within limits

[illegible]

Notes:

1. Well depths and groundwater depths were measured in feet below the top of well casing.
2. Well and tubing diameters are measured in inches.
3. PID = Photoionization Detector
4. PPM = Parts per million
5. pH = Hydrogen ion concentration
6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
8. DTW = Depth to water
9. mS/cm = milli-Siemens per centimeter
10. NTU = Nephelometric Turbidity Unit

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Project Information		Well Information		Equipment Information		Sampling Conditions		Sampling Information	
Project Name:	250 Water Street	Well No:	MW17	Water Quality Device Model:	Horiba U-52	Weather:	dy, 70s, wind ESE 8	Sample(s):	MW17_090120
Project Number:	170381202	Well Depth:	17'	Pine Number:	21418	Background PID (ppm):	0.0		
Site Location:	New York	Well Diameter:	2"	Pump Make and Model:	Peri pump	PID Beneath Inner Cap (ppm):	0.0		
Sampling Personnel:	Tyler Zorn	Well Screen Interval:	7'-17'	Pine Number:	A01785	Pump Intake Depth:	12'	Sample Date:	9/1/2020
				Tubing Diameter:	1/4" ID x 3/8" OD	Depth to Water Before Purge:		Sample Time:	10:35

STABILIZATION = 3 successive readings within limits

[illegible]

Notes:

1. Well depths and groundwater depths were measured in feet below the top of well casing.
2. Well and tubing diameters are measured in inches.
3. PID = Photoionization Detector
4. PPM = Parts per million
5. pH = Hydrogen ion concentration
6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
8. DTW = Depth to water
9. mS/cm = milli-Siemens per centimeter
10. NTU = Nephelometric Turbidity Unit

[illegible]

Notes:

1. Well depths and groundwater depths were measured in feet below the top of well casing.
2. Well and tubing diameters are measured in inches.
3. PID = Photoionization Detector
4. PPM = Parts per million
5. pH = Hydrogen ion concentration
6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
8. DTW = Depth to water
9. mS/cm = milli-Siemans per centimeter
10. NTU = Nephelometric Turbidity Unit

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Project Information		Well Information		Equipment Information		Sampling Conditions		Sampling Information	
Project Name:	250 Water Street	Well No:	MW26	Water Quality Device Model:	Horiba U-52	Weather:	y/rainy, 70s, wind S	Sample(s):	MW26_090220
Project Number:	170381202	Well Depth:	21'	Pine Number:	21356	Background PID (ppm):	0.0		
Site Location:	New York	Well Diameter:	2"	Pump Make and Model:	Peri pump	PID Beneath Inner Cap (ppm):	12.7		
Sampling Personnel:	Tyler Zorn	Well Screen Interval:	11'-21'	Pine Number:	A01785	Pump Intake Depth:	17'	Sample Date:	9/2/2020
				Tubing Diameter:	1/4" ID x 3/8" OD	Depth to Water Before Purge:		Sample Time:	13:00

STABILIZATION = 3 successive readings within limits

[illegible]

Notes:

1. Well depths and groundwater depths were measured in feet below the top of well casing.
2. Well and tubing diameters are measured in inches.
3. PID = Photoionization Detector
4. PPM = Parts per million
5. pH = Hydrogen ion concentration
6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
8. DTW = Depth to water
9. mS/cm = milli-Siemens per centimeter
10. NTU = Nephelometric Turbidity Unit

[illegible]

Notes:

1. Well depths and groundwater depths were measured in feet below the top of well casing.
2. Well and tubing diameters are measured in inches.
3. PID = Photoionization Detector
4. PPM = Parts per million
5. pH = Hydrogen ion concentration
6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
8. DTW = Depth to water
9. mS/cm = milli-Siemens per centimeter
10. NTU = Nephelometric Turbidity Unit

[illegible]

[illegible]

[illegible]

Project Information		Well Information		Equipment Information		Sampling Conditions		Sampling Information	
Project Name:	250 Water Street	Well No:	MW33	Water Quality Device Model:	Horiba U-52	Weather:	y/rainy, 70s, wind S	Sample(s):	MW33_090220
Project Number:	170381202	Well Depth:	19'	Pine Number:	21356	Background PID (ppm):	0.0		
Site Location:	New York	Well Diameter:	2"	Pump Make and Model:	Peri pump	PID Beneath Inner Cap (ppm):	0.0		
Sampling Personnel:	Tyler Zorn	Well Screen Interval:	9'-19'	Pine Number:	A01785	Pump Intake Depth:	15'	Sample Date:	9/2/2020
				Tubing Diameter:	1/4" ID x 3/8" OD	Depth to Water Before Purge:		Sample Time:	8:50

STABILIZATION = 3 successive readings within limits

[illegible]

Notes:

1. Well depths and groundwater depths were measured in feet below the top of well casing.
2. Well and tubing diameters are measured in inches.
3. PID = Photoionization Detector
4. PPM = Parts per million
5. pH = Hydrogen ion concentration
6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
8. DTW = Depth to water
9. mS/cm = milli-Siemens per centimeter
10. NTU = Nephelometric Turbidity Unit

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Project Information		Well Information		Equipment Information		Sampling Conditions		Sampling Information	
Project Name:	250 Water Street	Well No:	MW34	Water Quality Device Model:	Horiba U-52	Weather:	y/rainy, 70s, wind S	Sample(s):	MW34_090220
Project Number:	170381202	Well Depth:	19'	Pine Number:	21356	Background PID (ppm):	0.0		
Site Location:	New York	Well Diameter:	2"	Pump Make and Model:	Peri pump	PID Beneath Inner Cap (ppm):	0.0		
Sampling Personnel:	Tyler Zorn	Well Screen Interval:	9'-19'	Pine Number:	A01785	Pump Intake Depth:	15'	Sample Date:	9/2/2020
				Tubing Diameter:	1/4" ID x 3/8" OD	Depth to Water Before Purge:		Sample Time:	10:35

STABILIZATION = 3 successive readings within limits

[illegible]

Notes:

1. Well depths and groundwater depths were measured in feet below the top of well casing.
2. Well and tubing diameters are measured in inches.
3. PID = Photoionization Detector
4. PPM = Parts per million
5. pH = Hydrogen ion concentration
6. ORP = Oxidation-reduction potential, measured in millivolts (mV)
7. DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
8. DTW = Depth to water
9. mS/cm = milli-Siemens per centimeter
10. NTU = Nephelometric Turbidity Unit

APPENDIX F
SOIL VAPOR CONSTRUCTION AND SAMPLE LOGS

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: AA02

PROJECT: 250 Water Street		PROJECT NO.: 170381202		
LOCATION: New York, New York		SURFACE ELEVATION AND DATUM: N/A		
DRILLING FIRM OR LANGAN INSTALLER: N/A		INSTALLATION DATE STARTED: N/A		DATE FINISHED: N/A
INSTALLATION FOREMAN: N/A		SAMPLE DATE STARTED: 7/9/2020		DATE FINISHED: 7/9/2020
INSTALLATION EQUIPMENT: N/A		TYPE OF SAMPLING DEVICE: 6-Liter Summa Canister; Sorbent Tube		
INSPECTOR: Thomas Schiefer		SAMPLER: Thomas Schiefer		
POTENTIAL SAMPLE INTERFERENCES: Vehicle exhaust from on and off-site traffic		WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):		
		Temp:	76-80 °F	
		Wind:	SE 0-10 mph	
		Precipitation:	N/A	
		Pressure:	30.07 in. Hg	
METHOD OF INSTALLATION: N/A				
TUBING TYPE/DIAMETER: N/A		TYPE OF MATERIAL ABOVE SEAL: N/A		
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: N/A		SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): N/A		
BOREHOLE DIAMETER: N/A		FILTER PACK MATERIAL (Sand or Glass Beads): N/A		
PURGE VOLUME (L): PURGE FLOW RATE (ML/MIN): PID AFTER PURGE (PPM): HELIUM TESTS HELIUM TEST IN BUCKET(%): HELIUM TEST IN TUBE (PPM):		IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.) SURFACE SURFACE		DEPTH (FEET FROM SURFACE)
N/A		N/A		
SORBENT TUBE				
SAMPLE START DATE/TIME - SORBENT TUBE:		11:47		
SAMPLE STOP DATE/TIME - SORBENT TUBE:		13:47		
TOTAL SAMPLE TIME - SORBENT TUBE (MIN):		120		
FLOW RATE - SORBENT TUBE (L/MIN):		0.20152		
VOLUME OF SAMPLE - SORBENT TUBE (LITERS):		24.1872		
SUMMA CANISTER				
SAMPLE START DATE/TIME - SUMMA:		11:47		
SAMPLE STOP DATE/TIME - SUMMA:		13:47		
TOTAL SAMPLE TIME - SUMMA (MIN):		120		
FLOW RATE - SUMMA (L/MIN):		0.05		
VOLUME OF SAMPLE - SUMMA (LITERS):		6		
PID AFTER SAMPLE (PPM):		N/A		
SAMPLE MOISTURE CONTENT:		N/A		
CAN SERIAL NUMBER:		1942		
REGULATOR SERIAL NUMBER:		426		
CAN START VACUUM PRESS. (" HG):		-29.95		
CAN STOP VACUUM PRESS. (" HG):		-6.28		
SAMPLE LOCATION SKETCH		NOTES		
See Sample Location Map				
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727				

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV12

PROJECT: 250 Water Street		PROJECT NO.: 170381202	
LOCATION: New York, New York		SURFACE ELEVATION AND DATUM: N/A	
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Services, Corp.		INSTALLATION DATE STARTED: 7/9/2020	
INSTALLATION FOREMAN: Nick Turro		DATE FINISHED: 7/9/2020	
INSTALLATION EQUIPMENT: Geoprobe 7720 DT		SAMPLE DATE STARTED: 7/9/2020	
INSPECTOR: Thomas Schiefer		DATE FINISHED: 7/9/2020	
POTENTIAL SAMPLE INTERFERENCES: N/A		TYPE OF SAMPLING DEVICE: 6-Liter Summa Canister; Sorbent Tube	
		SAMPLER: Thomas Schiefer	
		WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):	
		Temp:	76-80 °F
		Wind:	SE 0-10 mph
		Precipitation:	N/A
		Pressure:	30.07 in. Hg
METHOD OF INSTALLATION: A expendable point was advanced to 8 feet below grade surface (bgs) with a Geoprobe 7720 DT and a 2-inch soil vapor pore was installed. The annulus was backfilled with one foot of No. 2 sand and sealed to surface with hydrated bentonite. Initial mercury vapor concentrations above background levels were not observed. Sample consisted of a 6L Summa canister fitted with an 2-hour flow control valve and a sorbent tube connected to a SKC air sampling pump with a flow rate of 0.22808 L/min. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The summa canister sample and flow controller were checked each hour during sampling to ensure proper operation. Sorbent tube sample collection took place over a period of 2 hours with a total volume of 24.378 L passing through the tube.			
TUBING TYPE/DIAMETER: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene Tubing		TYPE OF MATERIAL ABOVE SEAL: No. 2 Sand	
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-Inch Polyethylene Probe		SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite	
BOREHOLE DIAMETER: 2-inch		FILTER PACK MATERIAL (Sand or Glass Beads): No. 2 Sand	
PURGE VOLUME (L): 0.80		IMPLANT/PROBE DETAILS	
PURGE FLOW RATE (ML/MIN): 200		(SEAL, FILTER, ETC.)	
PID AFTER PURGE (PPM): 0.0		DEPTH	
HELIUM TESTS Pre-sampling		(FEET FROM SURFACE)	
HELIUM TEST IN BUCKET(%): 12.9%		NOTES	
HELIUM TEST IN TUBE (PPM): 0.0%			
SORBENT TUBE			
SAMPLE START DATE/TIME - SORBENT TUBE: 13:52			
SAMPLE STOP DATE/TIME - SORBENT TUBE: 17:52			
TOTAL SAMPLE TIME - SORBENT TUBE (MIN): 120			
FLOW RATE - SORBENT TUBE (L/MIN): 0.22808			
VOLUME OF SAMPLE - SORBENT TUBE (LITERS): 27.366			
SUMMA CANISTER			
SAMPLE START DATE/TIME - SUMMA: 13:52			
SAMPLE STOP DATE/TIME - SUMMA: 17:52			
TOTAL SAMPLE TIME - SUMMA (MIN): 120			
FLOW RATE - SUMMA (L/MIN): 0.05			
VOLUME OF SAMPLE - SUMMA (LITERS): 6			
PID AFTER SAMPLE (PPM): 0.0			
SAMPLE MOISTURE CONTENT: N/A			
CAN SERIAL NUMBER: 1942			
REGULATOR SERIAL NUMBER: 426			
CAN START VACUUM PRESS. (" HG): -30.06			
CAN STOP VACUUM PRESS. (" HG): -3.25			
SAMPLE LOCATION SKETCH		NOTES	
See Sample Location Map			
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727			

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV14

PROJECT: 250 Water Street	PROJECT NO.: 170381202	
LOCATION: New York, New York	SURFACE ELEVATION AND DATUM: N/A	
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Services, Corp.	INSTALLATION DATE STARTED: 7/9/2020	DATE FINISHED: 7/9/2020
INSTALLATION FOREMAN: Nick Turro	SAMPLE DATE STARTED: 7/9/2020	DATE FINISHED: 7/9/2020
INSTALLATION EQUIPMENT: Geoprobe 7720 DT	TYPE OF SAMPLING DEVICE: 6-Liter Summa Canister; Sorbent Tube	
INSPECTOR: Thomas Schiefer	SAMPLER: Thomas Schiefer	
POTENTIAL SAMPLE INTERFERENCES: N/A	WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):	
	Temp:	76-80 °F
	Wind:	SE 0-10 mph
	Precipitation:	N/A
	Pressure:	30.07 in. Hg

METHOD OF INSTALLATION:
 A expendable point was advanced to 7 feet below grade surface (bgs) with a Geoprobe 7720 DT and a 2-inch soil vapor pore was installed. The annulus was backfilled with one foot of No. 2 sand and sealed to surface with hydrated bentonite. A maximum initial mercury vapor concentration of 0.55 micrograms per cubic meter (µg/m³) was observed. Sample consisted of a 6L Summa canister fitted with an 2-hour flow control valve and a sorbent tube connected to a SKC air sampling pump with a flow rate of 0.17217L/min. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The summa canister sample and flow controller were checked each hour during sampling to ensure proper operation. Sorbent tube sample collection took place over a period of 2 hours with a total volume of 20.6604 L passing through the tube.

TUBING TYPE/DIAMETER: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene Tubing	TYPE OF MATERIAL ABOVE SEAL: N/A
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-Inch Polyethylene Probe	SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite
BOREHOLE DIAMETER: 2-inch	FILTER PACK MATERIAL (Sand or Glass Beads): No. 2 Sand

PURGE VOLUME (L):	0.80	IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)	DEPTH (FEET FROM SURFACE)	NOTES
PURGE FLOW RATE (ML/MIN):	200	<div style="display: flex; align-items: center;"> <div style="flex: 1; border-left: 1px solid black; position: relative;"> <div style="position: absolute; top: 0; left: 0; right: 0; height: 100%; background: linear-gradient(to top, black 49%, white 49% 51%, white 51% 53%, black 53%);"></div> </div> <div style="flex: 1; padding-left: 5px;"> <div style="position: absolute; top: 0; left: 0; right: 0; height: 100%;"></div> <div style="position: absolute; top: 0; left: 0; right: 0; height: 100%;"></div> </div> </div>		
PID AFTER PURGE (PPM):	0.0			
HELIUM TESTS	Pre-sampling			
HELIUM TEST IN BUCKET(%):	14.2%			
HELIUM TEST IN TUBE (PPM):	0.0%			
SORBENT TUBE				
SAMPLE START DATE/TIME - SORBENT TUBE:	13:03			
SAMPLE STOP DATE/TIME - SORBENT TUBE:	15:03			
TOTAL SAMPLE TIME - SORBENT TUBE (MIN):	120			
FLOW RATE - SORBENT TUBE (L/MIN):	0.17217			
VOLUME OF SAMPLE - SORBENT TUBE (LITERS):	20.660			
SUMMA CANISTER				
SAMPLE START DATE/TIME - SUMMA:	15:20			
SAMPLE STOP DATE/TIME - SUMMA:	17:20			
TOTAL SAMPLE TIME - SUMMA (MIN):	120			
FLOW RATE - SUMMA (L/MIN):	0.05			
VOLUME OF SAMPLE - SUMMA (LITERS):	6			
PID AFTER SAMPLE (PPM):	0.0			
SAMPLE MOISTURE CONTENT:	N/A			
CAN SERIAL NUMBER:	638			
REGULATOR SERIAL NUMBER:	1453			
CAN START VACUUM PRESS. (" HG):	-30.28			
CAN STOP VACUUM PRESS. (" HG):	-2.48			

SAMPLE LOCATION SKETCH	NOTES
See Sample Location Map	

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
 21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV17

PROJECT: 250 Water Street		PROJECT NO.: 170381202	
LOCATION: New York, New York		SURFACE ELEVATION AND DATUM: N/A	
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Services, Corp.		INSTALLATION DATE STARTED: 7/9/2020	DATE FINISHED: 7/9/2020
INSTALLATION FOREMAN: Nick Turro		SAMPLE DATE STARTED: 7/9/2020	DATE FINISHED: 7/9/2020
INSTALLATION EQUIPMENT: Geoprobe 7720 DT		TYPE OF SAMPLING DEVICE: 6-Liter Summa Canister; Sorbent Tube	
INSPECTOR: Thomas Schiefer		SAMPLER: Thomas Schiefer	
POTENTIAL SAMPLE INTERFERENCES: N/A		WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):	
		Temp:	76-80 °F
		Wind:	SE 0-10 mph
		Precipitation:	N/A
		Pressure:	30.07 in. Hg
METHOD OF INSTALLATION: A expendable point was advanced to 7 feet below grade surface (bgs) with a Geoprobe 7720 DT and a 2-inch soil vapor pore was installed. The annulus was backfilled with one foot of No. 2 sand and sealed to surface with hydrated bentonite. A maximum initial mercury vapor concentration of 0.17 micrograms per cubic meter (µg/m3) was observed. Sample consisted of a 6L Summa canister fitted with an 2-hour flow control valve and a sorbent tube connected to a SKC air sampling pump with a flow rate of 0.19415 L/min. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The summa cannister sample and flow controller were checked each hour during sampling to ensure proper operation. Sorbent tube sample collection took place over a period of 2 hours and 2 minutes with a total volume of 23.248 L passing through the tube.			
TUBING TYPE/DIAMETER: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene Tubing		TYPE OF MATERIAL ABOVE SEAL: N/A	
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-Inch Polyethylene Probe		SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite	
BOREHOLE DIAMETER: 2-inch		FILTER PACK MATERIAL (Sand or Glass Beads): No. 2 Sand	
PURGE VOLUME (L): 0.80		IMPLANT/PROBE DETAILS	
PURGE FLOW RATE (ML/MIN): 200		(SEAL, FILTER, ETC.)	
PID AFTER PURGE (PPM): 0.0		DEPTH	
HELIUM TESTS Pre-sampling		(FEET FROM SURFACE)	
HELIUM TEST IN BUCKET(%): 17.6%		NOTES	
HELIUM TEST IN TUBE (PPM): 0.0%			
SORBENT TUBE			
SAMPLE START DATE/TIME - SORBENT TUBE: 11:12			
SAMPLE STOP DATE/TIME - SORBENT TUBE: 13:14			
TOTAL SAMPLE TIME - SORBENT TUBE (MIN): 122			
FLOW RATE - SORBENT TUBE (L/MIN): 0.19415			
VOLUME OF SAMPLE - SORBENT TUBE (LITERS): 23.248			
SUMMA CANNISTER			
SAMPLE START DATE/TIME - SUMMA: 15:20			
SAMPLE STOP DATE/TIME - SUMMA: 17:20			
TOTAL SAMPLE TIME - SUMMA (MIN): 120			
FLOW RATE - SUMMA (L/MIN): 0.05			
VOLUME OF SAMPLE - SUMMA (LITERS): 6			
PID AFTER SAMPLE (PPM): 0.0			
SAMPLE MOISTURE CONTENT: N/A			
CAN SERIAL NUMBER: 1821			
REGULATOR SERIAL NUMBER: 1834			
CAN START VACUUM PRESS. (" HG): -30.68			
CAN STOP VACUUM PRESS. (" HG): -8.36			
SAMPLE LOCATION SKETCH		NOTES	
See Sample Location Map		Sorbent tube and summa cannister samples for DUP01_070920 collected in tandem with	
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SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV19

PROJECT: 250 Water Street		PROJECT NO.: 170381202	
LOCATION: New York, New York		SURFACE ELEVATION AND DATUM: N/A	
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Services, Corp.		INSTALLATION DATE STARTED: 7/8/2020	
INSTALLATION FOREMAN: Nick Turro		DATE FINISHED: 7/8/2020	
INSTALLATION EQUIPMENT: Geoprobe 7720 DT		SAMPLE DATE STARTED: 7/9/2020	
INSPECTOR: Thomas Schiefer		DATE FINISHED: 7/9/2020	
POTENTIAL SAMPLE INTERFERENCES: N/A		TYPE OF SAMPLING DEVICE: 6-Liter Summa Canister; Sorbent Tube	
		SAMPLER: Thomas Schiefer	
		WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):	
		Temp:	76-80 °F
		Wind:	SE 0-10 mph
		Precipitation:	N/A
		Pressure:	30.07 in. Hg
METHOD OF INSTALLATION: A expendable point was advanced to 7 feet below grade surface (bgs) with a Geoprobe 7720 DT and a 2-inch soil vapor pore was installed. The annulus was backfilled with one foot of No. 2 sand and sealed to surface with hydrated bentonite. Initial mercury vapor concentrations above background levels were not observed. Sample consisted of a 6L Summa canister fitted with an 2-hour flow control valve and a sorbent tube connected to a SKC air sampling pump with a flow rate of 0.18900 L/min. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The summa cannister sample and flow controller were checked each hour during sampling to ensure proper operation. Sorbent tube sample collection took place over a period of 2 hours and 4 minutes with a total volume of 23.426 L passing through the tube.			
TUBING TYPE/DIAMETER: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene Tubing		TYPE OF MATERIAL ABOVE SEAL: N/A	
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-Inch Polyethylene Probe		SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite	
BOREHOLE DIAMETER: 2-inch		FILTER PACK MATERIAL (Sand or Glass Beads): No. 2 Sand	
PURGE VOLUME (L): 0.80 PURGE FLOW RATE (ML/MIN): 200 PID AFTER PURGE (PPM): 0.0 HELIUM TESTS Pre-sampling HELIUM TEST IN BUCKET(%): 12.2% HELIUM TEST IN TUBE (PPM): 0.0%		IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.) SURFACE SURFACE Top of Seal Top of Pack	
SORBENT TUBE SAMPLE START DATE/TIME - SORBENT TUBE: 16:21 SAMPLE STOP DATE/TIME - SORBENT TUBE: 18:24 TOTAL SAMPLE TIME - SORBENT TUBE (MIN): 124 FLOW RATE - SORBENT TUBE (L/MIN): 0.189 VOLUME OF SAMPLE - SORBENT TUBE (LITERS): 23.436		DEPTH (FEET FROM SURFACE) 0 6 7	
SUMMA CANISTER SAMPLE START DATE/TIME - SUMMA: 16:20 SAMPLE STOP DATE/TIME - SUMMA: 18:21 TOTAL SAMPLE TIME - SUMMA (MIN): 120 FLOW RATE - SUMMA (L/MIN): 0.05 VOLUME OF SAMPLE - SUMMA (LITERS): 6 PID AFTER SAMPLE (PPM): 0.0 SAMPLE MOISTURE CONTENT: N/A CAN SERIAL NUMBER: 2637 REGULATOR SERIAL NUMBER: 1078 CAN START VACUUM PRESS. (" HG): -30.15 CAN STOP VACUUM PRESS. (" HG): -7.74			
SAMPLE LOCATION SKETCH		NOTES	
See Sample Location Map			
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727			

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV21

PROJECT: 250 Water Street		PROJECT NO.: 170381202			
LOCATION: New York, New York		SURFACE ELEVATION AND DATUM: N/A			
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Services, Corp.		INSTALLATION DATE STARTED: 7/8/2020	DATE FINISHED: 7/8/2020		
INSTALLATION FOREMAN: Nick Turro		SAMPLE DATE STARTED: 7/9/2020	DATE FINISHED: 7/9/2020		
INSTALLATION EQUIPMENT: Geoprobe 7720 DT		TYPE OF SAMPLING DEVICE: 6-Liter Summa Canister; Sorbent Tube			
INSPECTOR: Thomas Schiefer		SAMPLER: Thomas Schiefer			
POTENTIAL SAMPLE INTERFERENCES: N/A		WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):			
		Temp:	76-80 °F		
		Wind:	SE 0-10 mph		
		Precipitation:	N/A		
		Pressure:	30.07 in. Hg		
METHOD OF INSTALLATION: A expendable point was advanced to 7 feet below grade surface (bgs) with a Geoprobe 7720 DT and a 2-inch soil vapor pore was installed. The annulus was backfilled with one foot of No. 2 sand and sealed to surface with hydrated bentonite. Initial mercury vapor concentrations above background levels were not observed. Sample consisted of a 6L Summa canister fitted with an 2-hour flow control valve and a sorbent tube connected to a SKC air sampling pump with a flow rate of 0.16265 L/min. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The summa cannister sample and flow controller were checked each hour during sampling to ensure proper operation. Sorbent tube sample collection took place over a period of 2 hours with a total volume of 19.518 L passing through the tube.					
TUBING TYPE/DIAMETER: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene Tubing		TYPE OF MATERIAL ABOVE SEAL: N/A			
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-Inch Polyethylene Probe		SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite			
BOREHOLE DIAMETER: 2-inch		FILTER PACK MATERIAL (Sand or Glass Beads): No. 2 Sand			
PURGE VOLUME (L):	0.80		IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.) SURFACE SURFACE SURFACE Top of Seal Top of Pack 7	DEPTH (FEET FROM SURFACE) 0 6 7	NOTES
PURGE FLOW RATE (ML/MIN):	200				
PID AFTER PURGE (PPM):	0.0				
HELIUM TESTS	Pre-sampling				
HELIUM TEST IN BUCKET(%):	15.2%				
HELIUM TEST IN TUBE (PPM):	0.0%				
SORBENT TUBE					
SAMPLE START DATE/TIME - SORBENT TUBE:	10:19				
SAMPLE STOP DATE/TIME - SORBENT TUBE:	12:19				
TOTAL SAMPLE TIME - SORBENT TUBE (MIN):	120				
FLOW RATE - SORBENT TUBE (L/MIN):	0.16265				
VOLUME OF SAMPLE - SORBENT TUBE (LITERS):	19.518				
SUMMA CANISTER					
SAMPLE START DATE/TIME - SUMMA:	10:29				
SAMPLE STOP DATE/TIME - SUMMA:	12:29				
TOTAL SAMPLE TIME - SUMMA (MIN):	120				
FLOW RATE - SUMMA (L/MIN):	0.05				
VOLUME OF SAMPLE - SUMMA (LITERS):	6				
PID AFTER SAMPLE (PPM):	0.0				
SAMPLE MOISTURE CONTENT:	N/A				
CAN SERIAL NUMBER:	1554				
REGULATOR SERIAL NUMBER:	938				
CAN START VACUUM PRESS. (" HG):	-30.48				
CAN STOP VACUUM PRESS. (" HG):	-5.45				
SAMPLE LOCATION SKETCH		NOTES			
See Sample Location Map					
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SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV23

PROJECT: 250 Water Street		PROJECT NO.: 170381202	
LOCATION: New York, New York		SURFACE ELEVATION AND DATUM: N/A	
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Services, Corp.		INSTALLATION DATE STARTED: 7/9/2020	DATE FINISHED: 7/9/2020
INSTALLATION FOREMAN: Nick Turro		SAMPLE DATE STARTED: 7/9/2020	DATE FINISHED: 7/9/2020
INSTALLATION EQUIPMENT: Geoprobe 7720 DT		TYPE OF SAMPLING DEVICE: 6-Liter Summa Canister; Sorbent Tube	
INSPECTOR: Thomas Schiefer		SAMPLER: Thomas Schiefer	
POTENTIAL SAMPLE INTERFERENCES: N/A		WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):	
		Temp:	76-80 °F
		Wind:	SE 0-10 mph
		Precipitation:	N/A
		Pressure:	30.07 in. Hg
METHOD OF INSTALLATION: A expendable point was advanced to 7 feet below grade surface (bgs) with a Geoprobe 7720 DT and a 2-inch soil vapor pore was installed. The annulus was backfilled with one foot of No. 2 sand and sealed to surface with hydrated bentonite. A maximum initial mercury vapor concentration of 0.23 micrograms per cubic meter (µg/m3) was observed. Sample consisted of a 6L Summa canister fitted with an 2-hour flow control valve and a sorbent tube connected to a SKC air sampling pump with a flow rate of 0.21170 L/min. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The summa canister sample and flow controller were checked each hour during sampling to ensure proper operation. Sorbent tube sample collection took place over a period of 2 hours with a total volume of 25.404 L passing through the tube.			
TUBING TYPE/DIAMETER: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene Tubing		TYPE OF MATERIAL ABOVE SEAL: N/A	
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-Inch Polyethylene Probe		SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite	
BOREHOLE DIAMETER: 2-inch		FILTER PACK MATERIAL (Sand or Glass Beads): No. 2 Sand	
PURGE VOLUME (L):	0.80		NOTES
PURGE FLOW RATE (ML/MIN):	200		
PID AFTER PURGE (PPM):	0.0		
HELIUM TESTS	Pre-sampling		
HELIUM TEST IN BUCKET(%):	10.8%		
HELIUM TEST IN TUBE (PPM):	0.0%		
SORBENT TUBE			
SAMPLE START DATE/TIME - SORBENT TUBE:	15:48		
SAMPLE STOP DATE/TIME - SORBENT TUBE:	17:48		
TOTAL SAMPLE TIME - SORBENT TUBE (MIN):	120		
FLOW RATE - SORBENT TUBE (L/MIN):	0.2117		
VOLUME OF SAMPLE - SORBENT TUBE (LITERS):	25.404		
SUMMA CANISTER			
SAMPLE START DATE/TIME - SUMMA:	15:48		
SAMPLE STOP DATE/TIME - SUMMA:	17:48		
TOTAL SAMPLE TIME - SUMMA (MIN):	120		
FLOW RATE - SUMMA (L/MIN):	0.05		
VOLUME OF SAMPLE - SUMMA (LITERS):	6		
PID AFTER SAMPLE (PPM):	0.0		
SAMPLE MOISTURE CONTENT:	N/A		
CAN SERIAL NUMBER:	2886		
REGULATOR SERIAL NUMBER:	1924		
CAN START VACUUM PRESS. (" HG):	-30.28		
CAN STOP VACUUM PRESS. (" HG):	-9.44		
SAMPLE LOCATION SKETCH		NOTES	
See Sample Location Map			
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SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV24

PROJECT: 250 Water Street		PROJECT NO.: 170381202																
LOCATION: New York, New York		SURFACE ELEVATION AND DATUM: N/A																
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Services, Corp.		INSTALLATION DATE STARTED: 7/8/2020																
INSTALLATION FOREMAN: Nick Turro		DATE FINISHED: 7/8/2020																
INSTALLATION EQUIPMENT: Geoprobe 7720 DT		SAMPLE DATE STARTED: 7/9/2020																
INSPECTOR: Thomas Schiefer		DATE FINISHED: 7/9/2020																
POTENTIAL SAMPLE INTERFERENCES: N/A		TYPE OF SAMPLING DEVICE: 6-Liter Summa Canister; Sorbent Tube																
		SAMPLER: Thomas Schiefer																
		WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):																
		Temp:	76-80 °F															
		Wind:	SE 0-10 mph															
		Precipitation:	N/A															
		Pressure:	30.07 in. Hg															
METHOD OF INSTALLATION: A expendable point was advanced to 7 feet below grade surface (bgs) with a Geoprobe 7720 DT and a 2-inch soil vapor pore was installed. The annulus was backfilled with one foot of No. 2 sand and sealed to surface with hydrated bentonite. Initial mercury vapor concentrations above background levels were not observed. Sample consisted of a 6L Summa canister fitted with an 2-hour flow control valve and a sorbent tube connected to a SKC air sampling pump with a flow rate of 0.19632 L/min. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The summa cannister sample and flow controller were checked each hour during sampling to ensure proper operation. Sorbent tube sample collection took place over a period of 2 hours with a total volume of 23.558 L passing through the tube.																		
TUBING TYPE/DIAMETER: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene Tubing		TYPE OF MATERIAL ABOVE SEAL: N/A																
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-Inch Polyethylene Probe		SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite																
BOREHOLE DIAMETER: 2-inch		FILTER PACK MATERIAL (Sand or Glass Beads): No. 2 Sand																
PURGE VOLUME (L): 0.80		<table border="1"> <thead> <tr> <th>IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)</th> <th>DEPTH (FEET FROM SURFACE)</th> <th>NOTES</th> </tr> </thead> <tbody> <tr> <td>SURFACE</td> <td></td> <td></td> </tr> <tr> <td>Top of Seal</td> <td>0</td> <td></td> </tr> <tr> <td>Top of Pack</td> <td>6</td> <td></td> </tr> <tr> <td></td> <td>7</td> <td></td> </tr> </tbody> </table>		IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)	DEPTH (FEET FROM SURFACE)	NOTES	SURFACE			Top of Seal	0		Top of Pack	6			7	
IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)	DEPTH (FEET FROM SURFACE)			NOTES														
SURFACE																		
Top of Seal	0																	
Top of Pack	6																	
	7																	
PURGE FLOW RATE (ML/MIN): 200																		
PID AFTER PURGE (PPM): 0.0																		
HELIUM TESTS Pre-sampling																		
HELIUM TEST IN BUCKET(%): 14.6%																		
HELIUM TEST IN TUBE (PPM): 0.0%																		
SORBENT TUBE																		
SAMPLE START DATE/TIME - SORBENT TUBE: 10:57																		
SAMPLE STOP DATE/TIME - SORBENT TUBE: 12:57																		
TOTAL SAMPLE TIME - SORBENT TUBE (MIN): 120																		
FLOW RATE - SORBENT TUBE (L/MIN): 0.19632																		
VOLUME OF SAMPLE - SORBENT TUBE (LITERS): 23.558																		
SUMMA CANISTER																		
SAMPLE START DATE/TIME - SUMMA: 11:01																		
SAMPLE STOP DATE/TIME - SUMMA: 13:01																		
TOTAL SAMPLE TIME - SUMMA (MIN): 120																		
FLOW RATE - SUMMA (L/MIN): 0.05																		
VOLUME OF SAMPLE - SUMMA (LITERS): 6																		
PID AFTER SAMPLE (PPM): 0.0																		
SAMPLE MOISTURE CONTENT: N/A																		
CAN SERIAL NUMBER: 905																		
REGULATOR SERIAL NUMBER: 1532																		
CAN START VACUUM PRESS. (" HG): -30.16																		
CAN STOP VACUUM PRESS. (" HG): -7.47																		
SAMPLE LOCATION SKETCH		NOTES																
See Sample Location Map																		
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SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV28

PROJECT: 250 Water Street		PROJECT NO.: 170381202	
LOCATION: New York, New York		SURFACE ELEVATION AND DATUM: N/A	
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Services, Corp.		INSTALLATION DATE STARTED: 7/9/2020	DATE FINISHED: 7/9/2020
INSTALLATION FOREMAN: Nick Turro		SAMPLE DATE STARTED: 7/9/2020	DATE FINISHED: 7/9/2020
INSTALLATION EQUIPMENT: Geoprobe 7720 DT		TYPE OF SAMPLING DEVICE: 6-Liter Summa Canister; Sorbent Tube	
INSPECTOR: Thomas Schiefer		SAMPLER: Thomas Schiefer	
POTENTIAL SAMPLE INTERFERENCES: N/A		WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):	
		Temp:	76-80 °F
		Wind:	SE 0-10 mph
		Precipitation:	N/A
		Pressure:	30.07 in. Hg
METHOD OF INSTALLATION: A expendable point was advanced to 7 feet below grade surface (bgs) with a Geoprobe 7720 DT and a 2-inch soil vapor pore was installed. The annulus was backfilled with one foot of No. 2 sand and sealed to surface with hydrated bentonite. A maximum initial mercury vapor concentration of 0.16 micrograms per cubic meter (µg/m3) was observed. Sample consisted of a 6L Summa canister fitted with an 2-hour flow control valve and a sorbent tube connected to a SKC air sampling pump with a flow rate of 0.18567 L/min. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The summa canister sample and flow controller were checked each hour during sampling to ensure proper operation. Sorbent tube sample collection took place over a period of 2 hours and 1 minute with a total volume of 22.466 L passing through the tube.			
TUBING TYPE/DIAMETER: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene Tubing		TYPE OF MATERIAL ABOVE SEAL: N/A	
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-Inch Polyethylene Probe		SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite	
BOREHOLE DIAMETER: 2-inch		FILTER PACK MATERIAL (Sand or Glass Beads): No. 2 Sand	
PURGE VOLUME (L):	0.80		
PURGE FLOW RATE (ML/MIN):	200		
PID AFTER PURGE (PPM):	0.0		
HELIUM TESTS	Pre-sampling		
HELIUM TEST IN BUCKET(%):	16.2%		
HELIUM TEST IN TUBE (PPM):	0.0%		
SORBENT TUBE			
SAMPLE START DATE/TIME - SORBENT TUBE:	16:06		
SAMPLE STOP DATE/TIME - SORBENT TUBE:	18:07		
TOTAL SAMPLE TIME - SORBENT TUBE (MIN):	121		
FLOW RATE - SORBENT TUBE (L/MIN):	0.18567		
VOLUME OF SAMPLE - SORBENT TUBE (LITERS):	22.466		
SUMMA CANISTER			
SAMPLE START DATE/TIME - SUMMA:	16:06		
SAMPLE STOP DATE/TIME - SUMMA:	18:06		
TOTAL SAMPLE TIME - SUMMA (MIN):	120		
FLOW RATE - SUMMA (L/MIN):	0.05		
VOLUME OF SAMPLE - SUMMA (LITERS):	6		
PID AFTER SAMPLE (PPM):	0.0		
SAMPLE MOISTURE CONTENT:	N/A		
CAN SERIAL NUMBER:	2950		
REGULATOR SERIAL NUMBER:	341		
CAN START VACUUM PRESS. (" HG):	-30.22		
CAN STOP VACUUM PRESS. (" HG):	-5.49		
SAMPLE LOCATION SKETCH		NOTES	
See Sample Location Map			
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SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV29

PROJECT: 250 Water Street		PROJECT NO.: 170381202	
LOCATION: New York, New York		SURFACE ELEVATION AND DATUM: N/A	
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Services, Corp.		INSTALLATION DATE STARTED: 7/9/2020	DATE FINISHED: 7/9/2020
INSTALLATION FOREMAN: Nick Turro		SAMPLE DATE STARTED: 7/9/2020	DATE FINISHED: 7/9/2020
INSTALLATION EQUIPMENT: Geoprobe 7720 DT		TYPE OF SAMPLING DEVICE: 6-Liter Summa Canister; Sorbent Tube	
INSPECTOR: Thomas Schiefer		SAMPLER: Thomas Schiefer	
POTENTIAL SAMPLE INTERFERENCES: N/A		WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):	
		Temp:	76-80 °F
		Wind:	SE 0-10 mph
		Precipitation:	N/A
		Pressure:	30.07 in. Hg
METHOD OF INSTALLATION: A expendable point was advanced to 8 feet below grade surface (bgs) with a Geoprobe 7720 DT and a 2-inch soil vapor pore was installed. The annulus was backfilled with one foot of No. 2 sand and sealed to surface with hydrated bentonite. A maximum initial mercury vapor concentration of 0.08 micrograms per cubic meter (µg/m3) was observed. Sample consisted of a 6L Summa canister fitted with an 2-hour flow control valve and a sorbent tube connected to a SKC air sampling pump with a flow rate of 0.20968 L/min. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The summa canister sample and flow controller were checked each hour during sampling to ensure proper operation. Sorbent tube sample collection took place over a period of 2 hours with a total volume of 25.1616 L passing through the tube.			
TUBING TYPE/DIAMETER: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene Tubing		TYPE OF MATERIAL ABOVE SEAL: N/A	
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-Inch Polyethylene Probe		SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite	
BOREHOLE DIAMETER: 2-inch		FILTER PACK MATERIAL (Sand or Glass Beads): No. 2 Sand	
PURGE VOLUME (L):	0.80	IMPLANT/PROBE DETAILS	
PURGE FLOW RATE (ML/MIN):	200	(SEAL, FILTER, ETC.)	
PID AFTER PURGE (PPM):	0.0	SURFACE SURFACE	
HELIUM TESTS	Pre-sampling		
HELIUM TEST IN BUCKET(%):	13.1%		
HELIUM TEST IN TUBE (PPM):	0.0%		
SORBENT TUBE			
SAMPLE START DATE/TIME - SORBENT TUBE:	14:37		
SAMPLE STOP DATE/TIME - SORBENT TUBE:	16:37		
TOTAL SAMPLE TIME - SORBENT TUBE (MIN):	120		
FLOW RATE - SORBENT TUBE (L/MIN):	0.20968		
VOLUME OF SAMPLE - SORBENT TUBE (LITERS):	25.1616		
SUMMA CANISTER			
SAMPLE START DATE/TIME - SUMMA:	14:32		
SAMPLE STOP DATE/TIME - SUMMA:	16:35		
TOTAL SAMPLE TIME - SUMMA (MIN):	123		
FLOW RATE - SUMMA (L/MIN):	0.048		
VOLUME OF SAMPLE - SUMMA (LITERS):	5.904		
PID AFTER SAMPLE (PPM):	0.0		
SAMPLE MOISTURE CONTENT:	N/A		
CAN SERIAL NUMBER:	2252		
REGULATOR SERIAL NUMBER:	1746		
CAN START VACUUM PRESS. (" HG):	-30.51		
CAN STOP VACUUM PRESS. (" HG):	-6.52		
SAMPLE LOCATION SKETCH			
See Sample Location Map			
NOTES			
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SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV30

PROJECT: 250 Water Street		PROJECT NO.: 170381202	
LOCATION: New York, New York		SURFACE ELEVATION AND DATUM: N/A	
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Services, Corp.		INSTALLATION DATE STARTED: 7/9/2020	DATE FINISHED: 7/9/2020
INSTALLATION FOREMAN: Nick Turro		SAMPLE DATE STARTED: 7/9/2020	DATE FINISHED: 7/9/2020
INSTALLATION EQUIPMENT: Geoprobe 7720 DT		TYPE OF SAMPLING DEVICE: 6-Liter Summa Canister; Sorbent Tube	
INSPECTOR: Thomas Schiefer		SAMPLER: Thomas Schiefer	
POTENTIAL SAMPLE INTERFERENCES: N/A		WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):	
		Temp:	76-80 °F
		Wind:	SE 0-10 mph
		Precipitation:	N/A
		Pressure:	30.07 in. Hg
METHOD OF INSTALLATION: A expendable point was advanced to 7 feet below grade surface (bgs) with a Geoprobe 7720 DT and a 2-inch soil vapor pore was installed. The annulus was backfilled with one foot of No. 2 sand and sealed to surface with hydrated bentonite. Initial mercury vapor concentrations above background levels were not observed. Sample consisted of a 6L Summa canister fitted with an 2-hour flow control valve and a sorbent tube connected to a SKC air sampling pump with a flow rate of 0.17218 L/min. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The summa cannister sample and flow controller were checked each hour during sampling to ensure proper operation. Sorbent tube sample collection took place over a period of 2 hours and 1 minute with a total volume of 20.833 L passing through the tube.			
TUBING TYPE/DIAMETER: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene Tubing		TYPE OF MATERIAL ABOVE SEAL: N/A	
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-Inch Polyethylene Probe		SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite	
BOREHOLE DIAMETER: 2-inch		FILTER PACK MATERIAL (Sand or Glass Beads): No. 2 Sand	
PURGE VOLUME (L): 0.80		IMPLANT/PROBE DETAILS	
PURGE FLOW RATE (ML/MIN): 200		(SEAL, FILTER, ETC.)	
PID AFTER PURGE (PPM): 0.0		DEPTH	
HELIUM TESTS Pre-sampling		(FEET FROM SURFACE)	
HELIUM TEST IN BUCKET(%): 18.8%		NOTES	
HELIUM TEST IN TUBE (PPM): 0.0%			
SORBENT TUBE			
SAMPLE START DATE/TIME - SORBENT TUBE: 15:33			
SAMPLE STOP DATE/TIME - SORBENT TUBE: 17:34			
TOTAL SAMPLE TIME - SORBENT TUBE (MIN): 121			
FLOW RATE - SORBENT TUBE (L/MIN): 0.17218			
VOLUME OF SAMPLE - SORBENT TUBE (LITERS): 20.833			
SUMMA CANISTER			
SAMPLE START DATE/TIME - SUMMA: 15:13			
SAMPLE STOP DATE/TIME - SUMMA: 17:13			
TOTAL SAMPLE TIME - SUMMA (MIN): 120			
FLOW RATE - SUMMA (L/MIN): 0.05			
VOLUME OF SAMPLE - SUMMA (LITERS): 6			
PID AFTER SAMPLE (PPM): 0.0			
SAMPLE MOISTURE CONTENT: N/A			
CAN SERIAL NUMBER: 2729			
REGULATOR SERIAL NUMBER: 954			
CAN START VACUUM PRESS. (" HG): -27.51			
CAN STOP VACUUM PRESS. (" HG): -4.98			
SAMPLE LOCATION SKETCH		NOTES	
See Sample Location Map			
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SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV32

PROJECT: 250 Water Street		PROJECT NO.: 170381202	
LOCATION: New York, New York		SURFACE ELEVATION AND DATUM: N/A	
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Services, Corp.		INSTALLATION DATE STARTED: 7/9/2020	DATE FINISHED: 7/9/2020
INSTALLATION FOREMAN: Nick Turro		SAMPLE DATE STARTED: 7/9/2020	DATE FINISHED: 7/9/2020
INSTALLATION EQUIPMENT: Geoprobe 7720 DT		TYPE OF SAMPLING DEVICE: 6-Liter Summa Canister; Sorbent Tube	
INSPECTOR: Thomas Schiefer		SAMPLER: Thomas Schiefer	
POTENTIAL SAMPLE INTERFERENCES: N/A		WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):	
		Temp:	76-80 °F
		Wind:	SE 0-10 mph
		Precipitation:	N/A
		Pressure:	30.07 in. Hg
METHOD OF INSTALLATION: A expendable point was advanced to 7 feet below grade surface (bgs) with a Geoprobe 7720 DT and a 2-inch soil vapor pore was installed. The annulus was backfilled with one foot of No. 2 sand and sealed to surface with hydrated bentonite. Initial mercury vapor concentrations above background levels were not observed. Sample consisted of a 6L Summa canister fitted with an 2-hour flow control valve and a sorbent tube connected to a SKC air sampling pump with a flow rate of 0.19249 L/min. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The summa cannister sample and flow controller were checked each hour during sampling to ensure proper operation. Sorbent tube sample collection took place over a period of 2 hours and 4 minutes with a total volume of 23.099 L passing through the tube.			
TUBING TYPE/DIAMETER: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene Tubing		TYPE OF MATERIAL ABOVE SEAL: N/A	
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-Inch Polyethylene Probe		SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite	
BOREHOLE DIAMETER: 2-inch		FILTER PACK MATERIAL (Sand or Glass Beads): No. 2 Sand	
PURGE VOLUME (L):	0.80	IMPLANT/PROBE DETAILS	
PURGE FLOW RATE (ML/MIN):	200	(SEAL, FILTER, ETC.)	
PID AFTER PURGE (PPM):	0.0	SURFACE SURFACE SURFACE	
HELIUM TESTS	Pre-sampling		
HELIUM TEST IN BUCKET(%):	13.8%		
HELIUM TEST IN TUBE (PPM):	0.0%		
SORBENT TUBE			
SAMPLE START DATE/TIME - SORBENT TUBE:	15:33		
SAMPLE STOP DATE/TIME - SORBENT TUBE:	17:33		
TOTAL SAMPLE TIME - SORBENT TUBE (MIN):	120		
FLOW RATE - SORBENT TUBE (L/MIN):	0.19249		
VOLUME OF SAMPLE - SORBENT TUBE (LITERS):	23.099		
SUMMA CANISTER			
SAMPLE START DATE/TIME - SUMMA:	15:33		
SAMPLE STOP DATE/TIME - SUMMA:	17:33		
TOTAL SAMPLE TIME - SUMMA (MIN):	120		
FLOW RATE - SUMMA (L/MIN):	0.05		
VOLUME OF SAMPLE - SUMMA (LITERS):	6		
PID AFTER SAMPLE (PPM):	0.0		
SAMPLE MOISTURE CONTENT:	N/A		
CAN SERIAL NUMBER:	629		
REGULATOR SERIAL NUMBER:	1195		
CAN START VACUUM PRESS. (" HG):	-29.97	7	
CAN STOP VACUUM PRESS. (" HG):	-6.1		
SAMPLE LOCATION SKETCH		NOTES	
See Sample Location Map			
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727			

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV37

PROJECT: 250 Water Street		PROJECT NO.: 170381202	
LOCATION: New York, New York		SURFACE ELEVATION AND DATUM: N/A	
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Services, Corp.		INSTALLATION DATE STARTED: 7/9/2020	DATE FINISHED: 7/9/2020
INSTALLATION FOREMAN: Nick Turro		SAMPLE DATE STARTED: 7/9/2020	DATE FINISHED: 7/9/2020
INSTALLATION EQUIPMENT: Geoprobe 7720 DT		TYPE OF SAMPLING DEVICE: 6-Liter Summa Canister; Sorbent Tube	
INSPECTOR: Thomas Schiefer		SAMPLER: Thomas Schiefer	
POTENTIAL SAMPLE INTERFERENCES: N/A		WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):	
		Temp:	76-80 °F
		Wind:	SE 0-10 mph
		Precipitation:	N/A
		Pressure:	30.07 in. Hg
METHOD OF INSTALLATION: A expendable point was advanced to 7 feet below grade surface (bgs) with a Geoprobe 7720 DT and a 2-inch soil vapor pore was installed. The annulus was backfilled with one foot of No. 2 sand and sealed to surface with hydrated bentonite. A maximum initial mercury vapor concentration of 1.13 micrograms per cubic meter (µg/m3) was observed; however subsequent readings after purging, and prior to sampling, were not observed above background. Sample consisted of a 6L Summa canister fitted with an 2-hour flow control valve and a sorbent tube connected to a SKC air sampling pump with a flow rate of 0.2205 L/min. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The summa cannister sample and flow controller were checked each hour during sampling to ensure proper operation. Sorbent tube sample collection took place over a period of 2 hours with a total			
TUBING TYPE/DIAMETER: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene Tubing		TYPE OF MATERIAL ABOVE SEAL: N/A	
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-Inch Polyethylene Probe		SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite	
BOREHOLE DIAMETER: 2-inch		FILTER PACK MATERIAL (Sand or Glass Beads): No. 2 Sand	
PURGE VOLUME (L):	0.80		NOTES
PURGE FLOW RATE (ML/MIN):	200		
PID AFTER PURGE (PPM):	0.0		
HELIUM TESTS	Pre-sampling		
HELIUM TEST IN BUCKET(%):	12.0%		
HELIUM TEST IN TUBE (PPM):	0.0%		
SORBENT TUBE			
SAMPLE START DATE/TIME - SORBENT TUBE:	13:20		
SAMPLE STOP DATE/TIME - SORBENT TUBE:	15:20		
TOTAL SAMPLE TIME - SORBENT TUBE (MIN):	120		
FLOW RATE - SORBENT TUBE (L/MIN):	0.2205		
VOLUME OF SAMPLE - SORBENT TUBE (LITERS):	26.460		
SUMMA CANISTER			
SAMPLE START DATE/TIME - SUMMA:	13:20		
SAMPLE STOP DATE/TIME - SUMMA:	15:20		
TOTAL SAMPLE TIME - SUMMA (MIN):	120		
FLOW RATE - SUMMA (L/MIN):	0.05		
VOLUME OF SAMPLE - SUMMA (LITERS):	6		
PID AFTER SAMPLE (PPM):	0.0		
SAMPLE MOISTURE CONTENT:	N/A		
CAN SERIAL NUMBER:	925		
REGULATOR SERIAL NUMBER:	1794		
CAN START VACUUM PRESS. (" HG):	-29.88		
CAN STOP VACUUM PRESS. (" HG):	-6.99		
SAMPLE LOCATION SKETCH		NOTES	
See Sample Location Map			
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727			

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV38

PROJECT: 250 Water Street		PROJECT NO.: 170381202	
LOCATION: New York, New York		SURFACE ELEVATION AND DATUM: N/A	
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Services, Corp.		INSTALLATION DATE STARTED: 8/3/3030	
		DATE FINISHED: 8/3/2020	
INSTALLATION FOREMAN: Sergio Magana		SAMPLE DATE STARTED: 8/3/2020	
		DATE FINISHED: 8/3/2020	
INSTALLATION EQUIPMENT: Geoprobe® 7822 DT		TYPE OF SAMPLING DEVICE: 2.7-Liter Summa Canister	
INSPECTOR: Adrian Heath		SAMPLER: Adrian Heath	
POTENTIAL SAMPLE INTERFERENCES: N/A		WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):	
		Temp: Low to Mid 90s °F	
		Wind: SW 0-20 mph	
		Precipitation: N/A	
		Pressure: 30.07 in. Hg	
METHOD OF INSTALLATION: Soil boring SB38 was advanced to 24 feet below grade surface (bgs) with a Geoprobe 7822 DT. The annulus was backfilled to 15 feet bgs and a 2-inch soil vapor probe was installed. No. 2 sand was backfilled to 10 feet bgs, a one-foot hydrated bentonite seal was installed and the boring was backfill with No. 2 sand to 1 foot bgs. The surface was sealed with hydrated bentonite. Sample consisted of 2.7L Summa canister fitted with an 2-hour flow control valve. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The sample and flow controller were checked each hour during sampling to ensure proper operation.			
TUBING TYPE/DIAMETER: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene Tubing		TYPE OF MATERIAL ABOVE SEAL: No. 2 Sand	
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-Inch Polyethylene Probe		SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite	
BOREHOLE DIAMETER: 2-inch		FILTER PACK MATERIAL (Sand or Glass Beads): No. 2 Sand	
PURGE VOLUME (L): 0.80		IMPLANT/PROBE DETAILS	
PURGE FLOW RATE (ML/MIN): 200		(SEAL, FILTER, ETC.)	
PID AFTER PURGE (PPM): 0.9		DEPTH	
HELIUM TESTS Pre-sampling		(FEET FROM SURFACE)	
HELIUM TEST IN BUCKET(%): 29.4%		NOTES	
HELIUM TEST IN TUBE (PPM): 0.0%			
SORBENT TUBE			
SAMPLE START DATE/TIME - SORBENT TUBE: 14:09			
SAMPLE STOP DATE/TIME - SORBENT TUBE: 16:09			
TOTAL SAMPLE TIME - SORBENT TUBE (MIN): 120			
FLOW RATE - SORBENT TUBE (L/MIN): 0.23996			
VOLUME OF SAMPLE - SORBENT TUBE (LITERS): 28.795			
SUMMA CANISTER			
SAMPLE START DATE/TIME - SUMMA: 11:35			
SAMPLE STOP DATE/TIME - SUMMA: 13:56			
TOTAL SAMPLE TIME - SUMMA (MIN): 141			
FLOW RATE - SUMMA (L/MIN): 0.02			
VOLUME OF SAMPLE - SUMMA (LITERS): 2.7			
PID AFTER SAMPLE (PPM): 0.0			
SAMPLE MOISTURE CONTENT: N/A			
CAN SERIAL NUMBER: 232			
REGULATOR SERIAL NUMBER: 808			
CAN START VACUUM PRESS. (" HG): -30.32			
CAN STOP VACUUM PRESS. (" HG): -8.59			
SAMPLE LOCATION SKETCH		NOTES	
See Sample Location Map			
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SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV39

PROJECT: 250 Water Street		PROJECT NO.: 170381202	
LOCATION: New York, New York		SURFACE ELEVATION AND DATUM: N/A	
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Services, Corp.		INSTALLATION DATE STARTED: 8/3/3030	
		DATE FINISHED: 8/3/2020	
INSTALLATION FOREMAN: Sergio Magana		SAMPLE DATE STARTED: 8/3/2020	
		DATE FINISHED: 8/3/2020	
INSTALLATION EQUIPMENT: Geoprobe® 7822 DT		TYPE OF SAMPLING DEVICE: 2.7-Liter Summa Canister	
INSPECTOR: Adrian Heath		SAMPLER: Adrian Heath	
POTENTIAL SAMPLE INTERFERENCES: N/A		WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):	
		Temp: Low to Mid 90s °F	
		Wind: SW 0-20 mph	
		Precipitation: N/A	
		Pressure: 30.07 in. Hg	
METHOD OF INSTALLATION: Soil boring SB39 was advanced to 28 feet below grade surface (bgs) with a Geoprobe 7822 DT. The annulus was backfilled to 15 feet bgs and a 2-inch soil vapor probe was installed. No. 2 sand was backfilled to 10 feet bgs, a one-foot hydrated bentonite seal was installed and the boring was backfill with No. 2 sand to 1 foot bgs. The surface was sealed with hydrated bentonite. Sample consisted of 2.7L Summa canister fitted with an 2-hour flow control valve. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The sample and flow controller were checked each hour during sampling to ensure proper operation.			
TUBING TYPE/DIAMETER: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene Tubing		TYPE OF MATERIAL ABOVE SEAL: No. 2 Sand	
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-Inch Polyethylene Probe		SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite	
BOREHOLE DIAMETER: 2-inch		FILTER PACK MATERIAL (Sand or Glass Beads): No. 2 Sand	
PURGE VOLUME (L): 0.80		IMPLANT/PROBE DETAILS	
PURGE FLOW RATE (ML/MIN): 200		(SEAL, FILTER, ETC.)	
PID AFTER PURGE (PPM): 2.5		DEPTH	
HELIUM TESTS Pre-sampling		(FEET FROM SURFACE)	
HELIUM TEST IN BUCKET(%): 29.0%		NOTES	
HELIUM TEST IN TUBE (PPM): 0.0%			
SORBENT TUBE			
SAMPLE START DATE/TIME - SORBENT TUBE: 14:04			
SAMPLE STOP DATE/TIME - SORBENT TUBE: 16:04			
TOTAL SAMPLE TIME - SORBENT TUBE (MIN): 120			
FLOW RATE - SORBENT TUBE (L/MIN): 0.21742			
VOLUME OF SAMPLE - SORBENT TUBE (LITERS): 26.090			
SUMMA CANISTER			
SAMPLE START DATE/TIME - SUMMA: 11:51			
SAMPLE STOP DATE/TIME - SUMMA: 13:48			
TOTAL SAMPLE TIME - SUMMA (MIN): 117			
FLOW RATE - SUMMA (L/MIN): 0.02			
VOLUME OF SAMPLE - SUMMA (LITERS): 2.7			
PID AFTER SAMPLE (PPM): 0.0			
SAMPLE MOISTURE CONTENT: N/A			
CAN SERIAL NUMBER: 332			
REGULATOR SERIAL NUMBER: 1534			
CAN START VACUUM PRESS. (" HG): -30.45			
CAN STOP VACUUM PRESS. (" HG): -5.98			
SAMPLE LOCATION SKETCH		NOTES	
See Sample Location Map			
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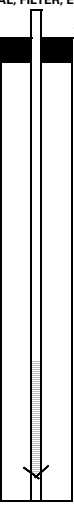
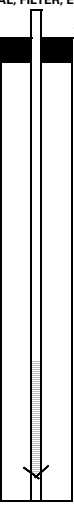
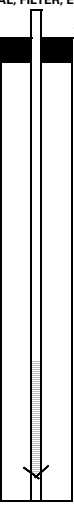
SOIL VAPOR SAMPLING LOG SHEET

Sample Number: V1

PROJECT: 250 Water Street		PROJECT NO.: 170381202																																																																	
LOCATION: New York, New York		SURFACE ELEVATION AND DATUM: N/A																																																																	
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Services, Corp.		INSTALLATION DATE STARTED: 7/9/2020	DATE FINISHED: 7/9/2020																																																																
INSTALLATION FOREMAN: Nick Turro		SAMPLE DATE STARTED: 7/9/2020	DATE FINISHED: 7/9/2020																																																																
INSTALLATION EQUIPMENT: Bosch RH540M Hammer Drill		TYPE OF SAMPLING DEVICE: Sorbent Tube																																																																	
INSPECTOR: Thomas Schiefer		SAMPLER: Thomas Schiefer																																																																	
POTENTIAL SAMPLE INTERFERENCES: N/A		WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):																																																																	
		Temp:	76-80 °F																																																																
		Wind:	SE 0-10 mph																																																																
		Precipitation:	N/A																																																																
Pressure:		30.07 in. Hg																																																																	
METHOD OF INSTALLATION: Sub-slab vapor point V1 was advanced to 1.5 feet below grade surface (bgs) with a Bosch RH540M Hammer Drill. A 2-inch soil vapor probe was installed in the voids space and the surfafce was sealed with hydrated bentonite. A maximum initial mercury vapor concentration of 0.23 micrograms per cubic meter (µg/m3) was observed. Sample consisted of a sorbent tube connected to a SKC air sampling pump with a flow rate of 0.20315 L/min. Sample collection took place over a period of 2 hours with a total volume of 24.378 L passing through the tube.																																																																			
TUBING TYPE/DIAMETER: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene Tubing		TYPE OF MATERIAL ABOVE SEAL: N/A																																																																	
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-Inch Polyethylene Probe		SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite																																																																	
BOREHOLE DIAMETER: 2-inch		FILTER PACK MATERIAL (Sand or Glass Beads): N/A																																																																	
PURGE VOLUME (L):	0.80	<table border="1"> <thead> <tr> <th colspan="2">IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)</th> <th>DEPTH (FEET FROM SURFACE)</th> <th>NOTES</th> </tr> </thead> <tbody> <tr> <td>SURFACE</td> <td>SURFACE</td> <td></td> <td></td> </tr> <tr> <td></td> <td>Top of Seal</td> <td>0</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>1.5</td> <td></td> </tr> </tbody> </table>		IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)		DEPTH (FEET FROM SURFACE)	NOTES	SURFACE	SURFACE				Top of Seal	0																																																				1.5	
IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)				DEPTH (FEET FROM SURFACE)	NOTES																																																														
SURFACE	SURFACE																																																																		
	Top of Seal			0																																																															
				1.5																																																															
PURGE FLOW RATE (ML/MIN):	200																																																																		
PID AFTER PURGE (PPM):	0.3																																																																		
HELIUM TESTS	Pre-sampling																																																																		
HELIUM TEST IN BUCKET(%):	16.0%																																																																		
HELIUM TEST IN TUBE (PPM):	0.0%																																																																		
SAMPLE START DATE/TIME:	14:07																																																																		
SAMPLE STOP DATE/TIME:	16:07																																																																		
TOTAL SAMPLE TIME (MIN):	120																																																																		
FLOW RATE (L/MIN):	0.20315																																																																		
VOLUME OF SAMPLE (LITERS):	24.378																																																																		
PID AFTER SAMPLE (PPM):	N/A																																																																		
SAMPLE MOISTURE CONTENT:	N/A																																																																		
CAN SERIAL NUMBER:	N/A																																																																		
REGULATOR SERIAL NUMBER:	N/A																																																																		
CAN START VACUUM PRESS. (" HG):	N/A																																																																		
CAN STOP VACUUM PRESS. (" HG):	N/A																																																																		
SAMPLE LOCATION SKETCH		<table border="1"> <thead> <tr> <th colspan="2">NOTES</th> </tr> </thead> <tbody> <tr> <td colspan="2">See Sample Location Map</td> </tr> </tbody> </table>		NOTES		See Sample Location Map																																																													
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SOIL VAPOR SAMPLING LOG SHEET

Sample Number: V3

PROJECT: 250 Water Street		PROJECT NO.: 170381202												
LOCATION: New York, New York		SURFACE ELEVATION AND DATUM: N/A												
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Services, Corp.		INSTALLATION DATE STARTED: 7/9/2020	DATE FINISHED: 7/9/2020											
INSTALLATION FOREMAN: Nick Turro		SAMPLE DATE STARTED: 7/9/2020	DATE FINISHED: 7/9/2020											
INSTALLATION EQUIPMENT: Bosch RH540M Hammer Drill		TYPE OF SAMPLING DEVICE: Sorbent Tube												
INSPECTOR: Thomas Schiefer		SAMPLER: Thomas Schiefer												
POTENTIAL SAMPLE INTERFERENCES: N/A		WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):												
		Temp:	76-80 °F											
		Wind:	SE 0-10 mph											
		Precipitation:	N/A											
		Pressure:	30.07 in. Hg											
METHOD OF INSTALLATION: Sub-slab vapor point V3 was advanced to 1.5 feet below grade surface (bgs) with a Bosch RH540M Hammer Drill. A 2-inch soil vapor probe was installed in the voids space and the surfafce was sealed with hydrated bentonite. Mercury vapor concentrations above background levels were not observed. Sample consisted of a sorbent tube connected to a SKC air sampling pump with a flow rate of 0.17628 L/min. Sample collection took place over a period of 2 hours with a total volume of 21.154 L passing through the tube.														
TUBING TYPE/DIAMETER: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene		TYPE OF MATERIAL ABOVE SEAL: N/A												
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-Inch Polyethylene Probe		SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite												
BOREHOLE DIAMETER: 2-inch		FILTER PACK MATERIAL (Sand or Glass Beads): N/A												
PURGE VOLUME (L): 0.80 PURGE FLOW RATE (ML/MIN): 200 PID AFTER PURGE (PPM): 0.3 HELIUM TESTS Pre-sampling HELIUM TEST IN BUCKET(%): 18.3% HELIUM TEST IN TUBE (PPM): 0.0% SAMPLE START DATE/TIME: 12:20 SAMPLE STOP DATE/TIME: 14:20 TOTAL SAMPLE TIME (MIN): 120 FLOW RATE (L/MIN): 0.17628 VOLUME OF SAMPLE (LITERS): 21.154 PID AFTER SAMPLE (PPM): N/A SAMPLE MOISTURE CONTENT: N/A CAN SERIAL NUMBER: N/A REGULATOR SERIAL NUMBER: N/A CAN START VACUUM PRESS. (" HG): N/A CAN STOP VACUUM PRESS. (" HG): N/A		<table border="1"> <thead> <tr> <th colspan="2">IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)</th> <th>DEPTH (FEET FROM SURFACE)</th> <th>NOTES</th> </tr> </thead> <tbody> <tr> <td>SURFACE</td> <td>SURFACE</td> <td>0</td> <td rowspan="2"></td> </tr> <tr> <td colspan="2">  </td> <td>1.5</td> </tr> </tbody> </table>		IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)		DEPTH (FEET FROM SURFACE)	NOTES	SURFACE	SURFACE	0				1.5
IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)		DEPTH (FEET FROM SURFACE)	NOTES											
SURFACE	SURFACE	0												
		1.5												
SAMPLE LOCATION SKETCH		NOTES												
See Sample Location Map														
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SOIL VAPOR SAMPLING LOG SHEET

Sample Number: V5

PROJECT: 250 Water Street		PROJECT NO.: 170381202	
LOCATION: New York, New York		SURFACE ELEVATION AND DATUM: N/A	
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Services, Corp.		INSTALLATION DATE STARTED: 7/8/2020	DATE FINISHED: 7/8/2020
INSTALLATION FOREMAN: Nick Turro		SAMPLE DATE STARTED: 7/9/2020	DATE FINISHED: 7/9/2020
INSTALLATION EQUIPMENT: Bosch RH540M Hammer Drill		TYPE OF SAMPLING DEVICE: Sorbent Tube	
INSPECTOR: Thomas Schiefer		SAMPLER: Thomas Schiefer	
POTENTIAL SAMPLE INTERFERENCES: N/A		WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):	
		Temp:	76-80 °F
		Wind:	SE 0-10 mph
		Precipitation:	N/A
		Pressure:	30.07 in. Hg
METHOD OF INSTALLATION: Sub-slab vapor point V5 was advanced to 1.5 feet below grade surface (bgs) with a Bosch RH540M Hammer Drill. A 2-inch soil vapor probe was installed in the voids space and the surfafce was sealed with hydrated bentonite. A maxiumum initial mercury vapor concentration of 0.12 micrograms per cubic meter (µg/m3) was observed. Sample consisted of a sorbent tube connected to a SKC air sampling pump with a flow rate of 0.20315 L/min. Sample collection took place over a period of 2 hours and 2 minutes with a total volume of 30.40 L passing through the tube.			
TUBING TYPE/DIAMETER: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene		TYPE OF MATERIAL ABOVE SEAL: N/A	
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-Inch Polyethylene Probe		SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite	
BOREHOLE DIAMETER: 2-inch		FILTER PACK MATERIAL (Sand or Glass Beads): N/A	
PURGE VOLUME (L): 0.80		IMPLANT/PROBE DETAILS	
PURGE FLOW RATE (ML/MIN): 200		(SEAL, FILTER, ETC.)	
PID AFTER PURGE (PPM): 0		SURFACE SURFACE	
HELIUM TESTS Pre-sampling		DEPTH (FEET FROM SURFACE)	
HELIUM TEST IN BUCKET(%): 16.0%		NOTES	
HELIUM TEST IN TUBE (PPM): 0.0%			
SAMPLE START DATE/TIME: 14:07			
SAMPLE STOP DATE/TIME: 1:40			
TOTAL SAMPLE TIME (MIN): 122			
FLOW RATE (L/MIN): 0.24921			
VOLUME OF SAMPLE (LITERS): 30.40			
PID AFTER SAMPLE (PPM): N/A			
SAMPLE MOISTURE CONTENT: N/A			
CAN SERIAL NUMBER: N/A			
REGULATOR SERIAL NUMBER: N/A			
CAN START VACUUM PRESS. (" HG): N/A			
CAN STOP VACUUM PRESS. (" HG): N/A			
SAMPLE LOCATION SKETCH			
See Sample Location Map			
		NOTES	
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