Permeable Reactive Barrier Work Plan

BCP No. C360227

Location:

Warburton Dry Cleaners Site
Site No. C360227
305-321 Warburton Avenue,
32 Point Street, and 247-262A
Woodworth Avenue
Yonkers, New York 10701

Prepared for:

Warburton Avenue Apartments, LLC
1000 University Avenue
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1.0 INTRODUCTION

This Permeable Reactive Barrier (PRB) Work Plan has been prepared by LaBella Associates, D.P.C (LaBella) on behalf of the Volunteer, Warburton Avenue Apartments, LLC to support the implementation of remedial activities for the Warburton Dry Cleaners Site (Site), located at 305-321 Warburton Avenue, 32 Point Street, and 247-262A Woodworth Avenue in the City of Yonkers, Westchester County, New York. Details related to the remedial activities are presented in the RAWP dated May 2024. The Site is enrolled in the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) (Site No. C360227).

The objective of this PRB Work Plan is to provide the details on the anticipated extent, depth, injectant material and initial monitoring plan for the PRB. Long-term monitoring of the PRB will be defined in the future Site Management Plan (SMP) to be developed for the Site.

2.0 BACKGROUND

2.1 Site Description

The BCP Site is a (±)1.166-acre property and comprised of 15 tax lots located in a mixed residential and commercial area of Yonkers, New York. The 15 tax lots were merged into one following closing. The Site is currently under active construction. Site redevelopment includes construction of a new residential affordable housing building and a parking lot. Prior uses of the Site include residential housing and commercial auto repair.

The Site is located in a mixed residential and commercial area of Yonkers, New York. A site plan is included as **Figure 1**.

2.2 Site History

The Site has historically been a mixed-use property with both residential and commercial occupants. Commercial occupants included grocers, auto repair, a clothing store, a tailor, a restaurant, a pharmacy, a hardware store, a security service, and a barber shop. Although the City Directory indicates a connection between 28 Point Street, which appears to be co-located with a portion of 321 Warburton Ave., and the Rappaport Plaza Cleaners in 1977 there is no current known evidence that the property was utilized as a dry-cleaning facility.

2.3 Surrounding Properties

Adjacent properties include residential dwellings, commercial storefronts, undeveloped lots, and two former dry cleaning facilities which were historically located adjacent to the Site, including the Former Rappaport Plaza Cleaners, located across the street to the east at 322 Warburton Avenue, and the Former Glenwood Cleaners, located across the street to the north at 323 Warburton Avenue.

2.4 Topography

According to the United States Geological Survey (USGS), the topographic elevation ranges from approximately 50 feet above mean sea level (amsl) in the western portion of the Site to 80 feet amsl in the eastern portion of the Site. The Site slopes west towards the Hudson River.

2.5 Geology and Hydrogeology

2.5.1 Regional Geology/Hydrogeology

According to the NYSDOT Geotechnical Design Manual Chapter 3 NYS Geology, the region is located within the Manhattan Prong, a subdivision of the Hudson Highlands.

The geologic setting consists of intensely metamorphosed sediments. The rocks extend in parallel ridges; and folding has steeply upturned them so that differential erosion has developed the ridges. Resistant rocks of schist, gneiss and granodiorite form the ridges while less resistant marble is the valley maker. According to the USGS NYC Region Geologic Map, the area is underlain by Precambrian gneisses.

2.5.2 Site Geology/Hydrogeology

The Site's bedrock is mapped on the Geologic Map of New York as Precambrian-Middle Proterozoic-aged rocks consisting of Fordham gneiss, biotite, and granite. A review of the Surficial Geologic Map of New York (Lower Hudson Sheet, 1989) indicates that surficial soils in the area are mapped as till.

Based on a review of available information, including area topography, regional groundwater flow in the vicinity of the Subject Property is expected to be west towards the Hudson River. Municipal water supply is provided by the Water Bureau of Yonkers.

On-Site soil generally consists of fill material from surface to approximately 6 to 12 feet bgs. Fill material is underlain by dense to very dense brown coarse to fine Sand, with varying amounts of silt and gravel.

Based on measurements taken in December 2023 as part of the Remedial Investigation (RI), depth to groundwater at monitoring wells MW-1 through MW-4 was observed to be approximately 35.9 (MW-3) ft bgs to 64.8 (MW-2) ft bgs. Groundwater elevation at monitoring wells MW-1 through MW-4 was observed to be approximately 29.6 to 32.8 ft (assumed datum) at monitoring wells MW-1 through MW-4. Bedrock is assumed to be approximately 71 ft bgs in the vicinity of MW-1D and approximately 90 ft bgs in the vicinity of MW-5 and MW-6 based upon field observations.

Based on the RI, on-Site soil generally consists of historic fill material from surface to approximately 1 to 12 ft bgs, varying throughout the Site. The non-native contaminated historic fill material (CHFM) generally appears to consist of fine brown sand, asphalt, brick, wood, glass, ash, and other construction debris. The CHFM is underlain by light brown medium-fine sand, with varying amounts gravel.

3.0 REMEDIAL INVESTIGATION FINDINGS

The Remedial Investigation (RI) consisted of the collection of 185 soil samples from 23 borings, 4 groundwater monitoring wells, and a soil vapor intrusion investigation including 8 soil vapor points, 3 sub-slab samples, 9 off-site soil vapor points, and one indoor air sample. Pursuant to receipt of RI comments and subsequent discussions with NYSDEC, LaBella performed an additional investigation of the suspect fuel oil tank fill port and a soil vapor and groundwater data gap investigation as part of the first phase of a Pre-Design Investigation (PDI). The soil vapor and groundwater data gap investigation included the installation and sampling of two additional soil vapor sampling points (SV-19 and SV-20) in the vicinity of the additional monitoring well installed in Block 2116, Lot 22 (MW-5). MW-5 was installed downgradient of wells MW-1/1D to further evaluate the nature and extent of the groundwater contamination. A monitoring well (MW-6) was also installed adjacent to the sidewalk on Warburton Ave in Block 2116, Lot 28 to further evaluate the migration of contaminated groundwater from upgradient, off-site sources. The objective was to address the potential for migration of groundwater contamination onto the site and to evaluate the potential for off-site migration of groundwater and soil vapor. RI findings pertaining to Chlorinated Volatile Organic Compounds (CVOC) contamination are summarized in this section.

3.1 Potential Sources

Potential off-site sources of CVOC contamination include two former dry cleaners including 1) Glenwood Cleaners at 323 -325 Warburton Ave., directly north of the 321 Warburton Parcel (across Point Street) and 2) Rappaport Plaza Cleaners northeast of the 321 Warburton Parcel on the east side of Warburton Ave (322 Warburton Ave). Sanborn mapping indicates that the Rappaport Plaza Cleaners building (322 Warburton Ave) was demolished in 1978 and a new building was constructed sometime between 1978 and 1989.

LaBella was provided with maps from the City of Yonkers that identified a 20-inch vitrified clay sewer pipe that runs south along Warburton and pipe joints connecting at the intersection of Warburton Ave and Wicker Street, which is east of the Site and MW-6. Vitrified clay pipe has bell joints every 5 to 10 feet. There are likely several bell joints along Warburton Ave and at the intersection of Warburton Ave and Wicker Street, which is hydraulically upgradient of the Site. The sewer pipe and pipe joints represent a potential source of release of tetrachloroethylene (PCE) from the sewer and the subsurface, and ultimately groundwater. In addition, the maps do not show the presence of a sewer pipe along Point Street. Remediation of any off-site sources has not been performed to date.

3.2 Groundwater Results

The presence of PCE in groundwater at MW-2 and MW-6, which are located at the most upgradient portions of the Site, indicates that PCE is migrating onto the site from an off-site source. The aforementioned sewer pipe and pipe joints may represent a potential secondary off-site source of release of CVOCs to the subsurface, and ultimately groundwater. Although the concentration of PCE at MW-6 (720 µg/L) is slightly lower than at MW-4 (1500 µg/L), this may be attributable to variations in source strength, release duration and/or frequency, and/or other source term factors in connection with the release of PCE into a sanitary sewer and / or at the dry-cleaning facility itself. The presence of TCE at MW-4 is attributable to the degradation of PCE and does not reflect the presence of a source of TCE. In addition, the concentration of PCE in groundwater at MW-5 is only 1 µg/L which is below the Ambient Water Quality Standard of 5 µg/L. MW-5 is located at the western edge of the Site along Point Street, down gradient of both MW-1 (160 µg/L PCE) and MW-1D (1600 µg/L PCE).

This data indicates that the extent of off-site migration of CVOCs in groundwater is limited. Locations of the monitoring wells MW-5 and MW-6 and analytical results for all of the wells are included in **Figure 2.** Contours representing the total PCE and TCE concentrations detected in groundwater samples collected as part of the RI were created in Surfer 23.2.176 via the Kriging method. The contours are shown on **Figure 3A** and support the conclusion that PCE is migrating onto the site from an off-site source.

3.3 Soil Vapor Results

Soil vapor sampling results from the sidewalk adjacent to the Former Rappaport Plaza Cleaners to the east of the Site indicate the presence of PCE and TCE at highly elevated concentrations including PCE at a concentration of 530,000 µg/m^3 directly in front of the Former Rappaport Plaza Cleaners. Soil vapor sampling results from the sidewalk adjacent to the Former Glenwood Cleaners to the north of the Site also indicate the presence of PCE and TCE at highly elevated concentrations including PCE at a concentration of 200,000 µg/m^3 directly in front of the Former Glenwood Cleaners. Concentrations of PCE and TCE in soil vapor decrease significantly with distance from these suspected off-site sources.

Specifically, proceeding east from SV-15, located directly in front of the Former Rappaport Plaza Cleaners, which contained 530,000 µg/m^3 PCE, concentrations decrease to 59,000 µg/m^3 PCE at SV-13 µg/m^3 PCE, 3450 µg/m^3 PCE at SV-03, 52.7 µg/m^3 PCE at SV-02, and non-detect for PCE and TCE at SV-20, which is located adjacent to MW-1 and MW-1D and SV-19, which is located adjacent to MW-5, along the eastern property boundary near the corner of Woodworth Avenue and Point Street. On-site concentrations of PCE in soil vapor range were detected at a maximum concentration of 48.6 µg/m^3 at SV-10, with two non-detect samples (SV-19 and SV-20). TCE was not detected in any of the eight on-site soil vapor samples collected, compared to the TCE detections ranging from 27 µg/m^3 to 9,900 µg/m3 detected in soil vapor samples

taken from the sidewalks on the northeast of the site in front of the Former Rappaport Plaza Cleaners and the Former Glenwood Cleaners.

This data indicates that the extent of off-site migration of CVOCs is limited.

Contours representing the total PCE and TCE concentrations detected in RI soil vapor samples were created in Surfer 23.2.176 via the Kriging method. The contours indicate that the highest concentrations of PCE and TCE were detected directly in front of 322 Warburton Ave, which was the location of a former dry cleaner. The contours are included in **Figure 3B.** The results from the soil vapor investigation indicate that the extent of off-site migration of CVOCs in groundwater is limited and support the conclusion that there is no on-site source of PCE.

3.4 Soil Results

A total of 185 soil grab samples were analyzed for VOCs from 23 soil borings as part of the RI, 25 soil grab samples analyzed for VOCs from 40 soil borings as part of the waste characterization effort, and 24 soil grab samples collected from 18 soil borings (out of the 40 previously noted) as part of the sampling effort for approval of soil targeted for on-site re-use. LaBella also advanced 3 borings in the basement of the former building located at 321 Warburton Ave on March 29, 2024 to determine if there is a source under this building. The borings were advanced to a depth of 6 feet below the basement surface, which was approximately 9.5 ft bgs. Sample results from the borings did not contain VOCs in exceedance of Restricted Residential Soil Cleanup Objectives (RRSCOs).

VOCs were not detected in any of the 91 post-excavation confirmation samples analyzed to date.

4.0 CONCEPTUAL SITE MODEL

Pursuant to DER-10 Section 3.2.2, a conceptual site model (CSM) was developed as part of the 2024 Remedial Action Work Plan based on Remedial Investigation findings and previous investigations to produce a simplified framework for understanding the distribution of impacted materials, potential migration pathways, and potentially complete exposure pathways. The CSM considers Site history and context, including the factors that influence distribution, and fate and transport of remedy-relevant constituents, as well as potential receptors and pathways for exposure. These factors include potential sources and release mechanisms, the physical-chemical mechanisms that control constituent fate and transport, and the likely exposure pathways that govern the potential for adverse effects to human and ecological receptors.

The data indicate that there are multiple potential off-Site sources of CVOCs in the subsurface beneath the former Rappaport Plaza Cleaners located at 322 Warburton Avenue, the former Glenwood Cleaners located at 323 Warburton Avenue, and / or the sewer main located on Warburton Avenue. A summary of the CSM pertaining to CVOC contamination is included below.

4.1 Environmental Fate and Transport

Chemicals are transported or transformed in the environment through physical and kinetic processes. Physical processes including dissolution, vaporization, and adsorption result in the transfer of substances across media and phases. Kinetic processes, which include biotic and abiotic chemical transformations, decrease the concentration of a chemical by degrading it into other products. The current understanding of the fate and transport of Contaminants of Potential Concern (COPCs), specifically, chlorinated volatile organic compounds (CVOCs), is summarized below for each of the environmental media of interest at the Site.

<u>Soil</u>
There is no evidence of the presence of CVOCs in soil in connection with the former off-Site dry cleaning facilities.

Groundwater

Depth to groundwater varies from approximately 35 to 65 ft bgs subject to topographic variations across the Site. The fate and transport mechanisms that affect groundwater include advection, dispersion, dissolution, and natural degradation which may work to reduce the concentration of any dissolved-phase constituents. Groundwater flow direction is generally to the west.

Soil Vapor

There is the potential for contaminated groundwater to contribute to the presence of vapor-phase constituents to enter buildings through cracks and joints in foundation walls in the vicinity of former dry-cleaning facilities at which CVOC-related constituents have been released to the subsurface. There is no current evidence that a release of CVOC-related constituents has occurred at the Site. However, the sub-slab soil vapor and indoor air sampling indicate the presence of PCE in sub-slab and indoor air at concentrations that warrant additional action as per the NYSDOH Guidance document (2006, updated 2017 and 2024) at 321 Warburton Ave.

An SSDS will be installed as part of the construction of the foundation as a remedy to mitigate the potential for soil vapor intrusion resulting from migration of contaminated soil vapor onto the Site. The SSDS will be activated, or a soil vapor intrusion evaluation will be conducted to determine if there is a need for the SSDS to be activated.

4.2 Potential Exposure Pathways – On-Site

4.2.1 Current Conditions

The Site is currently under active construction. The Site remedy includes excavation to remove soil at concentrations that exceed restricted residential soil cleanup objectives. An SSDS will be installed to address potential exposure from contaminated groundwater and soil vapor. Groundwater is not expected to be used for any purposes in the foreseeable future. Soil vapor sampling results indicate that engineering controls may be necessary to address potential exposure to these media until such time that sources have been remediated.

During future subsurface investigations and remediation where human exposure to contaminated soil, groundwater and soil vapor is possible, the potential exposure pathways (dermal absorption, inhalation, and ingestion) will be controlled through implementation of a HASP or Construction Health and Safety Plan (CHASP).

In the absence of engineering and institutional controls, potential exposure pathways exist for dermal absorption, ingestion, and/or inhalation during construction/remediation. Construction and remedial activities include demolition, excavation and off-Site disposal of impacted soil, potential localized dewatering of contaminated groundwater and construction of foundation components. These exposure pathways will be controlled through the implementation of a CHASP, CAMP, and use of vapor and dust suppression techniques.

4.3 Potential Exposure Pathways – Off-Site

The potential for off-Site soil vapor intrusion may warrant evaluation at the apartment buildings at 256 - 258 Woodworth Ave to the extent access is permitted.

The potential off-Site migration of Site contaminants in soil is not expected to result in a complete exposure pathway for current, construction and remediation, or future conditions for the following reasons:

- The Site is located in an urban area with continuous and relatively impervious surface covering (i.e. building foundations and concrete and asphalt paving),
- During Site redevelopment and remediation, the following protective measures will be implemented:

- Air monitoring will be conducted for particulates (i.e., dust) and VOCs during all intrusive activities as part of a CAMP. Dust and/or vapor suppression techniques will be employed to limit potential for off-Site migration of soil and vapors.
- Vehicle tires and undercarriages will be washed as necessary prior to leaving the Site to prevent tracking material off-Site.

4.4 Evaluation of Human Health Exposure

Based upon the CSM and the review of environmental data, complete on-Site and off-Site exposure pathways do not appear to be present under current conditions. During construction and remediation there is a risk of exposure to humans from Site contaminants via exposure to soil. The HASP will mitigate this risk.

Complete exposure pathways have the following five elements: 1) a contaminant source; 2) a contaminant release and transport mechanism; 3) a point of exposure; 4) a route of exposure; and 5) a receptor population. A discussion of the five elements comprising a complete pathway as they pertain to the Site is provided below.

Contaminant release and transport mechanisms include contaminated soil transported as dust, contaminated groundwater flow and volatilization of contaminants from the soil and groundwater matrices to the soil vapor phase, and transport of existing soil vapor contaminants. Under current Site conditions, the likelihood of exposure to humans is limited, as the Site is vacant, mostly covered by impervious surfaces, and potable water is obtained from an off-Site source. Subsurface investigations were conducted in accordance with a HASP to minimize exposure risk.

4.4.1 Construction/Remediation Activities

During development and remediation, points of exposure include disturbed and exposed soil during excavation, dust and organic vapors generated during excavation, and contaminated groundwater that may be encountered during excavation and/or localized dewatering operations. Potential routes of exposure include ingestion and dermal absorption of contaminated soil. The receptor population includes construction and remediation workers and, to a lesser extent, the public adjacent to the Site.

The potential for completed exposure pathways is present since all five elements exist; however, the risk will be minimized by the implementation of appropriate health and safety measures during construction and remediation, such as monitoring the air for organic vapors and dust, using vapor and dust suppression measures, cleaning truck undercarriages prior to exiting the Site to prevent off-Site soil tracking, maintaining site security, and wearing the appropriate personal protective equipment (PPE).

In accordance with a Remedial Action Work Plan (RAWP), which will include a CHASP, a Soil/Materials Management Plan (SMMP), and a CAMP, measures such as conducting an air monitoring program, donning PPE, covering soil stockpiles, altering work sequencing, maintaining a secure construction entrance, proper housekeeping, and applying vapor and dust suppression measures to prevent off-Site migration of contaminants during construction will be implemented. Such measures will prevent completion of these potential exposure pathways.

4.4.2 Human Health Exposure Assessment Conclusions

Human exposure to Site contaminants is limited under current conditions on the Site. The primary exposure pathways are for dermal contact, ingestion, and inhalation of soil, soil vapor, or groundwater by Site investigation workers. The exposure risks can be avoided or minimized by following the appropriate health and safety and vapor and dust suppression measures outlined in the site-specific HASP during investigation activities.

The COPCs detected at the Site have the potential to have adverse effects on human health and may be absorbed after ingestion, inhalation, or dermal exposure. Acute exposure symptoms may include headache,

dizziness, unconsciousness, abdominal pain, nausea, diarrhea, and skin and eye irritation among other effects. Chronic exposure may cause harm to the central nervous system, liver, kidneys, and dermatitis among other effects. Many of the compounds are known or probable human carcinogens.

In the absence of institutional and engineering controls, there is potential for exposure during construction and remediation activities. The primary exposure pathways are:

- Dermal contact, ingestion and inhalation of contaminated soil, groundwater, or soil vapor by construction workers.
- Dermal contact, ingestion and inhalation of soil (dust) and inhalation of soil vapor by the community in the vicinity of the Site.

These exposure risks can be avoided or minimized by performing community air monitoring and by following the appropriate health and safety, vapor and dust suppression and Site security measures outlined in a site-specific CHASP.

The existence of a complete exposure pathway for Site contaminants to human receptors during proposed future conditions is unlikely, as contaminated soil will be excavated and transported to an off-Site disposal facility and any residual soil that remains will be below a cover system. The potable use of groundwater is prohibited and an SSDS will mitigate the potential for soil vapor intrusion from off-Site sources of SVOCs.

It is possible that a complete exposure pathway exists for the migration of Site contaminants to off-Site human receptors for current, construction phase, or future conditions. Monitoring and control measures will be used during investigation and construction to prevent community exposure to contaminated dust and vapors.

5.0 PRE-DESIGN INVESTIGATION – GROUNDWATER TREATMENT DESIGN

As part of the design process for the PRB, a pre-design investigation was conducted pursuant to the NYSDEC-approved work plan dated August 6, 2024. Specifically, the investigation included hydraulic conductivity testing and passive diffusion bag sampling.

5.1 Hydraulic Conductivity Testing

LaBella conducted slug testing to assess the hydraulic conductivity of the aquifer in the treatment zone and the groundwater velocity such that residence time (contact time) between the contaminated groundwater and the PRB could be assessed. Slug tests were performed on June 20th through 24th on three (3) monitoring wells (MW-2, MW-4 and MW-6) that are closest in proximity to the planned PRB. Due to suspect results for MW-6, an additional slug testing event was conducted on July 30th to re-test MW-6 and perform tests on wells MW-1, MW-1D and MW-5 to obtain additional data and utilize averages across the site. The slug testing was consistent with the USEPA Standard Operating Procedures: Slug Tests dated April 29, 2020, included as an attachment to the PDI Work Plan.

The methods for conducting the slug tests were as follows:

- Initially, the static water level was measured/recorded prior to initiating the test.
- A pressure transducer was placed into the wells listed above, one well at a time, to record water level measurements over time.
- A PVC slug of known volume was dropped into the well to quickly displace a volume of water.
- Pressure transducer measurements were collected throughout; however, periodic manual static water level meter readings were also collected.
- Subsequent to allowing water levels to return to pre-test levels, the slug was rapidly removed to conduct a 'slug out' (i.e., negative displacement) test.
- The above procedures were repeated for each well to assess repeatability of the test/results.

- The above testing results were utilized to calculate hydraulic conductivity for each well tested using the Hvorslev Method and this information was utilized along with groundwater gradients to develop a groundwater velocity across the Site/PRB area.

In addition to the above testing that was included in the Pre-Design Investigation Work Plan, wells MW-1D, MW-5 and MW-6 also were tested by utilizing a slug of potable water. Specifically, the following water slugs were utilized:

Well	5-Gallon	10-Gallon
MW-1D	1 test	--
MW-5	2 tests	--
MW-6	2 tests	1 test

The slug testing results were assessed utilizing AQTESOLVE version 4.5.002 to graph and interpret the results and obtain a range of hydraulic conductivities for each well. Specifically, AQTESOLVE was utilized to estimate hydraulic conductivities; however, a visual assessment of the conductivity graphs was also conducted to estimate the conductivities. A table summarizing the results of the slug testing is included in **Appendix A**. In addition, the AQTESOLVE results are also presented in **Appendix A**. As shown conductivities ranged from 1.12 x 10^{-2} cm/sec to 6.29 x 10^{-4} cm/sec

The estimated hydraulic conductivities for each well were utilized to assess groundwater velocity across the Site. This was determined by utilizing the groundwater contours developed from static water levels collected on December 19, 2023 and obtaining a hydraulic gradient for the site. The hydraulic gradient was developed by averaging gradients from 2 well pairs. This resulted in a range of groundwater flow velocities between 0.18 to 0.46 ft/day. The groundwater velocities are summarized in **Appendix B.**

5.2 Groundwater Sampling

Passive Diffusion Bag (PDB) sampling was conducted to assess the vertical profile of contamination and evaluate any significant variations in PCE concentration with depth to determine if placement of additional PRB treatment chemical is warranted in different vertical zones. The sampling also included the collection of geochemical parameters in order to evaluate existing conditions (e.g., anaerobic vs. aerobic, reductive state, etc.) with respect to the potential for Monitored Natural Attenuation (MNA).

Passive Diffusion Bag Sampling

PDBs were deployed in three (3) wells (MW-2, MW-4, and MW-6) that are closest in proximity to the planned PRB. The PDBs were deployed at the following depths in each well (i.e. at the top, middle, and bottom of the water column). Prior to deployment the depths were confirmed based on the depth-to-water measurements at the time the PDB was deployed.

Monitoring Well	Well Screen Depth (FT BGS)	Depth of PDB (FT BGS – Center of PDB)
MW-2	56 - 76	60
		66
		73.5
MW-4	56 - 76	59
		66.5
		73.5
MW-6	56 - 76	65
		70
		73.5

The PDBs were deployed on May 21st (MW-2 & MW-4) and May 28th (MW-6) and sampled on June 11th. The PDBs are left in the well for a minimum of 2 weeks for the PDB to equilibrate with the water in the well and allow for diffusion of contaminants into the PDB such that a sample representative of the groundwater column/depth is obtained. The PDBs were deployed and sampled in accordance with the EON Standard Operating Procedure for Groundwater Sampling Using Passive Diffusion Samplers which was included as an attachment with the PDI Work Plan. The groundwater removed from each well was sampled for Volatile Organic Compounds (VOCs) via EPA Method 8260.

The results of the PDB sampling are provided on **Table 1** which is included in **Appendix C**. As indicated in Table 1, a majority of the VOCs were below the laboratory method detection limit. The data is further summarized below to indicate only significant detections. All other VOCs were either non-detect or estimated concentrations and below the NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 groundwater standards and/or guidance values.

Well	Sample Depth (ft. bgs)	VOCs (ppb) PCE	TCE	Acetone
MW-2	60	**6,000**	< 25	< 250
	66	**7,800**	< 25	**82 J**
	73.5	**8,400**	< 50	< 500
MW-4	59	**79**	2.3	**80**
	66.5	**38**	0.94	**99**
	73.5	**170**	3.6	**110**
MW-6	56	**160**	0.45 J	9.4
	65	**2,200**	< 10	<100
	73.5	**2,400**	< 12	< 120

Notes:

- < denotes contaminant not detected above detection limit shown.
- J denotes estimated concentration.
- Bold denotes concentration exceeds NYSDEC TOGS 1.1.1 Groundwater Standard.

As shown in the above table, perchloroethylene (PCE) was the most significant constituent detected which is consistent with prior groundwater testing data. Acetone was also detected in each well at varying concentrations. PCE concentrations generally increased with depth; however, the concentrations for each bottom sample were similar to concentrations in the middle samples (i.e., did not increase by orders of magnitude). The bottom sample concentrations for each well are not representative of free product/dense non-aqueous phase liquid.

Degradation products of PCE (e.g., trichloroethylene (TCE), cis/trans 1,2-dichloroethylene (1,2-DCE) and vinyl chloride (VC)) were limited to some low-level detections of TCE. Based on the VOC sampling data there does not appear to be any significant degradation/natural attenuation of PCE occurring (further discussed in the MNA parameter assessment below).

MNA Parameters Assessment

All of the monitoring wells on-site (MW-1, MW-1D, MW-2, MW-3, MW-4, MW-5, and MW-6) were sampled for baseline conditions prior to the installation of the PRB. The wells were sampled via low-flow sampling techniques consistent with the procedures utilized during the Remedial Investigation. Purge water was containerized and run through a carbon filter and discharged to the ground surface. During sampling, the following parameters were measured and recorded at three (3) to five (5) minute intervals:

- Water level drawdown (<0.3')
- Temperature (+/- 3%)
- pH (+/- 0.1 unit)
- Dissolved oxygen (+/- 10%)

- Specific conductance (+/- 3%)
- Oxidation reduction potential (+/- 10 millivolts)
- Turbidity (+/- 10%, <50 NTU for metals)

Samples were also collected when the parameters were stabilized within the specified range for three (3) consecutive intervals. The following samples were also collected and transported to an ELAP-certified laboratory under standard chain of custody procedures for analysis of:

- Alkalinity, EPA Method 031.2
- Chloride, EPA Method 0300
- Hardness, EPA Method 130.1
- nitrate/nitrite, EPA Method 353.2
- sulfate/sulfide, EPA Method 300/376.1
- Ferrous iron, EPA Method 3010
- Total Organic Carbon (TOC), EPA Method 9060

Additionally, samples were also collected from the wells without PDBs deployed (MW-1, MW-1D, MW-3, and MW-5) for TCL VOCs by USEPA Method 8260. This sampling was completed to confirm prior results have not significantly changed.

5.3 Pre-Design Investigation Results

The results of this sampling are summarized in **Table 2** included in **Attachment C**. This sampling was not conducted to evaluate a full site wide MNA approach but rather to assess existing conditions and if natural attenuation could be expected to contribute to degradation based on groundwater conditions. To assess this, the United States Environmental Protection Agency (USEPA) Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water, September 1998 was utilized to compare the values with MNA scoring parameters. It should be noted that a full MNA assessment/scoring was not completed, rather the values listed were utilized for comparison purposes only as part of a general assessment. Specifically, Table 2.3 (Analytical Parameters and Weighting for Preliminary Screening for Anaerobic Biodegradation Processes) was utilized to assess the indicator parameters. A background sample was not collected. The results of the comparisons are summarized below:

- Alkalinity – an alkalinity range typical for favorable MNA conditions is 2 times background. Although a background sample was not collected, alkalinity in 'clean' wells (MW-3 and MW-5) was in the same range as impacted wells thus indicating alkalinity conditions may not be favorable for MNA.
- Nitrate – Nitrate concentrations of less than 1 mg/L indicate favorable MNA conditions. Nitrate concentrations at the Site ranged between 2.6 and 6.5 mg/L except for MW-1 (0.151 mg/L). Based on this data, nitrate conditions may not be favorable for MNA.
- Total Organic Carbon (TOC) – TOC concentrations above 20 mg/L indicate favorable MNA conditions. TOC concentrations ranged between 0.33 and 2.1 mg/L thus indicating TOC conditions may not be favorable for MNA.
- Ferrous Iron (Iron II)– Iron II concentrations above 1 mg/L indicate favorable MNA conditions. Iron II concentrations ranged between 0.08 and 0.16 mg/L thus indicating Iron II conditions may not be favorable for MNA.
- Sulfate – Sulfate concentrations below 20 mg/L indicate favorable MNA conditions. Sulfate concentrations ranged between 26.8 and 55.7 mg/L, except for MW-1 (7.44 mg/L) thus indicating Sulfate conditions may not be favorable for MNA.
- Chloride – a chloride range typical for favorable MNA conditions is 2 times background. Although a background sample was not collected, chloride in 'clean' wells (MW-3 (4.06 mg/L) and MW-5 (347

mg/L)) was in the same range as impacted wells thus indicating alkalinity conditions may not be favorable for MNA.

- Dissolved Oxygen (DO) – DO concentrations less than 0.5 mg/L indicate favorable conditions for MNA. DO was measured in the field and concentrations at the Site ranged from 0.6 to 5.3 mg/L thus indicating that conditions are not anaerobic.
- Oxidation Reduction Potential (ORP) – ORP readings less than 50 mV indicate the reductive dichlorination pathway is possible and less than -100 mV indicates reductive dichlorination pathway is likely. ORP readings were measured in the field and ranged from -104 mV (MW-3) to +120 mV (MW-2). The ORP readings generally indicated that reducing conditions were only present in some locations.

Based on the above, MNA via anaerobic reductive dichlorination does not appear to be contributing to any significant degradation of PCE in groundwater at the Site, which is consistent with a lack of degradation products as indicated by the VOC testing data.

The findings from the Remedial Investigation (Section 3.0) and PDI (Section 5.0) were the basis of the PRB design to achieve Remedial Action Objectives. Per the July 23, 2024 NYSDEC Decision Document, the selected remedy for groundwater includes in-situ chemical reduction (ISCR) to treat PCE, TCE, and other PCE breakdown compounds in groundwater as it passes through the PRB. The PRB will be installed perpendicular to groundwater flow in the approximate location shown in **Figure 4**. The general groundwater flow direction is toward the west, towards the Hudson River.

6.0 MONITORING WELL INSTALLATION AND SAMPLING

6.1 Monitoring Well Network

A total of four new monitoring wells will be installed at the Site to monitor the performance of the PRB. These wells will replace the monitoring well network that has been decommissioned due to site redevelopment. The new well network will consist of one upgradient well couple installed on the northeast portion of the Site, including one shallow overburden well and one deep well extending to the top of bedrock. In addition, two monitoring wells will be installed downgradient of the PRB, directly west of the future building. The construction of these wells will depend on the results of the sampling of the upgradient well. The proposed well locations are indicated on **Figure 4**.

6.2 Monitoring Well Construction

The monitoring well installation will be conducted in accordance with NYSDEC DER-10. The following sections detail the well construction methodology for the upgradient and downgradient wells. The objective is to confirm baseline upgradient groundwater conditions above bedrock at depths similar to those which were sampled as part of the PDI while also collecting deeper baseline samples to confirm the vertical extent of contamination. The two upgradient well screens will have at least a 5-foot interval between well screen depths, with the objective of obtaining data from the two sampling intervals that are not biased or impacted from a zone known to be impacted. Downgradient monitoring well construction (i.e., screened interval) would be determined based upon an evaluation of these results.

6.2.1 Upgradient Well Construction

One upgradient well couple will be installed on the northeast portion of the Site, including one well (MW-2S) extending to 76 ft bgs and one well (MW-2D) extending to the top of bedrock (assumed to be approximately 90 ft bgs). MW-2D will be installed first, with the objective of determining bedrock depth. Based upon bedrock depth, the MW-2S well screen interval may be modified accordingly. The proposed well screen depths are included on **Figure 5**.

The upgradient deep well (MW-2D) will be advanced with a Sonic rig to the top of bedrock (assumed to be approximately 90 ft bgs) with a minimum 6-inch diameter borehole and continuous soil sampling from the ground surface to the top of bedrock. The upgradient deep well will be constructed of Schedule 40- 2-inch diameter PVC with 5 feet of 10-slot well screen (85 to 90 ft bgs). A sand filter pack will be installed around the annulus from the bottom of the borehole to 2-feet above the well screen, and 1 foot of choke sand will be installed above the sand pack, then cement-bentonite grout, finished with a J-Plug cap and flush-mount cover set in concrete.

The upgradient shallow well (MW-2S) will be advanced with a Sonic rig to a depth of 76 ft bgs, with a minimum 6-inch diameter borehole. The upgradient shallow well will be constructed of Schedule 40 2-inch diameter PVC with 20 feet of 10-slot well screen (56 to 76 ft bgs). A sand filter pack will be installed around the annulus from the bottom of the borehole to 2-feet above the well screen, and 1 foot of choke sand will be installed above the sand pack, then cement-bentonite grout, finished with a J-Plug cap and flush-mount cover set in concrete.

The wells will be developed immediately after construction with a downhole submersible pump. Water quality parameters including temperature, pH, conductivity, oxidation-reduction potential (ORP), dissolved oxygen, and turbidity, will be collected and recorded at a frequency of not less than once per well volume removed. Ten well volumes will be removed, at a minimum.

The upgradient wells will be sampled for VOCs. The initial sampling will be completed via Passive Diffusion Bags (PDBs). Three PDBs will be placed in MW-2S at the same depths previously sampled in **Section 5.2** and one PDB will be placed in MW-2D at the center of the 5-foot screen. Subsequent (post PRB installation) sampling is summarized in **Section 6.3.** Following receipt of the sample analytical data, downgradient wells will be installed at locations directly west of the future building, pursuant to discussions with NYSDEC, as indicated on **Figure 4B**. Sampling methodology is further detailed in **Section 6.3**.

6.2.2 Downgradient Well Construction

Following receipt of sample analytical data from the upgradient wells, the downgradient wells will be installed. Final well details are subject to change based upon results from the upgradient wells. The downgradient well screens will be installed at the depth elevations as the upgradient well screens, assuming a flat bedrock layer.

Two downgradient wells will be installed downgradient of the PRB, directly west of the future building. The downgradient wells will be advanced with a Sonic rig to a depth of 71 ft bgs, with a minimum 6-inch diameter borehole and continuous soil sampling from the ground surface to 71 ft in depth. The downgradient wells will be constructed of Schedule 40 2-inch diameter PVC with 20 feet of 10-slot well screen (51 to 71 ft bgs). A sand filter pack will be installed around the annulus from the bottom of the borehole to 2-feet above the well screen, and 1 foot of choke sand will be installed above the sand pack, then cement-bentonite grout, finished with a J-Plug cap and flush-mount cover set in concrete.

The wells will be developed immediately after construction with a downhole submersible pump. Water quality parameters including temperature, pH, conductivity, and turbidity, will be collected and recorded at a frequency of not less than once per well volume removed. Three well volumes will be removed, at a minimum.

The downgradient wells will be sampled, prior to installing the PRB, via low-flow groundwater sampling methodologies, refer to **Section 6.3**.

After completion of the well installations, all the monitoring well locations will be surveyed by a licensed surveyor.

6.3 Groundwater Sampling Methodology

The monitoring well installation and groundwater sampling procedures will be conducted in accordance with NYSDEC DER-10. Groundwater samples will be analyzed for VOCs via EPA Method 8260 and samples will be transferred to laboratory supplied glassware and packed in a cooler with ice and shipped under proper chain-of-custody procedures to a NYSDOH ELAP certified laboratory for analysis individually following NYSDEC ASP - Category B Deliverables. QA/QC samples such as trip blanks, duplicate samples, matrix spike/matrix spike duplicate samples (MS/MSDS), and field blanks will be collected.

Each groundwater monitoring event is anticipated to consist of the following:

- Prior to sampling, LaBella field staff will collect headspace readings and static water level measurements from each well. Headspace readings will be collected by measuring VOC concentrations with a photo ionization detector (PID) immediately after removing the cap from each well. The PID will be capable of measuring VOCs in the parts per billion (PPB) range and utilize an 11.7 eV lamp. Static water level readings will be collected using an oil-water interface probe. The probe will also be extended to the bottom of each well to gauge for non-aqueous phase liquid (NAPL).
- A submersible pump will be utilized for low flow sampling. During sampling, the pump intake will be set in the zone of highest contamination based on the vertical profiling via PDB sampling.
- Pumping rates will be used to ensure water level stabilization in accordance with EPA low-flow procedures. Water quality parameters including turbidity, pH, temperature, specific conductivity, dissolved oxygen, oxidation reduction potential, and depth to water will be recorded at 5-minute intervals. If 5-minute intervals are not sufficient to ensure one flow-through cell volume is "turned over" between measurements based on the flow rate required to achieve water level stabilization, the measurement interval will be extended appropriately. Samples will be collected when the parameters have stabilized for three (3) consecutive monitoring intervals to within the specified ranges below:
    - Turbidity (+/- 10%, <50 NTU for metals)
    - pH (+/-0.1)
    - Temperature (+/- 3%)
    - Specific conductivity (+/- 3%)
    - Dissolved Oxygen (+/- 10%)
    - Oxidation reduction potential (+/- 10 millivolts)

Flow rates used to achieve water level stabilization will remain constant throughout purging, indicator parameter monitoring and during sample collection.

6.4 Post-PRB Installation Monitoring

Groundwater Monitoring

To assess the efficacy of the treatment chemical and the installation of the PRB, groundwater monitoring shall occur according to the following schedule:

- Initial effectiveness / performance monitoring event (approximately three months after injection work is completed)
- Continuing effectiveness / performance monitoring event (approximately six months after injection work is completed)

The 3- and 6-month monitoring events shall utilize low-flow sampling methodology and include an analysis of standard groundwater quality parameters (DO, ORP, pH, specific conductance, turbidity, and temperature). Groundwater samples will be collected and analyzed for the following:

- USEPA TCL and NYSDEC CP-51-list VOCs using USEPA Method 8260;

In addition to the VOC testing, the initial two (2) rounds only will include:

- Dissolved gases (methane, ethane, and ethene) using USEPA approved method (see also *Technical Guidance for the Natural Attenuation Indicators: Methane, Ethane, and Ethene*, Revised February 21, 2002 - https://clu-in.org/download/contaminantfocus/dnapl/Treatment_Technologies/Ethene-ethane-methane-analysis.pdf)
- Cations manganese and iron using USEPA Method 6020; and,
- Inorganic anions chloride and sulfate using USEPA Method 300.0.

Each monitoring event shall include sampling of the same wells sampled during the baseline sampling event. QA/QC samples will be collected during each sampling event, including:

- One (1) Blind Field Duplicate;
- One (1) Matrix Spike / Matrix Spike Duplicate; and,
- One (1) Trip Blank.

QA/QC samples will be collected for analysis of target contaminants of concern only (i.e., VOCs). QA/QC samples will not be collected for dissolved gases.

The samples will be analyzed by an Environmental Laboratory Accreditation Program (ELAP) certified laboratory and an ASP Category B Deliverable will be provided. In addition, electronic data deliverables will be submitted to the NYSDEC. Data Usability Summary Reports (DUSRs) will be prepared by a third-party data validator.

Subsequent future sampling will be defined in the future Site Management Plan. However, it is anticipated that the long-term groundwater monitoring will be limited to VOCs only and will be collected via PDBs.

7.0 IN-SITU CHEMICAL TREATMENT / PERMEABLE REACTIVE BARRIER INSTALLATION

The findings from the Remedial Investigation and PDI were the basis of the PRB design to achieve Remedial Action Objectives. Per the July 23, 2024 NYSDEC Decision Document, the selected remedy for groundwater includes in-situ chemical reduction (ISCR) to treat PCE, TCE, and other PCE breakdown compounds in groundwater as it passes through the PRB. The PRB will be installed perpendicular to groundwater flow in the approximate location shown in **Figures 4**. The general groundwater flow direction is to the west, towards the Hudson River.

Zero valent iron, a chemical reducing agent, or similar approved compound from the list in Section 5.1.2, will be injected into the subsurface to reduce the contaminant concentrations in an approximately 3,400 square foot area. The final product and volume will depend on final PRB details; however, the lateral extent of the PRB will extend approximately 170 feet in length by 20 feet in width and located in the upper eastern portion of the site where PCE, TCE, and other PCE breakdown compounds were elevated in groundwater. Based on the groundwater velocity range of up to 0.46 ft/day, a 20-ft. wide PRB will allow for a minimum of 43 days or residence time for groundwater passing through the PRB.

The northern end of the proposed PRB will initiate at the northern site boundary adjacent to Point Street. The PRB will extend to the south and terminate approximately 36 ft south of MW-6. Vertically, the PRB will extend from approximately 55 to 76 ft bgs. The western end of the PRB will consist of approximately four points parallel to Point Street. The vertical extent of the PRB will be confirmed following installation and sampling of the upgradient monitoring wells. Each individual injection point will have an approximate 10' lateral radius of influence.

The PRB location has been determined by the following:

- The PRB is most effective when installed perpendicular to groundwater flow;
- Plume mapping generated during the RI further confirms groundwater flow direction and logical placement of the barrier;

- The barrier spans the apparent width and depth of the plume (limiting the possibility that contaminants circumvent the barrier);
- The terminal depth of the barrier is at the depth where equipment refusal was encountered during investigation drilling activities;
- The location is on-Site,
- The location is fully accessible.

Figure 4 illustrates the lateral extent of the PRB, including estimated injection point locations and area of direct influence (i.e., injection points are shown as circles having 10' radius). **Figure 6** includes a cross section of the subsurface soil profile and illustrates the vertical extent of the PRB.

Vertical injection points will be utilized to deliver the injection chemical to the subsurface. An estimated fourteen (14) injection points will be advanced across the length of the PRB (unless an additional row is deemed warranted based on residence time).

The number and spacing of injection points and quantity and concentration of material were calculated to provide adequate area of influence / coverage to the entire footprint of the PRB. The PRB injection methodology is detailed in **the following sections.**

7.1 Injection Point Installation

Injection points will be advanced using a Sonic drill rig (or equivalent). Prior to initiating drilling activities, the drive rods and associated equipment, will be steam cleaned or washed with an Alconox© and water solution. This cleaning procedure will occur between each location. Injection points will be advanced with 2-inch (or larger) inside diameter (ID) cores through overburden soils.

All cuttings will be placed on poly and covered with poly sheeting for subsequent characterization and management. Liquids from drilling operations will be containerized (e.g., 20,000 gallon frac tank) for subsequent characterization and management.

7.1.1 Direct Injection Methodology

Approximately 50,000 lbs of ISCR (final quantity to be determined after deep well sampling) will be mixed and placed into 14 injection points. Material will be injected in 2-ft. intervals vertically from the bottom of each location. Based on an estimated 50,000 total lbs., the injections are targeted to provide 119 lbs/ft. for each injection location which we anticipate will achieve a radius of influence (ROI) of 10 ft at each injection point. It should be noted that the injection points nearest the upgradient/deep wells will be off-set from the other PRB injection points in order to minimize the potential for short-circuiting/daylighting via these wells. These will either be installed vertically or potentially via angle drilling.

If the initial injection zone appears to provide inadequate coverage or due to issues with selected injection points, additional injection points will be placed west of the injection locations on **Figure 4** to ensure adequate PRB distribution and coverage.

7.1.2 Injection Materials

An ISCR material will be utilized. The final product selection will be based on the final PRB limits and contaminant concentrations. However, the ISCR materials listed below are capable of producing anaerobic reductive dichlorination and one of these is anticipated for use:

- Zero-Valent Iron (ZVI)
- ZVI with an emulsified oil

- EHC®: by Evonik
- ERD, EZVI, Provect-IR
- S-Micro ZVI

The selected product will be provided to NYSDEC for approval prior to use.

7.2 Injection Wells

If issues with direct injection arise (such as daylighting), the use of injection wells may become necessary.

Each injection well will be constructed with 4-inch diameter casing with 30-ft. of 4-inch diameter 20-slot screen (set between 50-80 ft. bgs). Sand pack will extend from 2-ft. below screen to 2-ft. above screen and with appropriate sand pack compatible with 20-slot screen. A 2-foot minimum bentonite seal will be installed to above the sand and grouted to surface. The wells will be completed with flush mount well covers. The top of the wells will be installed with cam-lock fitting, threaded pipe or other for connection of injection equipment.

Packers may also be used to seal off the casing, thereby directing the slurry horizontally into the formation and preventing the injected material from coming back up the casing. Packering of the injection wells would occur at 2-ft intervals to create definite intervals for injection.

The NYSDEC shall be notified prior to the use of injection wells. Injections into existing monitoring wells will not occur.

7.3 Injection Oversight / Monitoring

At each injection point, LaBella will monitor and record injection pressure and approximate flow rate of each injection (elapsed time divided by injection volume). Each injection point will include an injection log that includes the mass and volume of material injected at each interval.

During injection activities, LaBella will monitor the surrounding area for evidence of daylighting a minimum of three times per day. If daylighting is observed, response actions will include:

- Pausing injection activities;
- Taking steps to stop the material from free-flowing (i.e., spill containment materials will be on-site and readily available next to the injection area);
- Recovering and appropriately containerizing the material to the maximum extent feasible using spill containment materials (i.e. pads, booms, berms, etc.), buckets, drum vacuums, etc.;
- Considering the use of injection wells;
- Sealing completed injection points with grout; and,
- Reassessing the injection plan (i.e. reducing the quantity of material to be injected at each location/depth, adding/removing/relocating injection points, etc.).

The NYSDEC will be contacted for approval prior to making any significant changes to the injection plan (i.e., adding, removing, or relocating injection points).

7.3.1 Daily Reporting

Daily reports will be submitted to the NYSDEC per the NYSDEC-approved RAWP.

7.3.2 Community Air Monitoring Program

The Community Air Monitoring Plan (CAMP) will be implemented and executed in accordance with 29 Code of Federal Regulations (CFR) 1910.120(h) and the NYSDOH Generic CAMP. Upwind and downwind CAMP will be conducted during all ground intrusive activities. The Site-Specific CAMP dated July 2024 will be adhered to for all PRB work.

7.4 Permitting

Prior to any injection activities occurring, an Underground Injection Control Program permit from the USEPA shall be obtained. The permit shall be shared with the NYSDEC and kept on-site during injection activities. The permit will also be included as an attachment in the Final Engineering Report.

7.5 Soil Staging Methods

Soil excavated during remedial work is anticipated to be directly loaded to the degree practicable; however, some temporary stockpiles may be required to facilitate disposal. Hay bales will be used as needed near discharge points.

Stockpiles will be kept covered at all times with appropriately anchored tarps. Stockpiles will be routinely inspected and damaged tarp covers will be promptly replaced.

In order to prevent cross-contamination of non-hazardous and hazardous soil during soil staging activities, different colored tarps will be used to differentiate the non-hazardous from the hazardous soil (e.g., clear tarp for non-hazardous soil versus black tarp for hazardous soil).

Stockpiles will be inspected at a minimum once each week and after every storm event. Results of inspections will be provided to the NYSDEC in the Daily Summary Reports.

7.6 Decontamination

Dedicated machinery (including excavation equipment, soil loading equipment, and other equipment that would contact soils) will be utilized in the hazardous and non-hazardous areas, to the degree practicable. Therefore, it is anticipated that decontamination of equipment between hazardous and non-hazardous areas will not be necessary routinely, but will be completed any time equipment moves between hazardous and non-hazardous areas.

Equipment will be decontaminated by removing all soils from excavator tracks and buckets via shovels and brooms and the soil will be disposed of with the appropriate material (i.e., soil removed from equipment that handled hazardous waste will be disposed of as hazardous waste). In the event that material can be removed and the equipment can be visually deemed clean (i.e., only de minimis amounts of soil remain) then the equipment can be removed from the excavation area for use in other areas and/or demobilized from the Site. However, in the event that the equipment is muddy or can't be thoroughly decontaminated via dry methods, additional decontamination will be completed via power washing or other methods to remove soils until only de minimis amounts remain. Any wash waters will be containerized and properly disposed off-Site.

8.0 SCHEDULE

The proposed schedule for the work outlined in this PRB Work Plan is noted below.

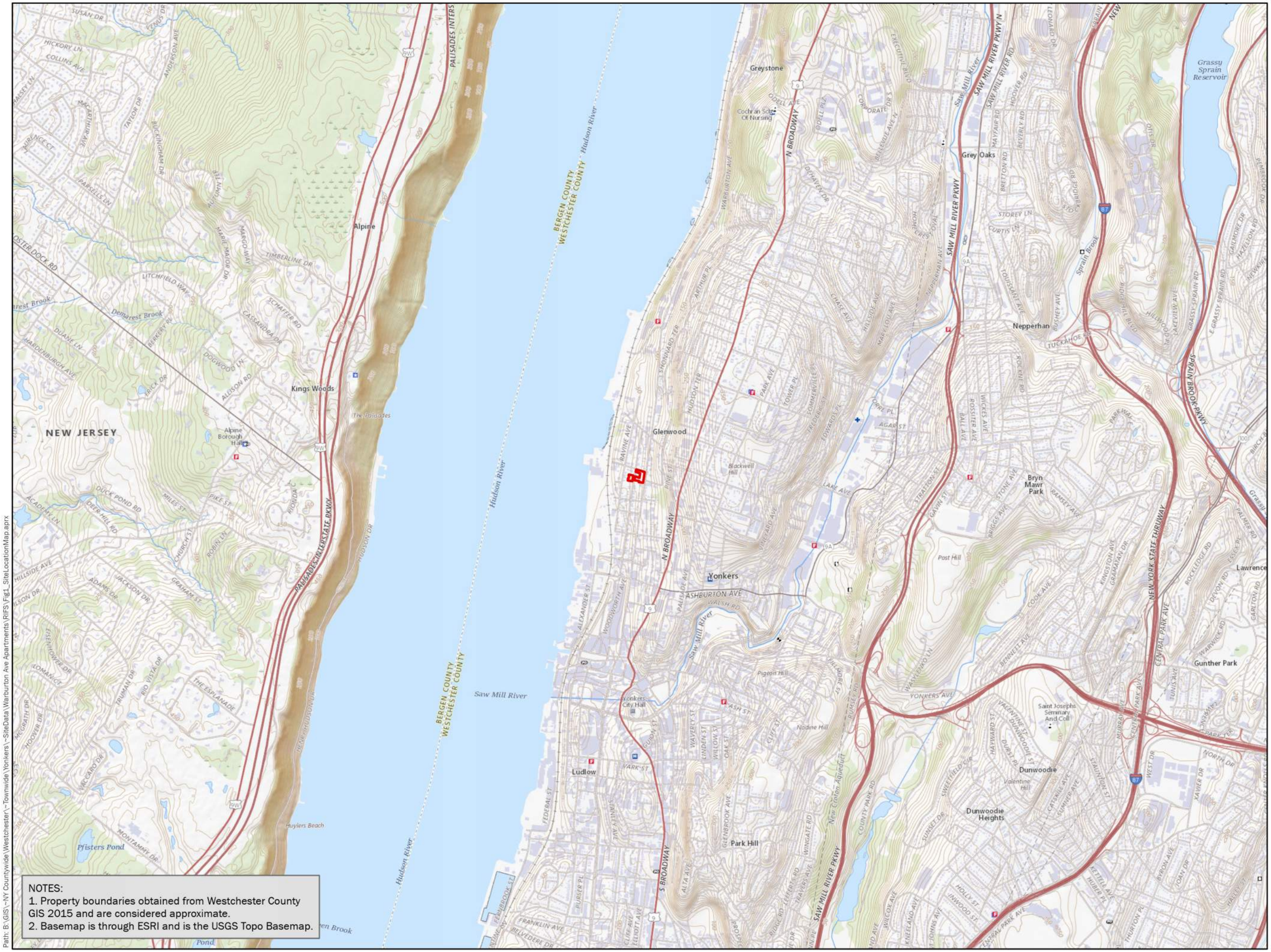
Field Work:

- The upgradient monitoring wells will be installed by Q1 2025
- The downgradient monitoring wells will be installed following receipt of the sample results from the upgradient monitoring wells in Q1 2025
- PRB installation will commence on April 30, 2025 and be completed by June 24, 2025.

Deliverables:

- The PRB installation will be documented in the Final Engineering Report (FER).

FIGURES



NOTES:
1. Property boundaries obtained from Westchester County GIS 2015 and are considered approximate.
2. Basemap is through ESRI and is the USGS Topo Basemap.

Path: B:\GIS\~NY Countywide\Westchester\~Townwide\Yonkers\~SiteData\Warburton Ave Apartments\RIFS\Fig1_SiteLocationMap.aprx

LaBella
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Warburton Avenue Apartments, LLC

Warburton Dry Cleaners Site
City of Yonkers,
Westchester County, NY

Remedial Action Work Plan

N

0 1,000 2,000 Feet

1 inch equals 2,000 feet

Legend

Site Boundary

Site Location Map

FIGURE 1

LaBella Project No: 2221378
Date: January 2024

MW-5	(µg/L)	
Benzo(a)anthracene	0.04	J
Benzo(a)pyrene	0.02	J
Benzo(b)fluoranthene	0.03	J
Benzo(k)fluoranthene	0.02	J
Chrysene	0.04	J
Magnesium, Total	42,700	
Manganese, Total	1,885	
Sodium, Total	170,000	

MW-1D	(µg/L)
Tetrachloroethene	1,600
Magnesium, Total	41,600
Manganese, Total	514
Sodium, Total	55,900
Magnesium, Dissolved	43,200
Manganese, Dissolved	497
Sodium, Dissolved	79,000
Chloride	330,000

MW-1	(µg/L)	
Tetrachloroethene	160	
Benzo(a)anthracene	0.03	J
Benzo(a)pyrene	0.02	J
Benzo(b)fluoranthene	0.03	J
Benzo(k)fluoranthene	0.01	J
Chrysene	0.02	J
Iron, Total	1,380	
Magnesium, Total	43,000	
Manganese, Total	1,297	
Sodium, Total	122,000	
Iron, Dissolved	654	
Magnesium, Dissolved	43,400	
Manganese, Dissolved	2,410	
Sodium, Dissolved	170,000	
Chloride	440,000	

MW-2	(µg/L)
Tetrachloroethene	16,000
Aroclor 1242	0.18
Chromium, Total	82.7
Iron, Total	28,400
Lead, Total	29.87
Manganese, Total	809.5
Selenium, Total	13.4
Sodium, Total	32,700
Manganese, Dissolved	573.9
Sodium, Dissolved	42,000

MW-6	(µg/L)	
Tetrachloroethene	720	
Chloroform	9.2	J
Benzo(a)anthracene	0.03	J
Benzo(b)fluoranthene	0.02	J
Benzo(k)fluoranthene	0.02	J
Chrysene	0.03	J
Indeno(1,2,3-cd)pyrene	0.02	J
Iron, Total	303	
Manganese, Total	811	
Sodium, Total	91,700	

MW-3	(µg/L)	
Tetrachloroethene	8	
Benzo(a)anthracene	0.05	J
Benzo(a)pyrene	0.05	J
Benzo(b)fluoranthene	0.07	J
Benzo(k)fluoranthene	0.02	J
Chrysene	0.04	J
Indeno(1,2,3-cd)pyrene	0.04	J
Iron, Total	4870	
Lead, Total	50.41	
Manganese, Total	2190	
Manganese, Dissolved	2236	

MW-4	(µg/L)	
Tetrachloroethene	1,500	
Trichloroethene	8.7	
Benzo(a)anthracene	0.02	J
Iron, Total	4,770	
Magnesium, Total	43,200	
Manganese, Total	1,855	
Sodium, Total	52,500	
Magnesium, Dissolved	48,200	
Manganese, Dissolved	2,249	
Sodium, Dissolved	69,900	
Chloride	260,000	

MW-5
MW-1D
MW-1
MW-2
MW-3
MW-4
MW-6
SM #52110
SM #52109
Former Glenwood Cleaners
Former Rappaport Plaza Cleaners
Point Street
Warburton Avenue
Woodworth Avenue
Wicker Street
20" VIT
20" VIT

NOTES:
1. Property boundaries obtained from Westchester County GIS 2015 and are considered approximate.
2. Aerial Image obtained from New York State GIS Clearinghouse and may not represent current conditions.
3. Monitoring well locations measured from site features and are considered approximate.
4. Municipal sewer maps provided by the City of Yonkers.

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Warburton Avenue Apartments, LLC

Warburton Dry Cleaners Site
City of Yonkers,
Westchester County, NY

Remedial Action Work Plan

N
0 20 40 Feet
1 inch equals 40 feet

- Approximate Location of Monitoring Well
- Site Boundary
- Approximate Location of Sewer Line
- Sewer Manhole

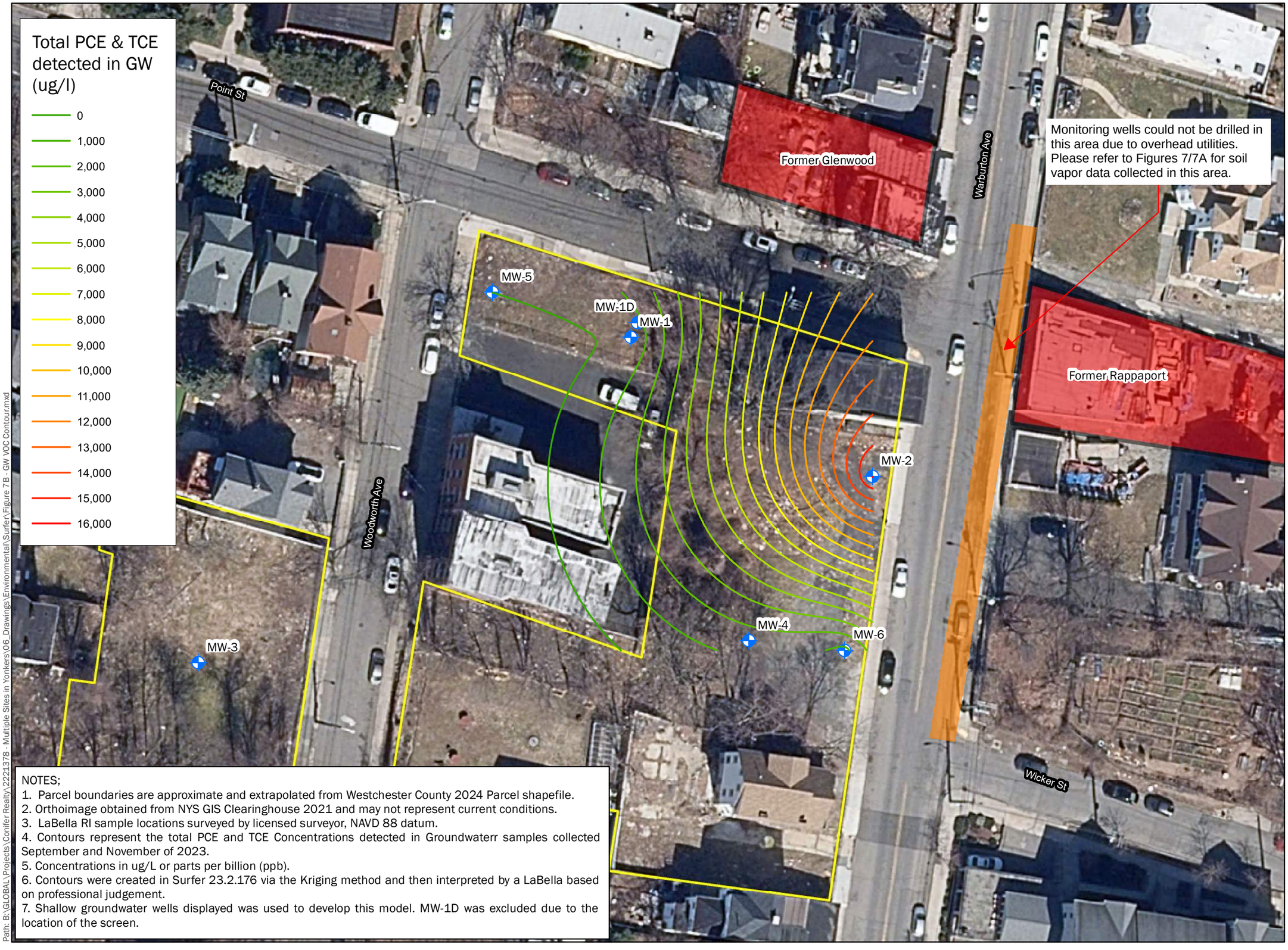
Groundwater Sampling Locations with AWQS Exceedances

FIGURE 2

LaBella Project No: 2221378
Date: March 2024

Creators: EG, EH Reviewer: RK

Path: B:\GIS\~NY Countywide\Westchester\~Townwide\Yonkers\~SiteData\Warburton Ave Apartments\RIFS\Fig10_GroundwaterSamplingLocationsAndResults.aprx



NOTES;
1. Parcel boundaries are approximate and extrapolated from Westchester County 2024 Parcel shapefile.
2. Orthoimage obtained from NYS GIS Clearinghouse 2021 and may not represent current conditions.
3. LaBella RI sample locations surveyed by licensed surveyor, NAVD 88 datum.
4. Contours represent the total PCE and TCE Concentrations detected in Groundwaterr samples collected September and November of 2023.
5. Concentrations in ug/L or parts per billion (ppb).
6. Contours were created in Surfer 23.2.176 via the Kriging method and then interpreted by a LaBella based on professional judgement.
7. Shallow groundwater wells displayed was used to develop this model. MW-1D was excluded due to the location of the screen.

Path: B:\GLOBAL\Projects\Conifer Realty\2221378 - Multiple Sites in Yonkers\06_Drawings\Environmental\Surfer\Figure 7B - GW VOC Contour.mxd

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Warburton Avenue, Aparments, LLC

Warburton Dry Cleaners Site
City of Yonkers
Westchester County, NY

Remedial Action Work Plan

N

0 20 40 Feet

1 inch = 40 feet

Legend
- Monitoring Well
- Adjacent Dry Cleaners
- Site Boundary

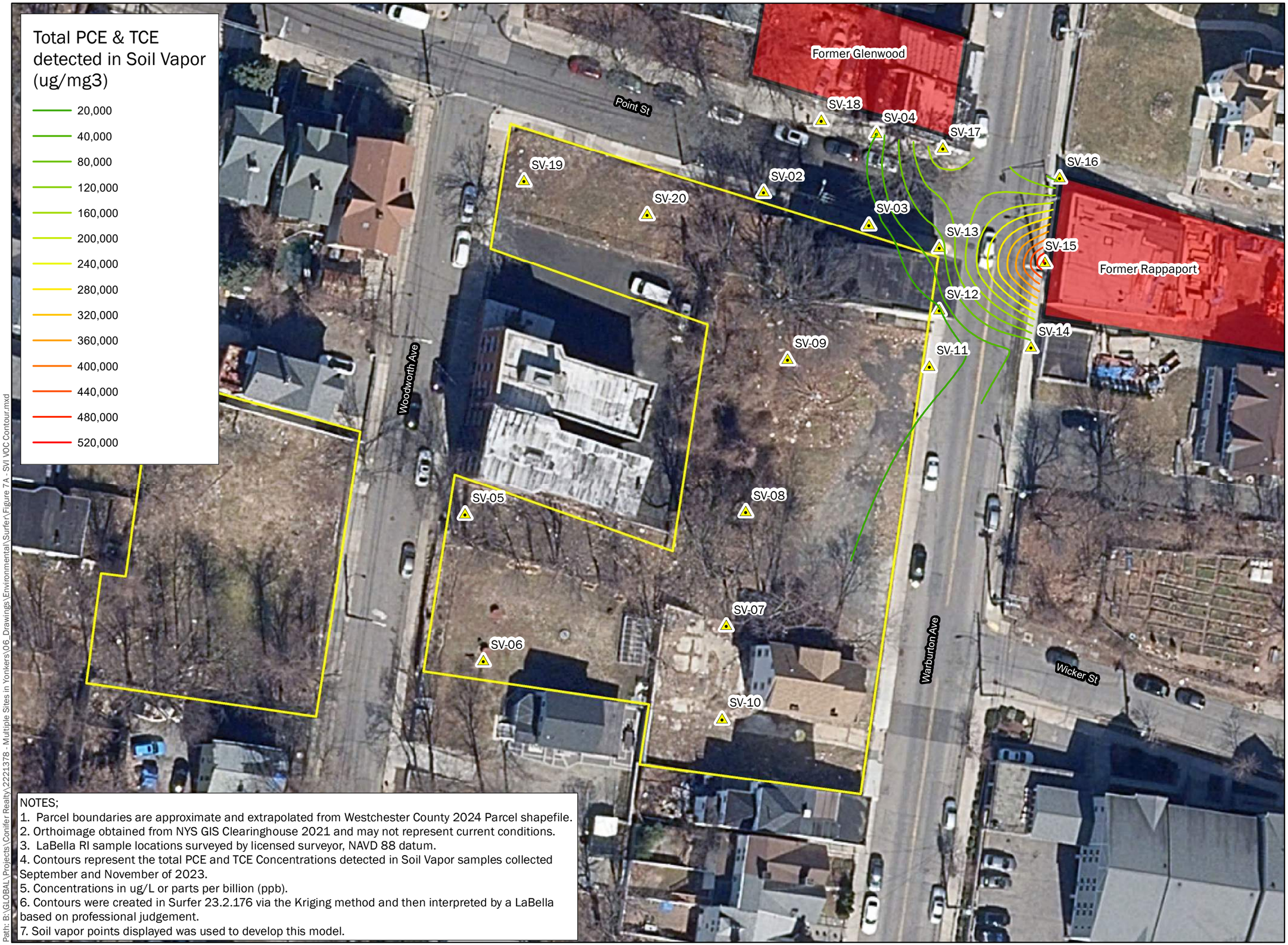
Intended to print as 11" x 17".

PCE & TCE in Groundwater Contour Map

FIGURE 3A

LaBella Project No: 222079

Date: 3/15/2024



NOTES;
1. Parcel boundaries are approximate and extrapolated from Westchester County 2024 Parcel shapefile.
2. Orthoimage obtained from NYS GIS Clearinghouse 2021 and may not represent current conditions.
3. LaBella RI sample locations surveyed by licensed surveyor, NAVD 88 datum.
4. Contours represent the total PCE and TCE Concentrations detected in Soil Vapor samples collected September and November of 2023.
5. Concentrations in ug/L or parts per billion (ppb).
6. Contours were created in Surfer 23.2.176 via the Kriging method and then interpreted by a LaBella based on professional judgement.
7. Soil vapor points displayed was used to develop this model.

LaBella
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Warburton Avenue, Aparments, LLC

Warburton Dry Cleaners Site
City of Yonkers
Westchester County, NY

Remedial Action Work Plan

N

0 20 40 Feet

1 inch = 40 feet

Legend
- Soil Vapor Point
- Adjacent Dry Cleaners
- Site Boundary

Intended to print as 11" x 17".

PCE & TCE in Soil Vapor Contour Map

FIGURE 3B

LaBella Project No: 222079

Date: 3/15/2024

Path: B:\GLOBAL\Projects\Conifer Realty\2221378 - Multiple Sites in Yonkers\06_Drawings\Environmental\Surfer\Figure 7A - SVI VOC Contour.mxd

Refer to Figure 5 for A-A' Cross Section

Appropriate Limits of PRB

Former Glenwood Cleaners

MW-2S/2D

Former Rappaport Plaza Cleaners

A

A'

MW-5

29.58

MW-1D

MW-1

29.69

31

31.5

32

32.5

MW-2

32.75

Downgradient Monitoring Well Locations

MW-3

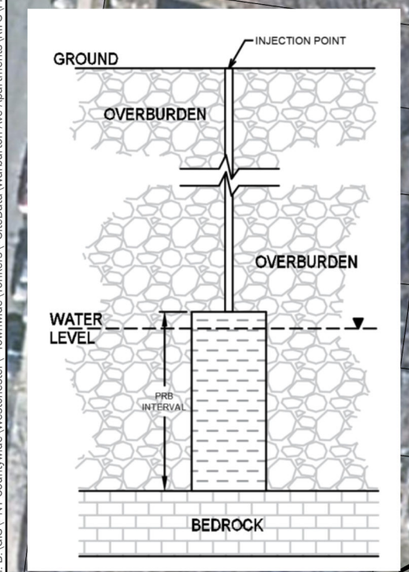
30.92

MW-4

32.05

MW-6

Approximate Groundwater Flow Direction



Cross Section

NOTES:-
1. Property boundaries obtained from Westchester County GIS 2015 and are considered approximate.
2. Aerial Image obtained from New York State GIS Clearinghouse and may not represent current conditions.
3. Monitoring well elevations were measured on 12/19/2023 (Arbitrary Datum).

Path: B:\GIS\~NY Countywide\Westchester\~Townwide\Yonkers\~SiteData\Warburton Ave Apartments\RIFS\Figure 2 - PRB Location Plan.aprx

LaBella
Powered by partnership.

Warburton Avenue Apartments, LLC

Warburton Dry Cleaners Site
City of Yonkers,
Westchester County, NY

Remedial Investigation Report

N

0 25 50 Feet

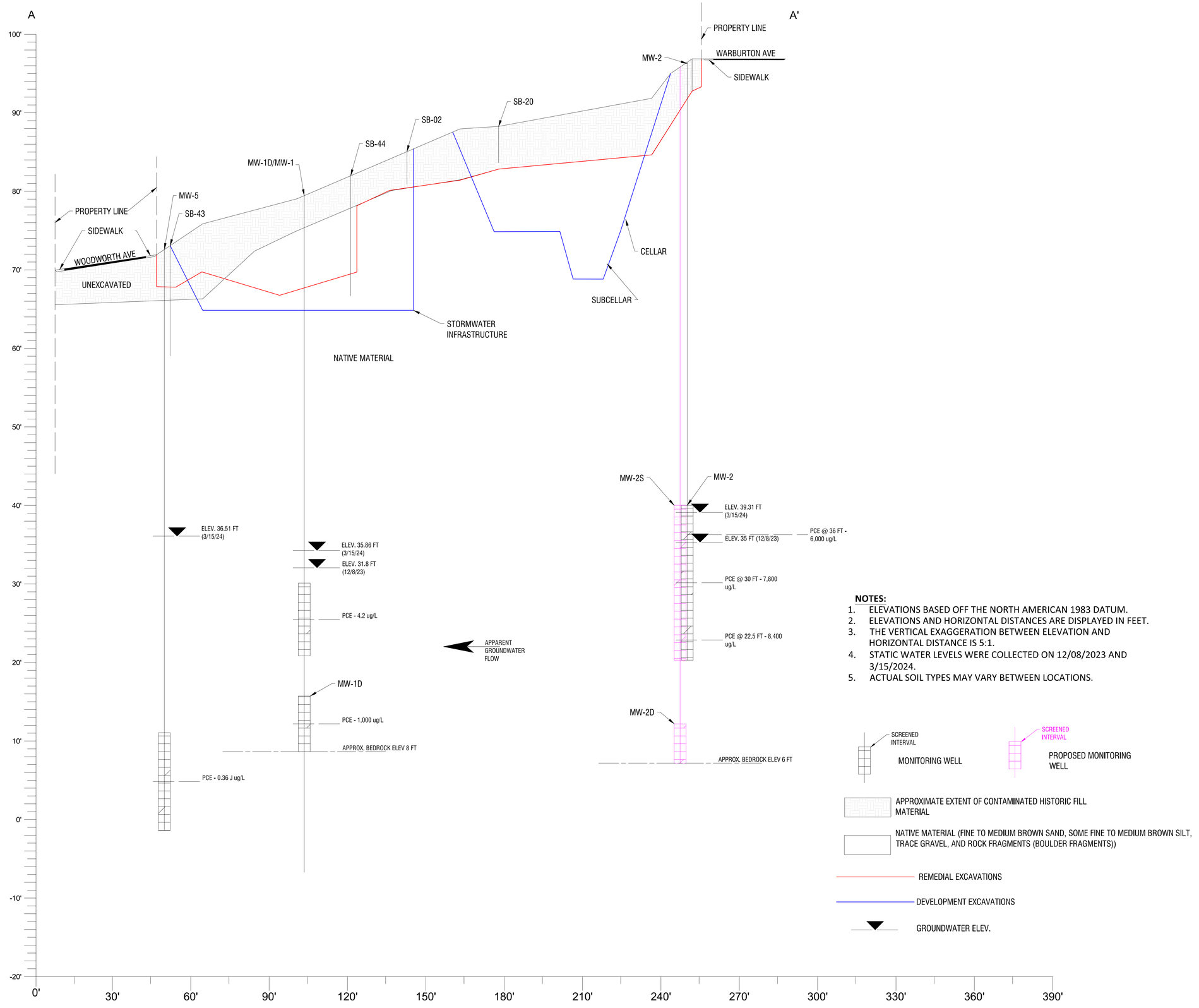
1 inch equals 50 feet

- Proposed Monitoring Well Location
- Monitoring Well Location
- PRB Injection Location
- Estimated 10ft Radius of Influence
- Site Boundary
- AOC-3: Former Dry Cleaners
- Topographic Elevation Contour Line
- Approximate Groundwater Contour Line

FIGURE 4

PRB LOCATION PLAN

LaBella Project No: 2221378
Date: November 2024



NOTES:

1. ELEVATIONS BASED OFF THE NORTH AMERICAN 1983 DATUM.
2. ELEVATIONS AND HORIZONTAL DISTANCES ARE DISPLAYED IN FEET.
3. THE VERTICAL EXAGGERATION BETWEEN ELEVATION AND HORIZONTAL DISTANCE IS 5:1.
4. STATIC WATER LEVELS WERE COLLECTED ON 12/08/2023 AND 3/15/2024.
5. ACTUAL SOIL TYPES MAY VARY BETWEEN LOCATIONS.

NO. | BY | DATE | REVISION

LaBella
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PROJECT/CLIENT
PERMEABLE REACTIVE BARRIER WORK PLAN
WARBURTON AVE APARTMENTS
WARBURTON DRY CLEANERS SITE
CITY OF YONKERS NY

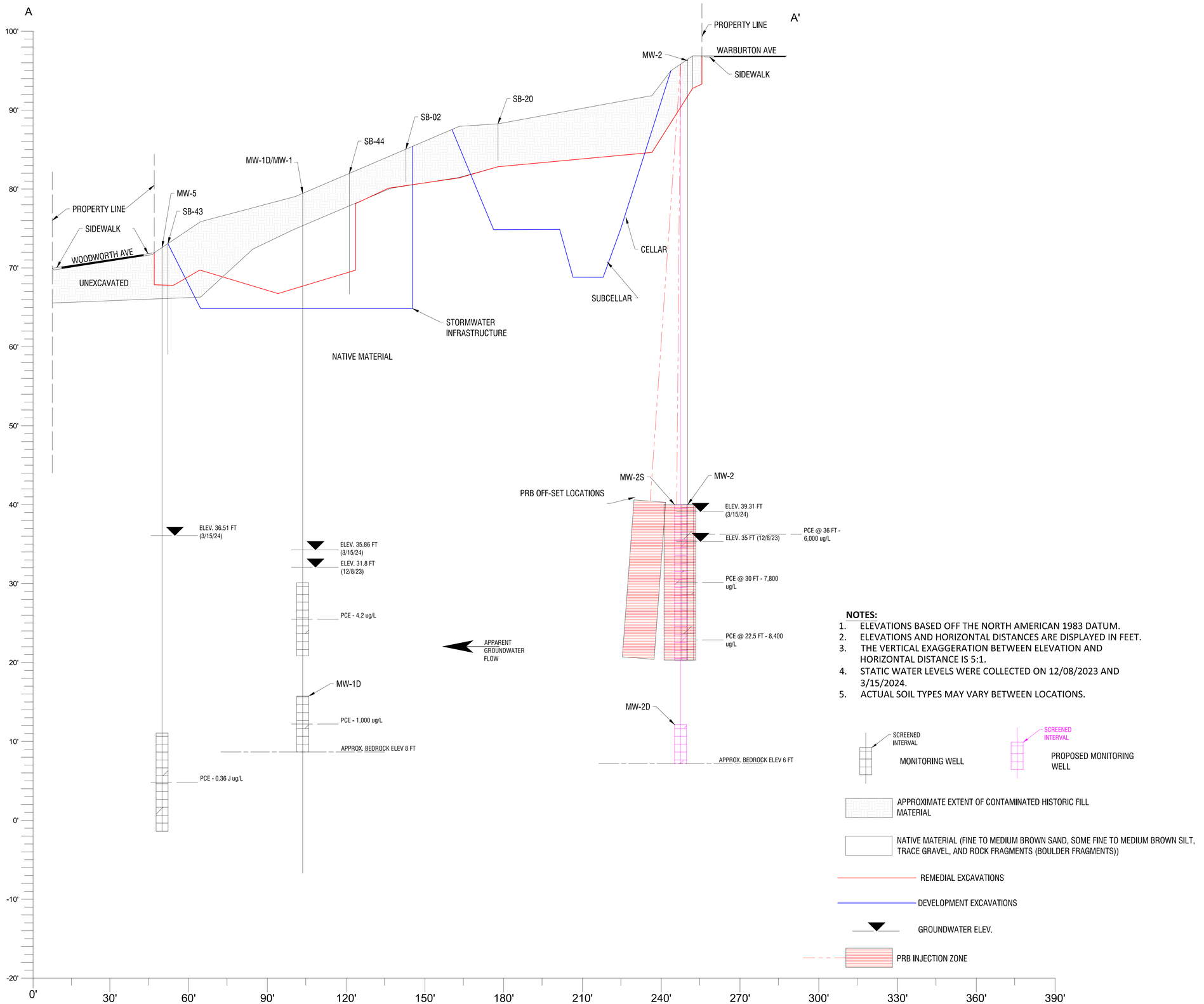
DRAWING TITLE
CROSS SECTION A-A'

DESIGNED BY: DN
DRAWN BY: CC
REVIEWED BY: DN

ISSUED FOR: FINAL
DATE: NOVEMBER 12, 2024

PROJECT/DRAWING NUMBER
2221378

FIGURE 5



NOTES:

1. ELEVATIONS BASED OFF THE NORTH AMERICAN 1983 DATUM.
2. ELEVATIONS AND HORIZONTAL DISTANCES ARE DISPLAYED IN FEET.
3. THE VERTICAL EXAGGERATION BETWEEN ELEVATION AND HORIZONTAL DISTANCE IS 5:1.
4. STATIC WATER LEVELS WERE COLLECTED ON 12/08/2023 AND 3/15/2024.
5. ACTUAL SOIL TYPES MAY VARY BETWEEN LOCATIONS.

SCREENED INTERVAL — MONITORING WELL

SCREENED INTERVAL — PROPOSED MONITORING WELL

APPROXIMATE EXTENT OF CONTAMINATED HISTORIC FILL MATERIAL

NATIVE MATERIAL (FINE TO MEDIUM BROWN SAND, SOME FINE TO MEDIUM BROWN SILT, TRACE GRAVEL, AND ROCK FRAGMENTS (BOULDER FRAGMENTS))

REMEDIAL EXCAVATIONS

DEVELOPMENT EXCAVATIONS

GROUNDWATER ELEV.

PRB INJECTION ZONE

NO.	REVISION	BY	DATE
:	:	:	:
:	:	:	:
:	:	:	:
:	:	:	:
:	:	:	:
:	:	:	:

LaBella
Powered by partnership.

PROJECT/CLIENT

PERMEABLE REACTIVE BARRIER WORK PLAN

WARBURTON AVE APARTMENTS
WARBURTON DRY CLEANERS SITE
CITY OF YONKERS NY

DRAWING TITLE

CROSS SECTION A-A'

DESIGNED BY: DN
DRAWN BY: CC
REVIEWED BY: DN

ISSUED FOR: FINAL

DATE: NOVEMBER 12, 2024

PROJECT/DRAWING NUMBER

2221378

FIGURE 6

APPENDIX A

Slug Testing Summary

AQTESOLV Data Interpretation

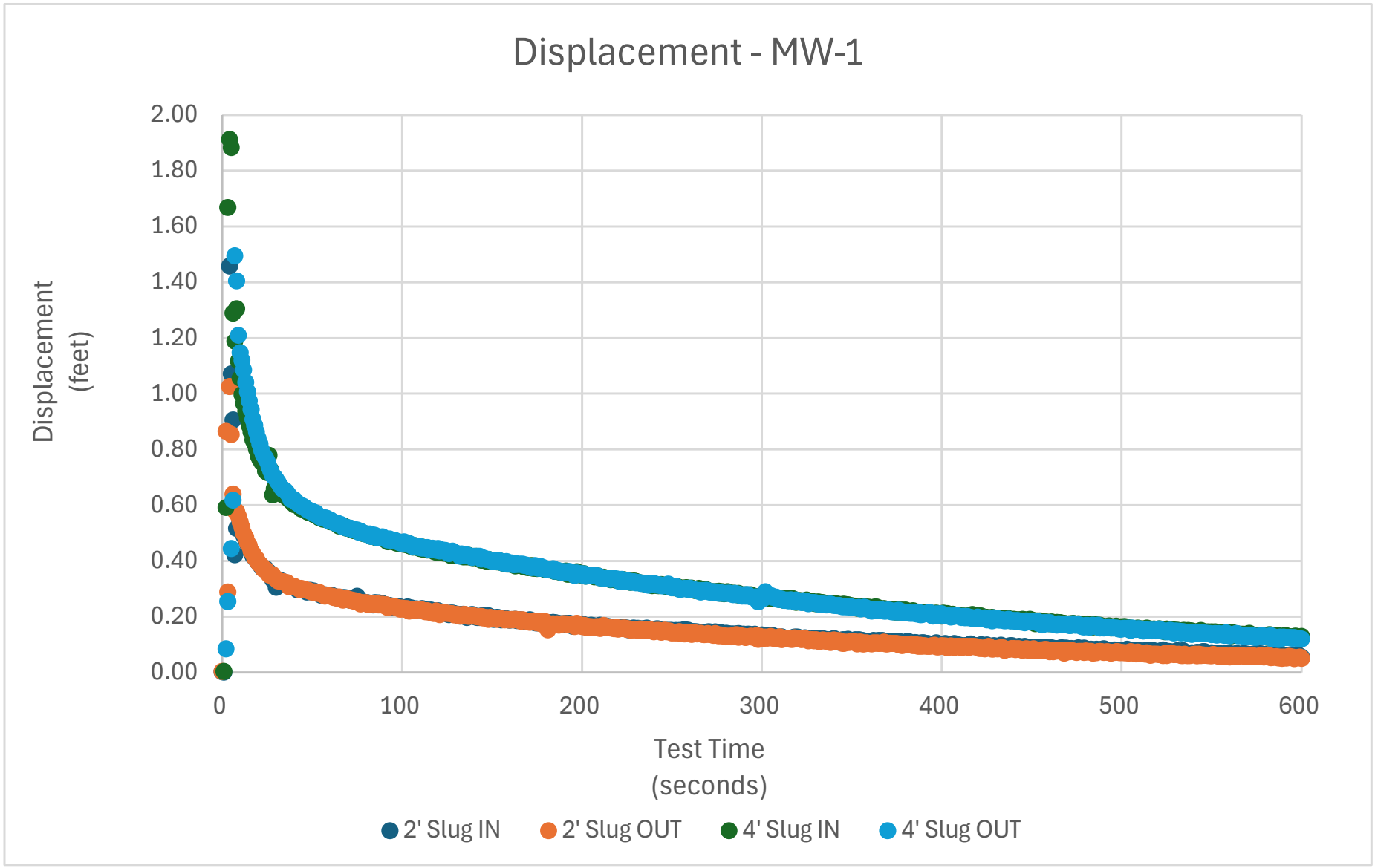
Summary of Hydraulic Conductivity Testing Results
June-July, 2024
Warburton Dry Cleaners Site
321 Warburton Avenue
Yonkers, New York

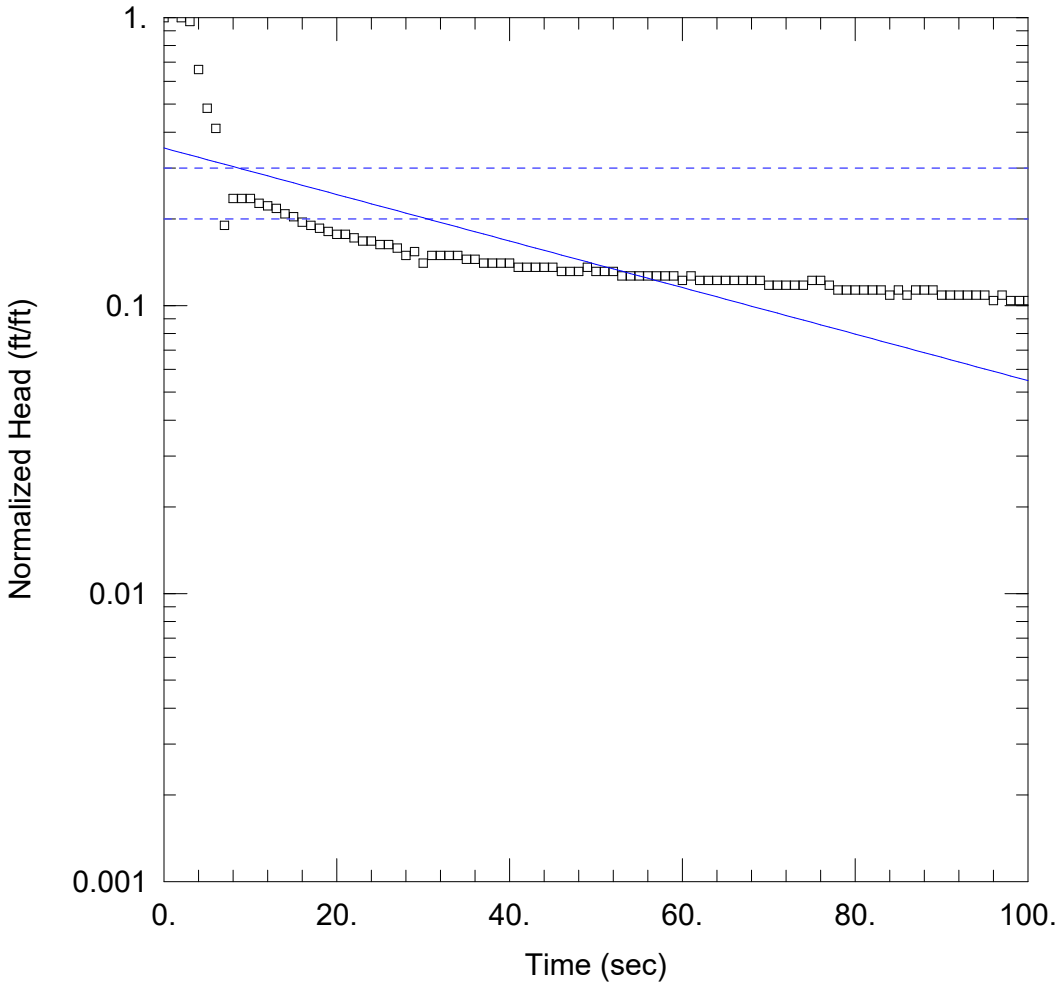
Well ID	Slug Length	Slug IN/OUT	Test	June, 2024				July, 2024							
				AQTESOLVE SOLUTION				AQTESOLVE SOLUTION				VISUAL SOLUTION			
				Hydraulic Conductivity*		Average Hydraulic Conductivity		Hydraulic Conductivity*		Average Hydraulic Conductivity		Hydraulic Conductivity*		Average Hydraulic Conductivity	
				cm/sec	ft/day	cm/sec	ft/day	cm/sec	ft/day	cm/sec	ft/day	cm/sec	ft/day	cm/sec	ft/day
MW-1	2.0	IN	1	NOT TESTED				2.02E-03	5.72	1.24E-03	3.52	2.73E-03	7.73	2.87E-03	8.14
		OUT	1					1.06E-03	3.01			3.29E-03	9.32		
	4.0	IN	1					1.07E-03	3.02			2.22E-03	6.29		
		OUT	1					8.22E-04	2.33			3.26E-03	9.23		
MW-1D	2.0	IN	1	NOT TESTED				4.53E-03	12.84	4.96E-03	14.06	6.82E-03	19.32	6.77E-03	19.17
		OUT	1					5.56E-03	15.75			7.33E-03	20.77		
	4.0	IN	1					5.40E-03	15.31			7.01E-03	19.87		
		OUT	1					5.04E-03	14.28			7.49E-03	21.23		
	5 Gallon	IN	1					4.27E-03	12.10			5.18E-03	14.68		
MW-2	2.0	IN	1	6.84E-04	1.94	6.19E-04	1.75	NOT TESTED							
		OUT	1	6.06E-04	1.72										
	4.0	IN	1	6.54E-04	1.85										
		OUT	1	5.33E-04	1.51										
MW-4	2.0	IN	1	2.13E-04	0.60	2.26E-04	0.64	NOT TESTED							
			2	2.01E-04	0.57										
		OUT	1	2.50E-04	0.71										
			2	2.58E-04	0.73										
	4.0	IN	1	1.71E-04	0.48										
		OUT	1	2.66E-04	0.75										
MW-5	2.0	IN		NOT TESTED				9.89E-03	28.02	8.01E-03	22.70	1.34E-02	37.92	1.38E-02	39.01
		OUT						1.20E-02	33.95			2.25E-02	63.68		
	4.0	IN						6.04E-03	17.12			9.99E-03	28.31		
		OUT						9.17E-03	26.00			1.99E-02	56.40		
	5 Gallon	IN	TEST-1					6.18E-03	17.52			8.85E-03	25.08		
		IN	TEST-2					4.81E-03	13.62			8.00E-03	22.67		
MW-6**	2.0	IN	1	1.29E-02	36.42	1.12E-02	31.78	NOT TESTED							
		OUT	1	1.35E-02	38.37										
	4.0	IN	1	2.03E-02	57.59										
			2	6.00E-03	16.99										
		OUT	1	1.02E-02	28.82										
			2	4.42E-03	12.52										
	5 Gallon	IN	TEST-1	NOT TESTED				1.30E-03	3.68	1.50E-03	4.25	3.42E-03	9.68	1.54E-03	4.36
		IN	TEST-2					1.89E-03	5.34			3.26E-03	9.23		
	10 Gallon	IN	TEST-1					1.32E-03	3.74			2.56E-03	7.25		

Notes:
Slug tests conducted June 20, 2024 Through June 24, 2024 and July 30,2024
* Hydraulic conductivity given in centimeters per second and feet per day
** MW-6 results from June, 2024 testing are considered questionable

Summary of Hydraulic Conductivity Testing Results
June-July, 2024
Warburton Dry Cleaners Site
321 Warburton Avenue
Yonkers, New York

WELL MW-1
(July, 2024)


Displacement - MW-1
Displacement (feet)
2.00
1.80
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
0
100
200
300
400
500
600
Test Time (seconds)
2' Slug IN
2' Slug OUT
4' Slug IN
4' Slug OUT



JULY, 2024 SLUG TESTING (2ND ROUND)

Data Set: \...\MW-1 2' SLUG IN AUTO.aqt
Date: 08/08/24 Time: 13:21:22

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-1 (AUTO)
Test Date: July 30, 2024

AQUIFER DATA

Saturated Thickness: 13.97 ft Anisotropy Ratio (Kz/Kr): 1.

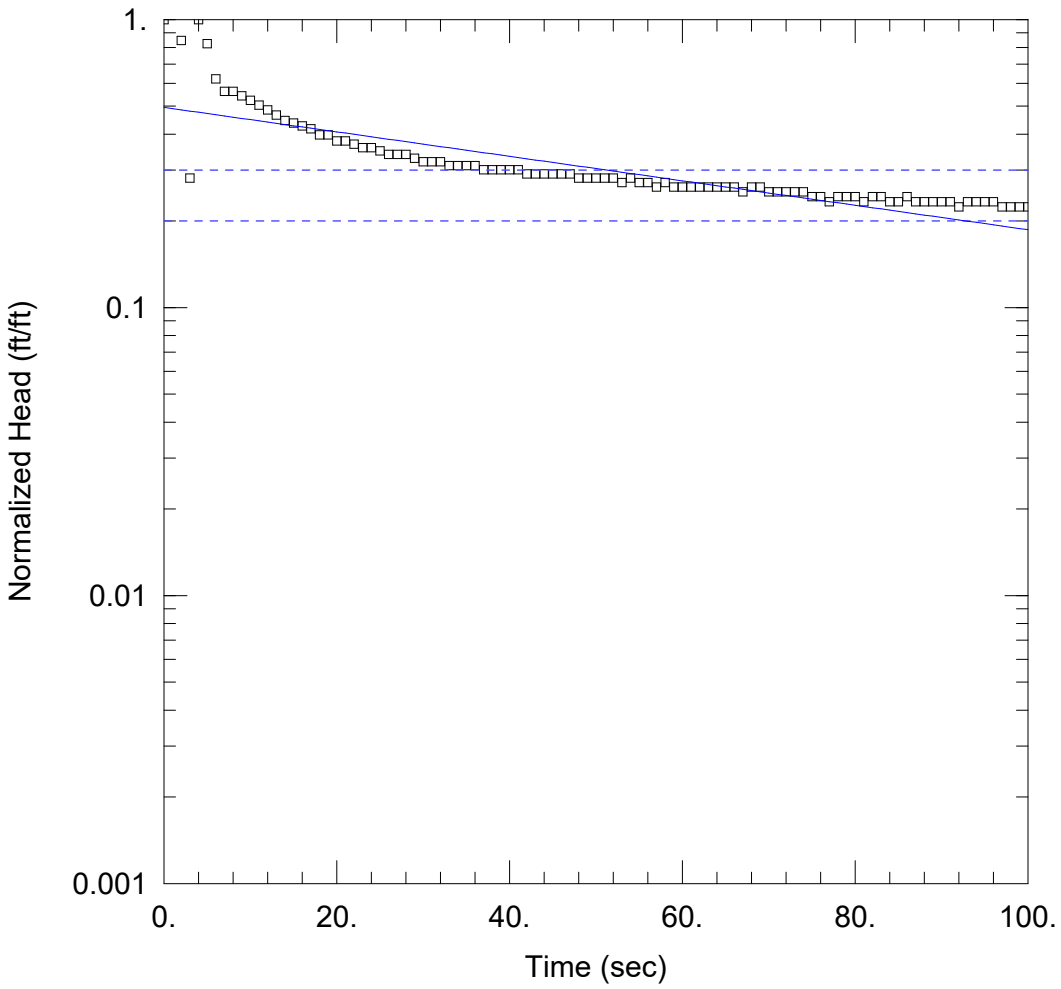
WELL DATA (MW-1 - 2' Slug IN (AUTO))

Initial Displacement: 2.21 ft
Total Well Penetration Depth: 13.97 ft
Casing Radius: 0.083 ft
Static Water Column Height: 13.97 ft
Screen Length: 10. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.002019 cm/sec y0 = 0.7787 ft



JULY, 2024 SLUG TESTING (2ND ROUND)

Data Set: \...\MW-1 2' SLUG OUT AUTO.aqt
Date: 08/08/24 Time: 13:20:59

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-1 (AUTO)
Test Date: July 30, 2024

AQUIFER DATA

Saturated Thickness: 13.97 ft Anisotropy Ratio (Kz/Kr): 1.

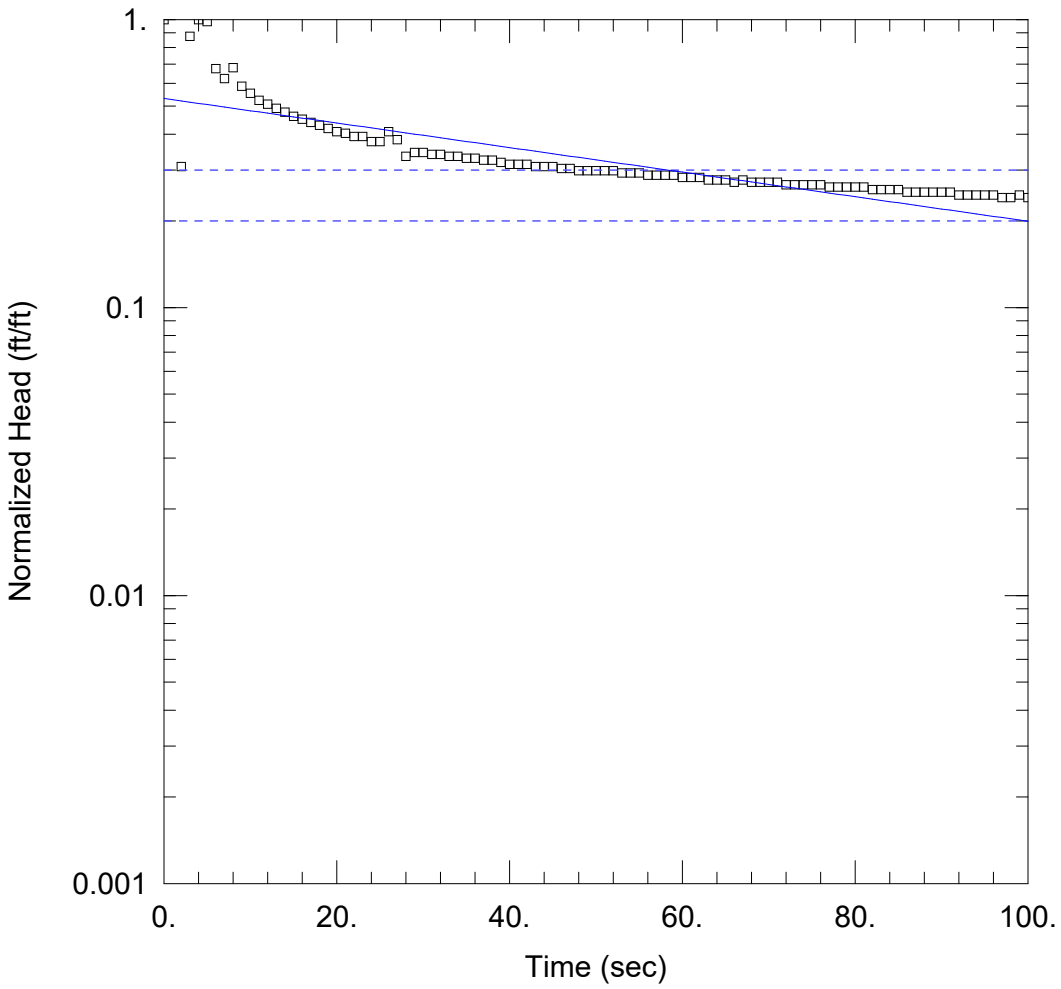
WELL DATA (MW-1 - 2' Slug OUT (AUTO))

Initial Displacement: 1.03 ft
Total Well Penetration Depth: 13.97 ft
Casing Radius: 0.083 ft
Static Water Column Height: 11.03 ft
Screen Length: 10. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.001062 cm/sec y0 = 0.5101 ft



JULY, 2024 SLUG TESTING (2ND ROUND)

Data Set: \...\MW-1 4' SLUG IN AUTO.aqt
Date: 08/08/24 Time: 13:20:12

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-1 (AUTO)
Test Date: July 30, 2024

AQUIFER DATA

Saturated Thickness: 13.97 ft Anisotropy Ratio (Kz/Kr): 1.

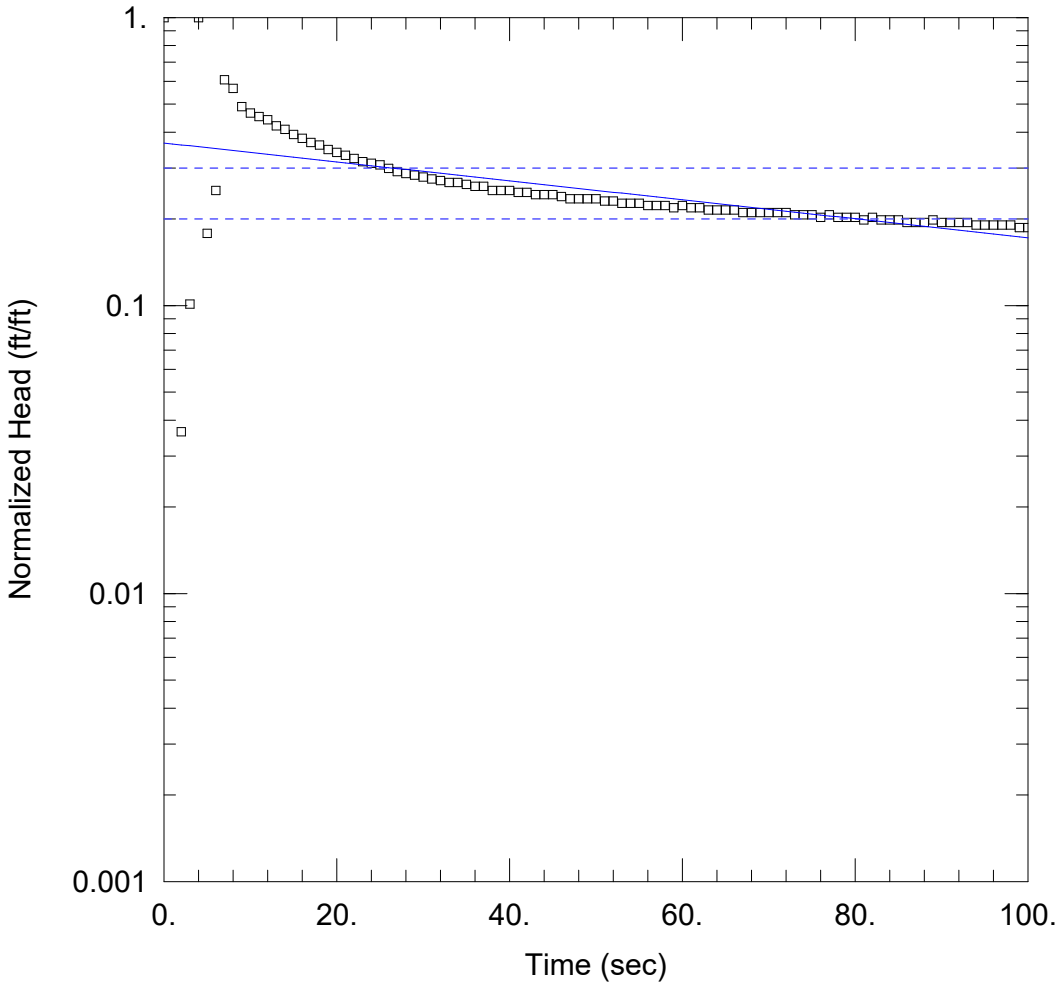
WELL DATA (MW-1 - 4' Slug IN (AUTO))

Initial Displacement: 1.91 ft
Total Well Penetration Depth: 13.97 ft
Casing Radius: 0.083 ft
Static Water Column Height: 13.97 ft
Screen Length: 10. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.001066 cm/sec y0 = 1.016 ft



JULY, 2024 SLUG TESTING (2ND ROUND)

Data Set: \...\MW-1 4' SLUG OUT AUTO.aqt
Date: 08/08/24 Time: 13:21:37

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-1 (AUTO)
Test Date: July 30, 2024

AQUIFER DATA

Saturated Thickness: 13.97 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-1 - 4' Slug OUT (AUTO))

Initial Displacement: 2.47 ft
Total Well Penetration Depth: 13.97 ft
Casing Radius: 0.083 ft
Static Water Column Height: 13.97 ft
Screen Length: 10. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

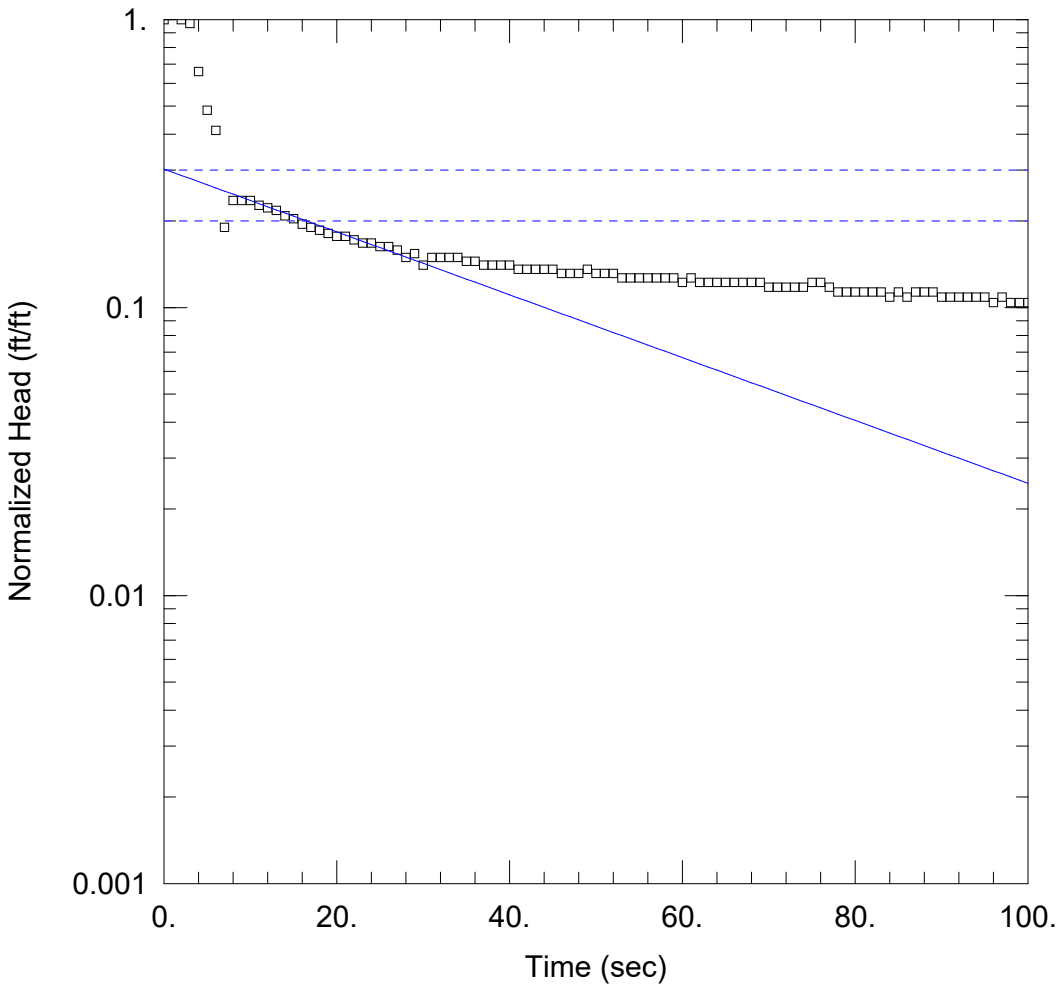
SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0008222 cm/sec y0 = 0.9058 ft

Summary of Hydraulic Conductivity Testing Results
June-July, 2024
Warburton Dry Cleaners Site
321 Warburton Avenue
Yonkers, New York

AQTESOLVE - VISUAL SOLUTION



JULY, 2024 SLUG TESTING (2ND ROUND)

Data Set: \...\MW-1 2' SLUG IN VISUAL.aqt
Date: 08/08/24 Time: 13:29:37

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-1 (VISUAL)
Test Date: July 30, 2024

AQUIFER DATA

Saturated Thickness: 13.97 ft Anisotropy Ratio (Kz/Kr): 1.

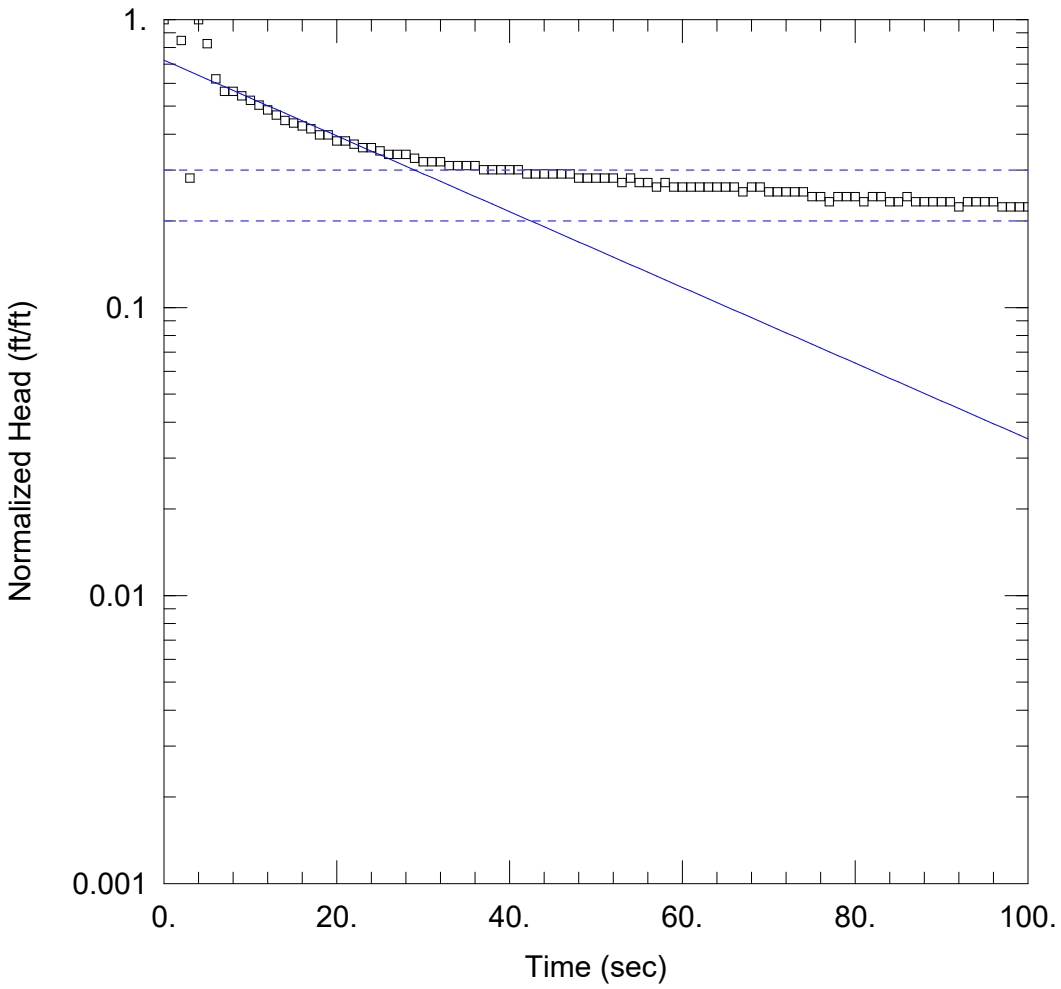
WELL DATA (MW-1 - 2' Slug IN (VISUAL))

Initial Displacement: 2.21 ft
Total Well Penetration Depth: 13.97 ft
Casing Radius: 0.083 ft
Static Water Column Height: 13.97 ft
Screen Length: 10. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.002728 cm/sec y0 = 0.6685 ft



JULY, 2024 SLUG TESTING (2ND ROUND)

Data Set: \...\MW-1 2' SLUG OUT VISUAL.aqt
Date: 08/08/24 Time: 13:29:22

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-1 (VISUAL)
Test Date: July 30, 2024

AQUIFER DATA

Saturated Thickness: 13.97 ft Anisotropy Ratio (Kz/Kr): 1.

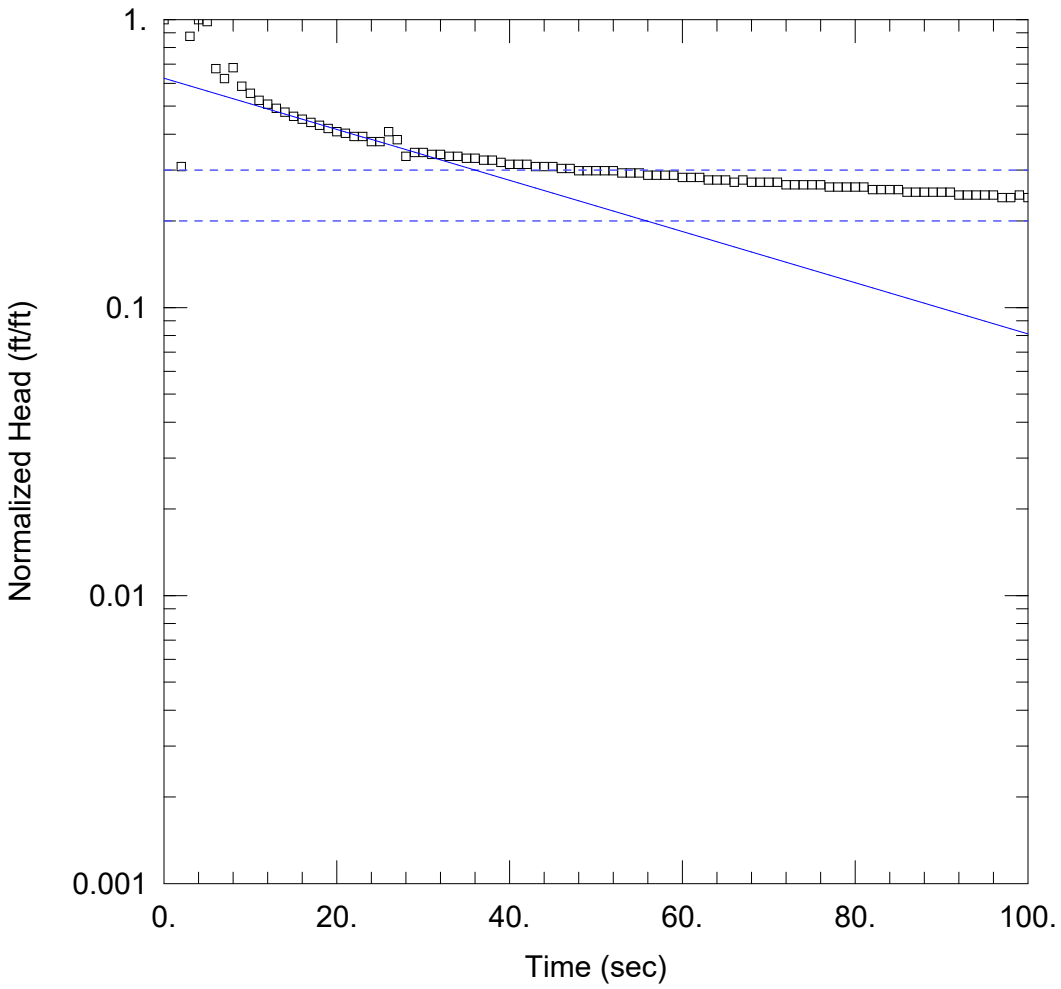
WELL DATA (MW-1 - 2' Slug OUT (VISUAL))

Initial Displacement: 1.03 ft
Total Well Penetration Depth: 13.97 ft
Casing Radius: 0.083 ft
Static Water Column Height: 11.03 ft
Screen Length: 10. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.003288 cm/sec y0 = 0.7441 ft



JULY, 2024 SLUG TESTING (2ND ROUND)

Data Set: \...\MW-1 4' SLUG IN VISUAL.aqt
Date: 08/08/24 Time: 13:30:15

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-1 (VISUAL)
Test Date: July 30, 2024

AQUIFER DATA

Saturated Thickness: 13.97 ft Anisotropy Ratio (Kz/Kr): 1.

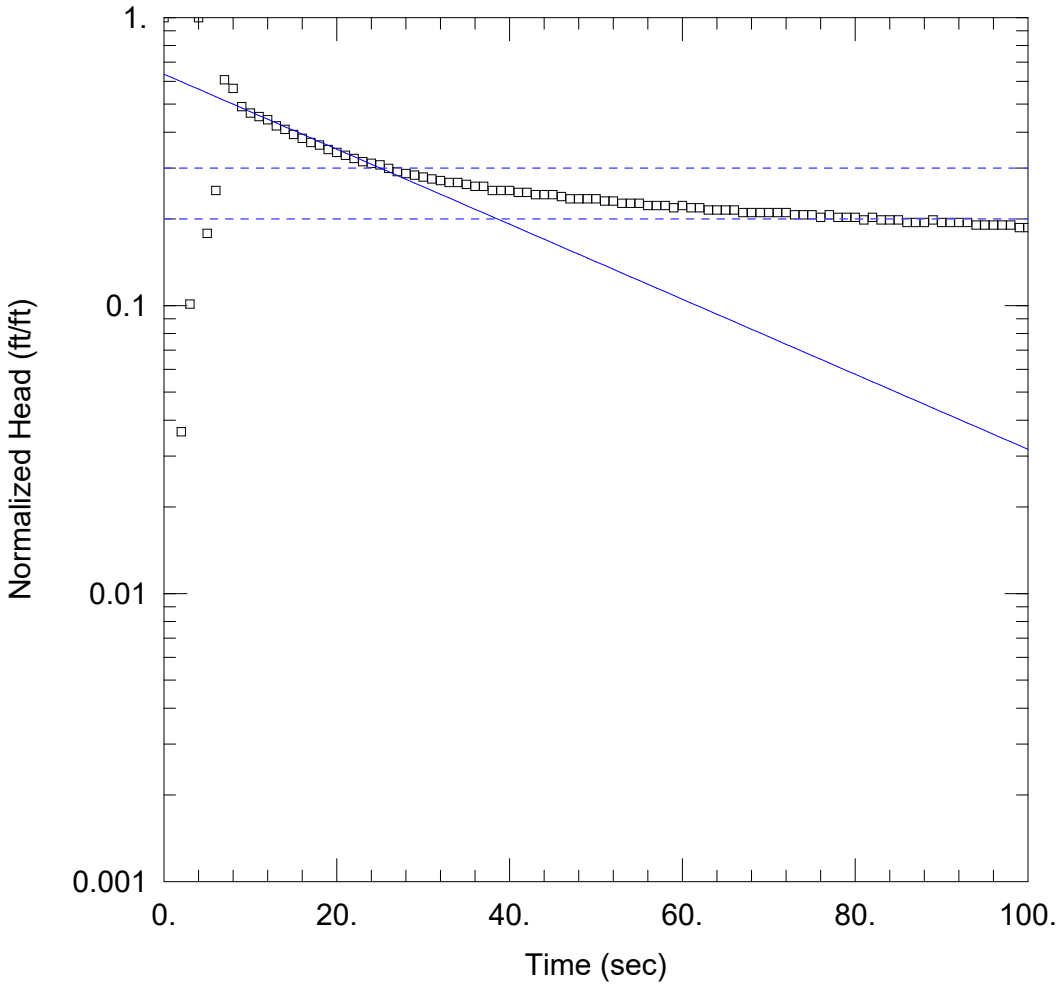
WELL DATA (MW-1 - 4' Slug IN (VISUAL))

Initial Displacement: 1.91 ft
Total Well Penetration Depth: 13.97 ft
Casing Radius: 0.083 ft
Static Water Column Height: 13.97 ft
Screen Length: 10. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.00222 cm/sec y0 = 1.195 ft



JULY, 2024 SLUG TESTING (2ND ROUND)

Data Set: \...\MW-1 4' SLUG OUT VISUAL.aqt
Date: 08/08/24 Time: 13:29:53

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-1 (VISUAL)
Test Date: July 30, 2024

AQUIFER DATA

Saturated Thickness: 13.97 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-1 - 4' Slug OUT (VISUAL))

Initial Displacement: 2.47 ft
Total Well Penetration Depth: 13.97 ft
Casing Radius: 0.083 ft
Static Water Column Height: 13.97 ft
Screen Length: 10. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

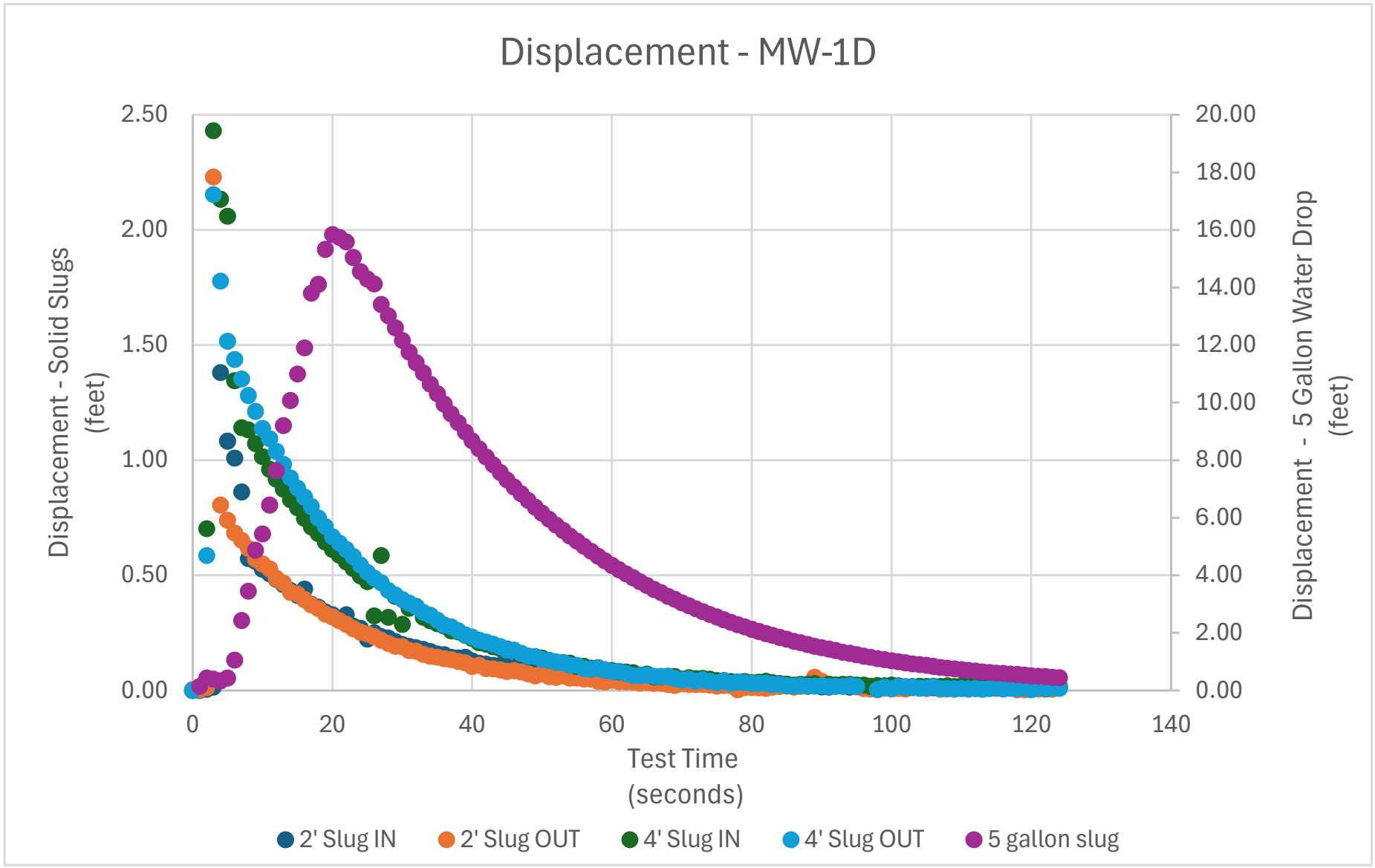
SOLUTION

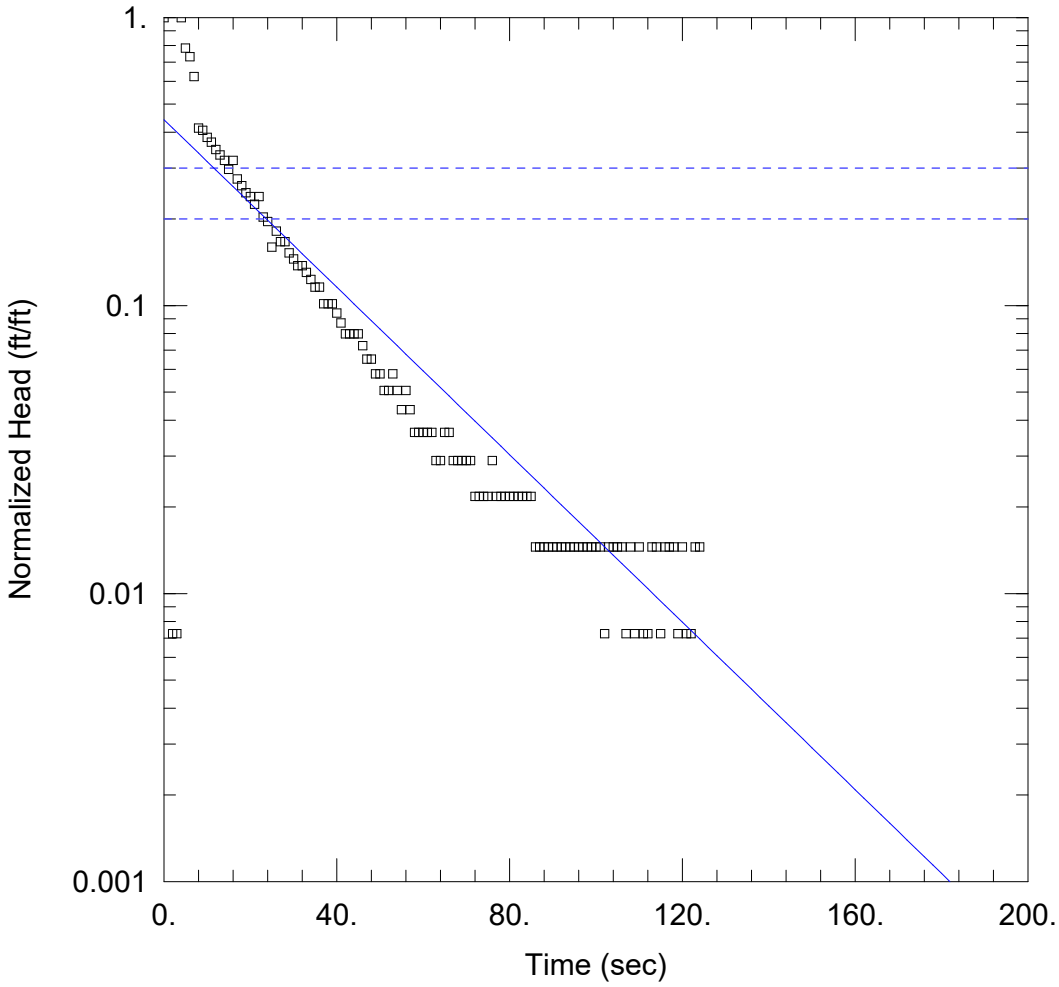
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.003257 cm/sec
y0 = 1.57 ft

Summary of Hydraulic Conductivity Testing Results
June-July, 2024
Warburton Dry Cleaners Site
321 Warburton Avenue
Yonkers, New York

WELL MW-1D

(July, 2024)


Displacement - MW-1D
Displacement - Solid Slugs (feet)
Displacement - 5 Gallon Water Drop (feet)
2.50
2.00
1.50
1.00
0.50
0.00
20.00
18.00
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
0
20
40
60
80
100
120
140
Test Time (seconds)
2' Slug IN
2' Slug OUT
4' Slug IN
4' Slug OUT
5 gallon slug



JULY, 2024 SLUG TESTING (2ND ROUND)

Data Set: \...\MW-1D 2' SLUG IN AUTO.aqt
Date: 08/08/24 Time: 13:23:00

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-1D (AUTO)
Test Date: July 30, 2024

AQUIFER DATA

Saturated Thickness: 27. ft Anisotropy Ratio (Kz/Kr): 1.

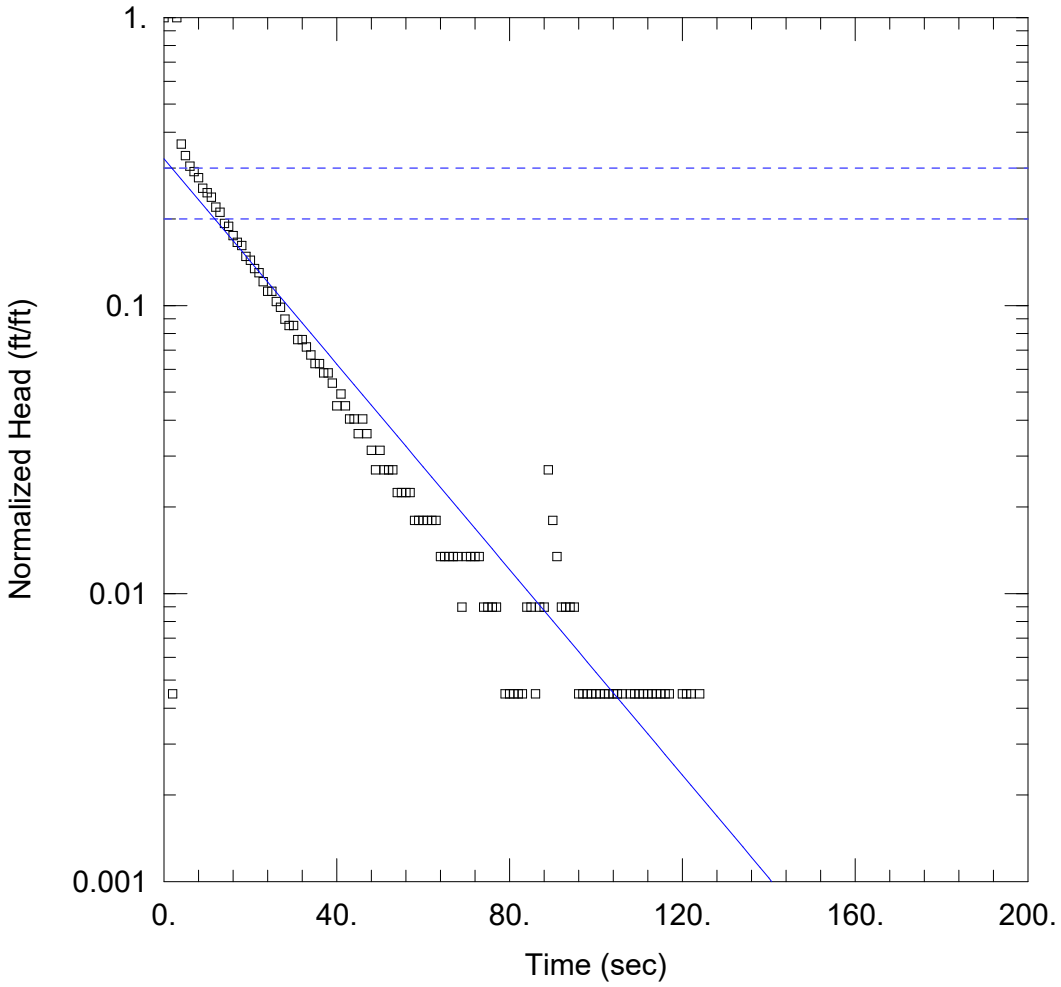
WELL DATA (MW-1D - 2' Slug IN (AUTO))

Initial Displacement: 1.38 ft
Total Well Penetration Depth: 27. ft
Casing Radius: 0.083 ft
Static Water Column Height: 27. ft
Screen Length: 9. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.00453 cm/sec y0 = 0.6097 ft



JULY, 2024 SLUG TESTING (2ND ROUND)

Data Set: \...\MW-1D 2' SLUG OUT AUTO.aqt
Date: 08/08/24 Time: 13:22:44

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-1D (AUTO)
Test Date: July 30, 2024

AQUIFER DATA

Saturated Thickness: 27. ft Anisotropy Ratio (Kz/Kr): 1.

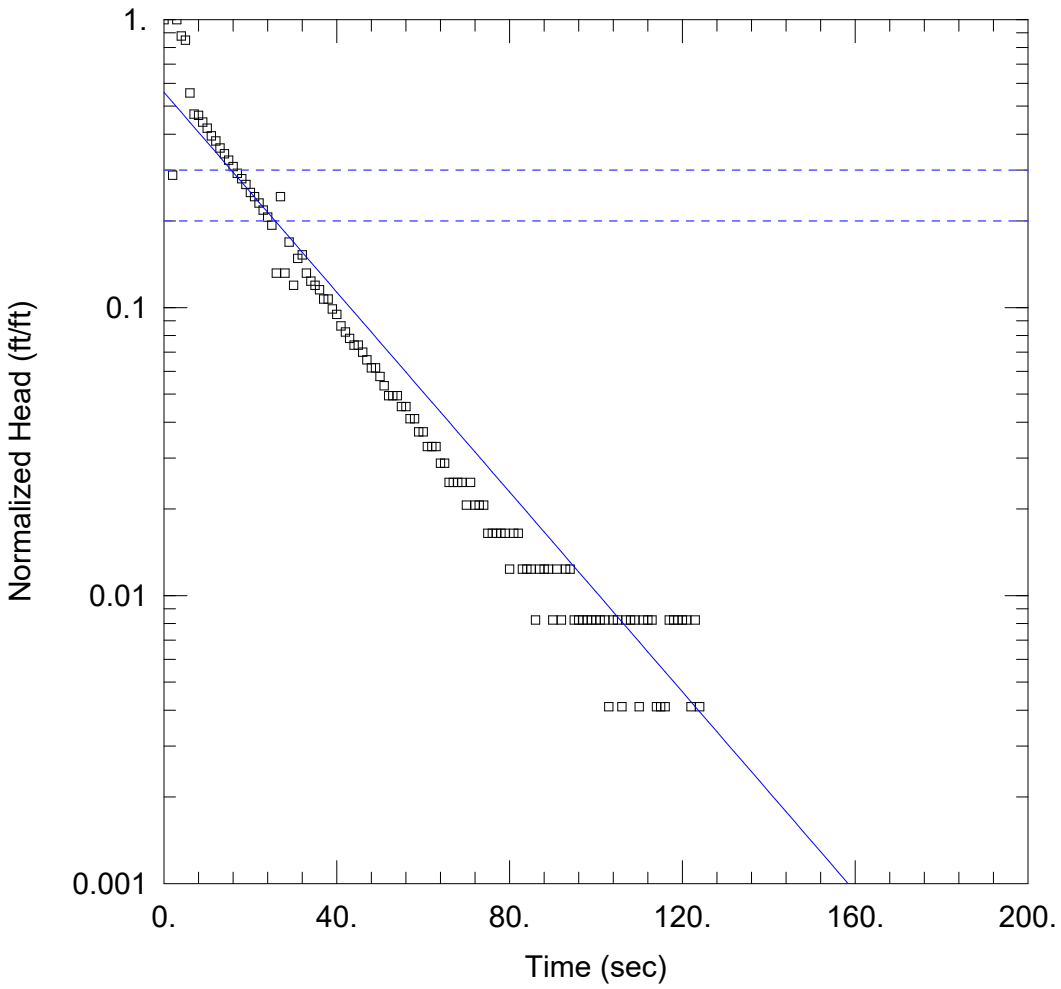
WELL DATA (MW-1D - 2' Slug OUT (AUTO))

Initial Displacement: 2.23 ft
Total Well Penetration Depth: 27. ft
Casing Radius: 0.083 ft
Static Water Column Height: 27. ft
Screen Length: 9. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.005556 cm/sec y0 = 0.7216 ft



JULY, 2024 SLUG TESTING (2ND ROUND)

Data Set: \...\MW-1D 4' SLUG IN AUTO.aqt
Date: 08/08/24 Time: 13:22:28

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-1D (AUTO)
Test Date: July 30, 2024

AQUIFER DATA

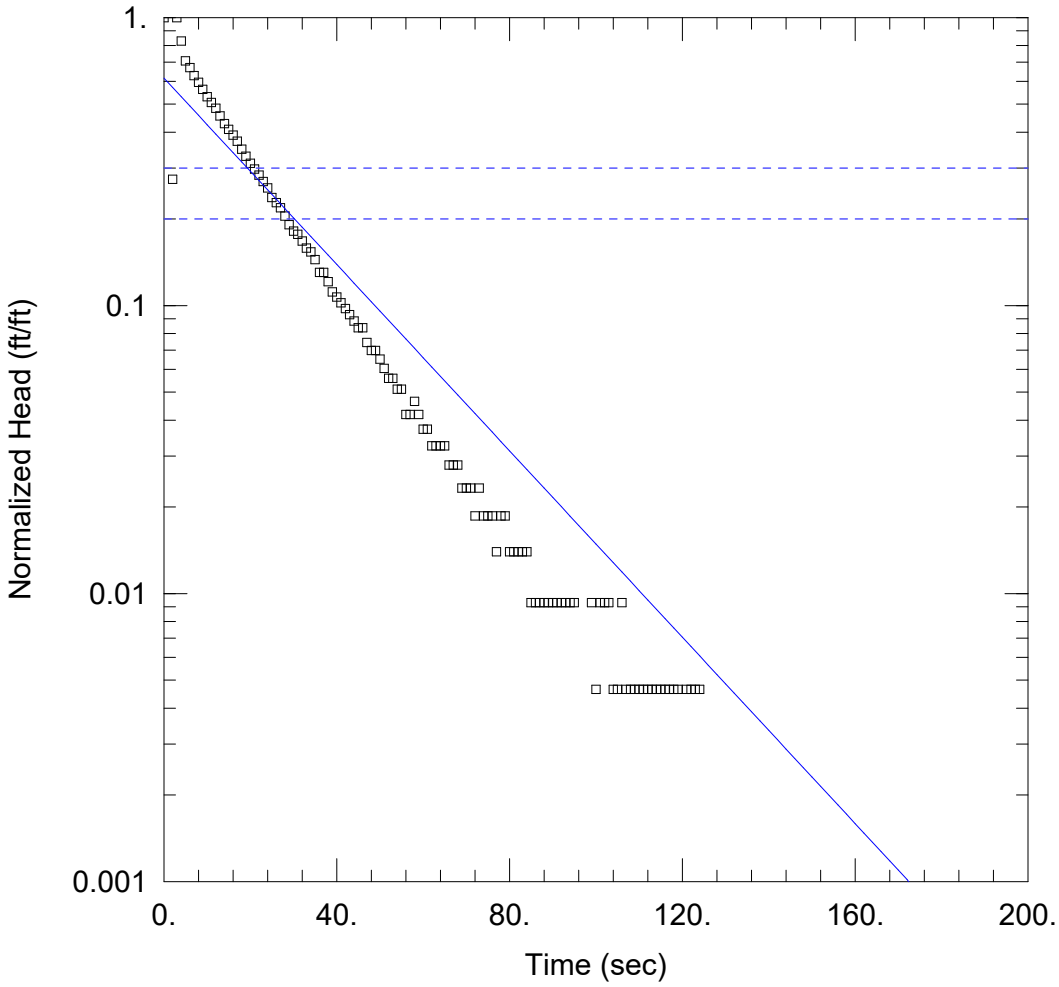
Saturated Thickness: 27. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-1D - 4' Slug IN (AUTO))

Initial Displacement: 2.43 ft
Total Well Penetration Depth: 27. ft
Casing Radius: 0.083 ft
Static Water Column Height: 27. ft
Screen Length: 9. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.005404 cm/sec
y0 = 1.358 ft



JULY, 2024 SLUG TESTING (2ND ROUND)

Data Set: \...\MW-1D 4' SLUG OUT AUTO.aqt
Date: 08/08/24 Time: 13:22:13

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-1D (AUTO)
Test Date: July 30, 2024

AQUIFER DATA

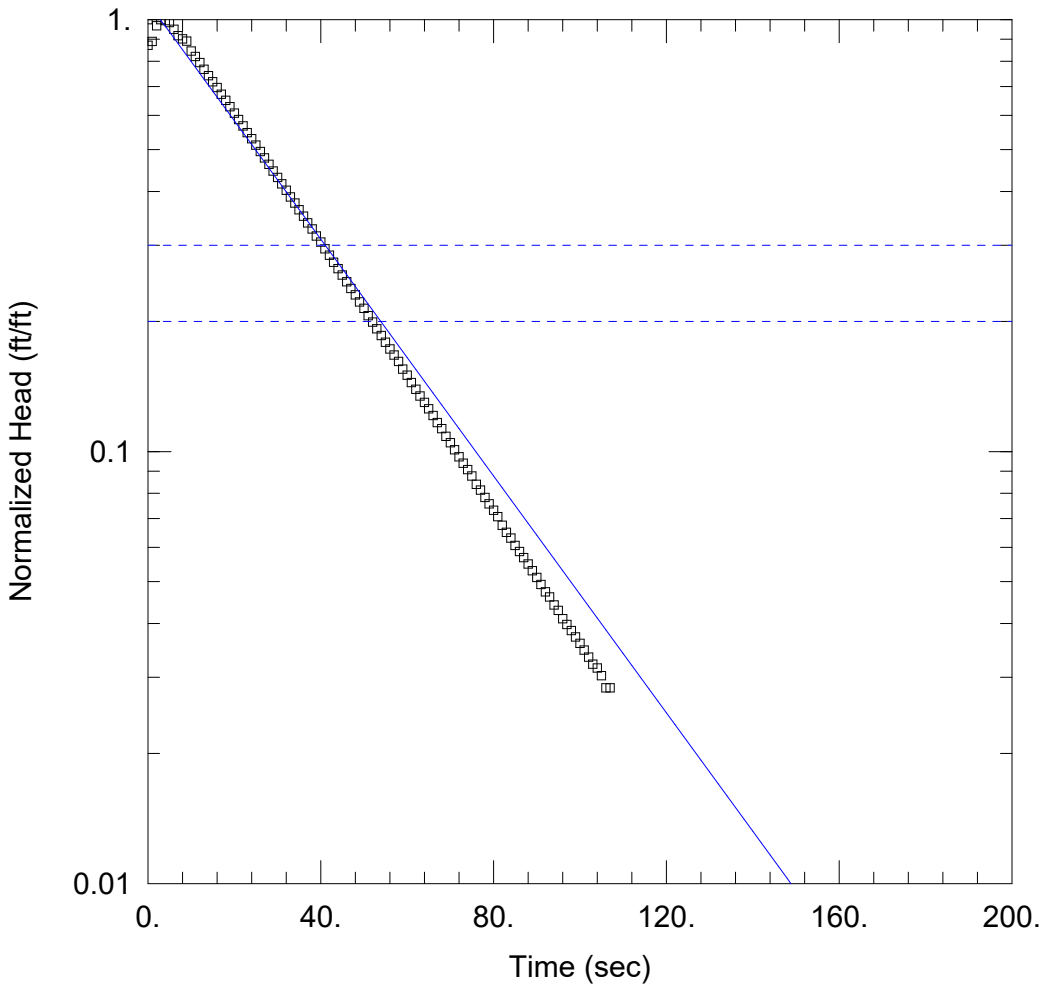
Saturated Thickness: 27. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-1D - 4' Slug OUT (AUTO))

Initial Displacement: 2.15 ft
Total Well Penetration Depth: 27. ft
Casing Radius: 0.083 ft
Static Water Column Height: 27. ft
Screen Length: 9. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.00504 cm/sec
y0 = 1.324 ft



JULY, 2024 SLUG TESTING (2ND ROUND)

Data Set: \...\MW-1D 5 Gallon AUTO.aqt
Date: 08/08/24 Time: 13:23:16

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-1D (AUTO)
Test Date: July 30, 2024

AQUIFER DATA

Saturated Thickness: 27. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-1D - 5 Gallon (AUTO))

Initial Displacement: 15.85 ft
Total Well Penetration Depth: 27. ft
Casing Radius: 0.083 ft
Static Water Column Height: 27. ft
Screen Length: 9. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

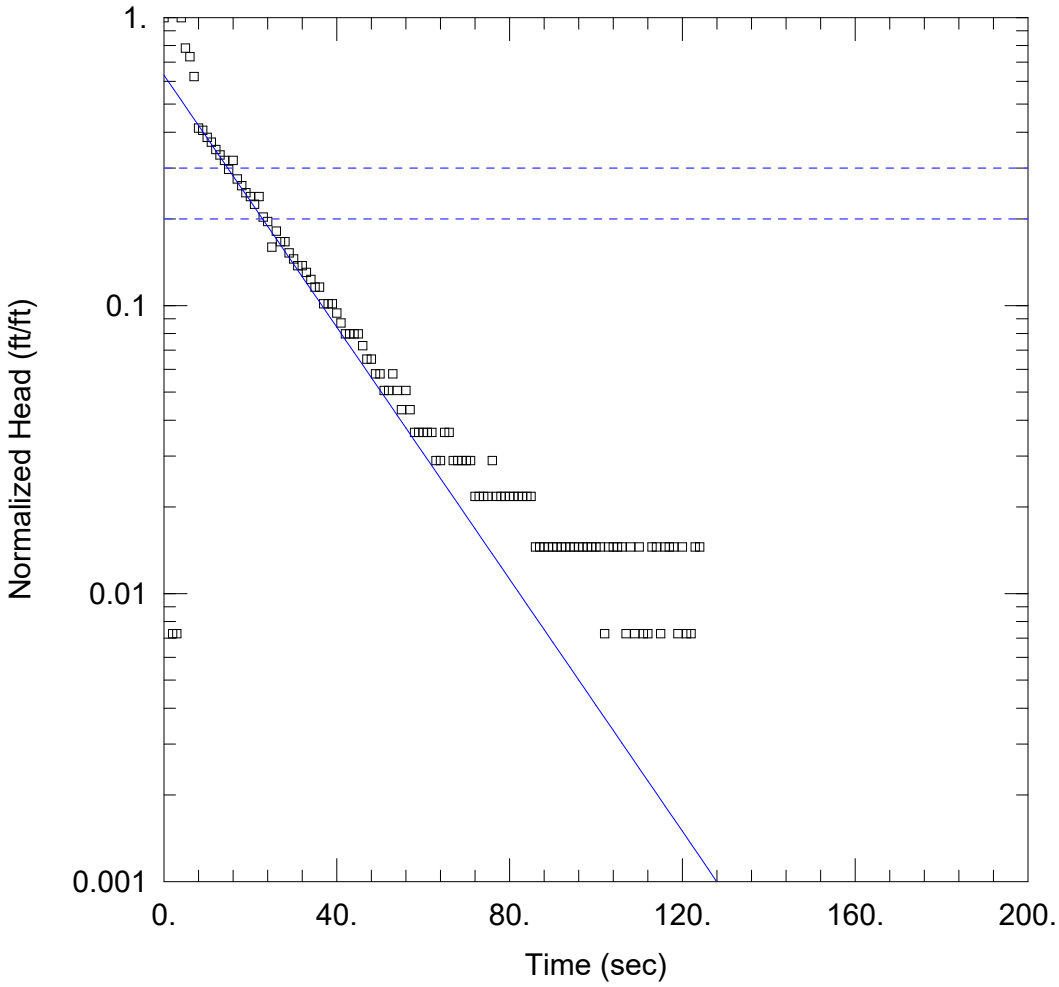
SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.004268 cm/sec y0 = 17.36 ft

Summary of Hydraulic Conductivity Testing Results
June-July, 2024
Warburton Dry Cleaners Site
321 Warburton Avenue
Yonkers, New York

AQTESOLVE - VISUAL SOLUTION



JULY, 2024 SLUG TESTING (2ND ROUND)

Data Set: \...\MW-1D 2' SLUG IN VISUAL.aqt
Date: 08/08/24 Time: 13:31:41

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-1D (VISUAL)
Test Date: July 30, 2024

AQUIFER DATA

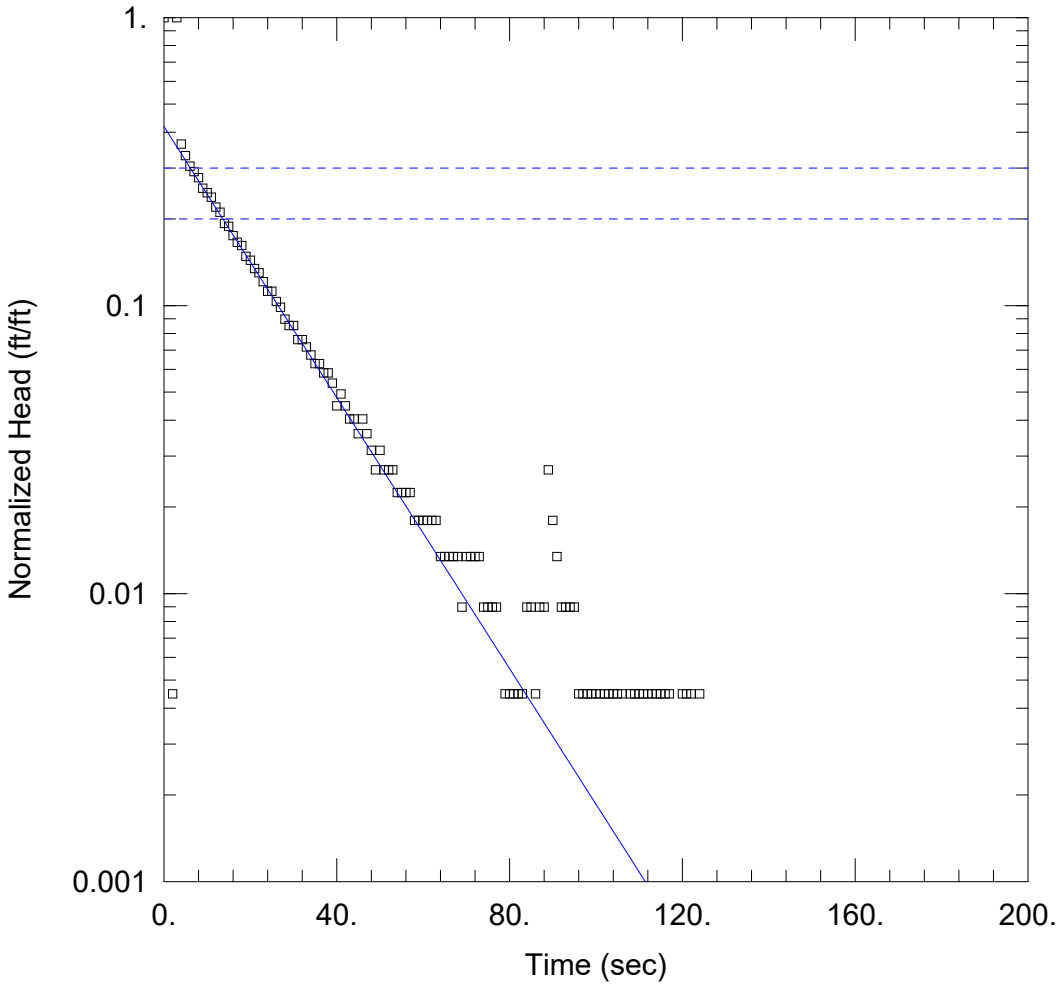
Saturated Thickness: 27. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-1D - 2' Slug IN (VISUAL))

Initial Displacement: 1.38 ft
Total Well Penetration Depth: 27. ft
Casing Radius: 0.083 ft
Static Water Column Height: 27. ft
Screen Length: 9. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.006816 cm/sec
y0 = 0.8707 ft



JULY, 2024 SLUG TESTING (2ND ROUND)

Data Set: \...\MW-1D 2' SLUG OUT VISUAL.aqt
Date: 08/08/24 Time: 13:31:25

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-1D (VISUAL)
Test Date: July 30, 2024

AQUIFER DATA

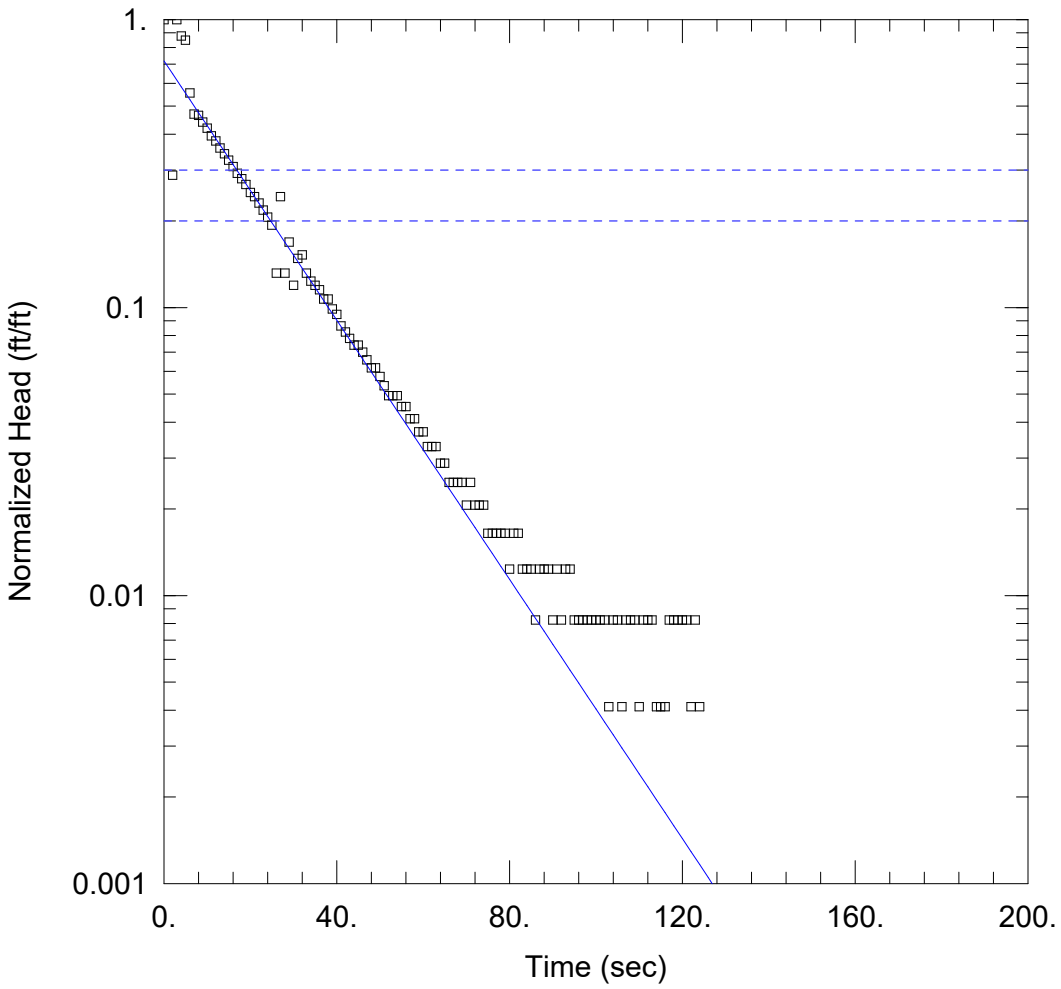
Saturated Thickness: 27. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-1D - 2' Slug OUT (VISUAL))

Initial Displacement: 2.23 ft
Total Well Penetration Depth: 27. ft
Casing Radius: 0.083 ft
Static Water Column Height: 27. ft
Screen Length: 9. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.007329 cm/sec
y0 = 0.932 ft



JULY, 2024 SLUG TESTING (2ND ROUND)

Data Set: \...\MW-1D 4' SLUG IN VISUAL.aqt
Date: 08/08/24 Time: 13:31:11

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-1D (VISUAL)
Test Date: July 30, 2024

AQUIFER DATA

Saturated Thickness: 27. ft Anisotropy Ratio (Kz/Kr): 1.

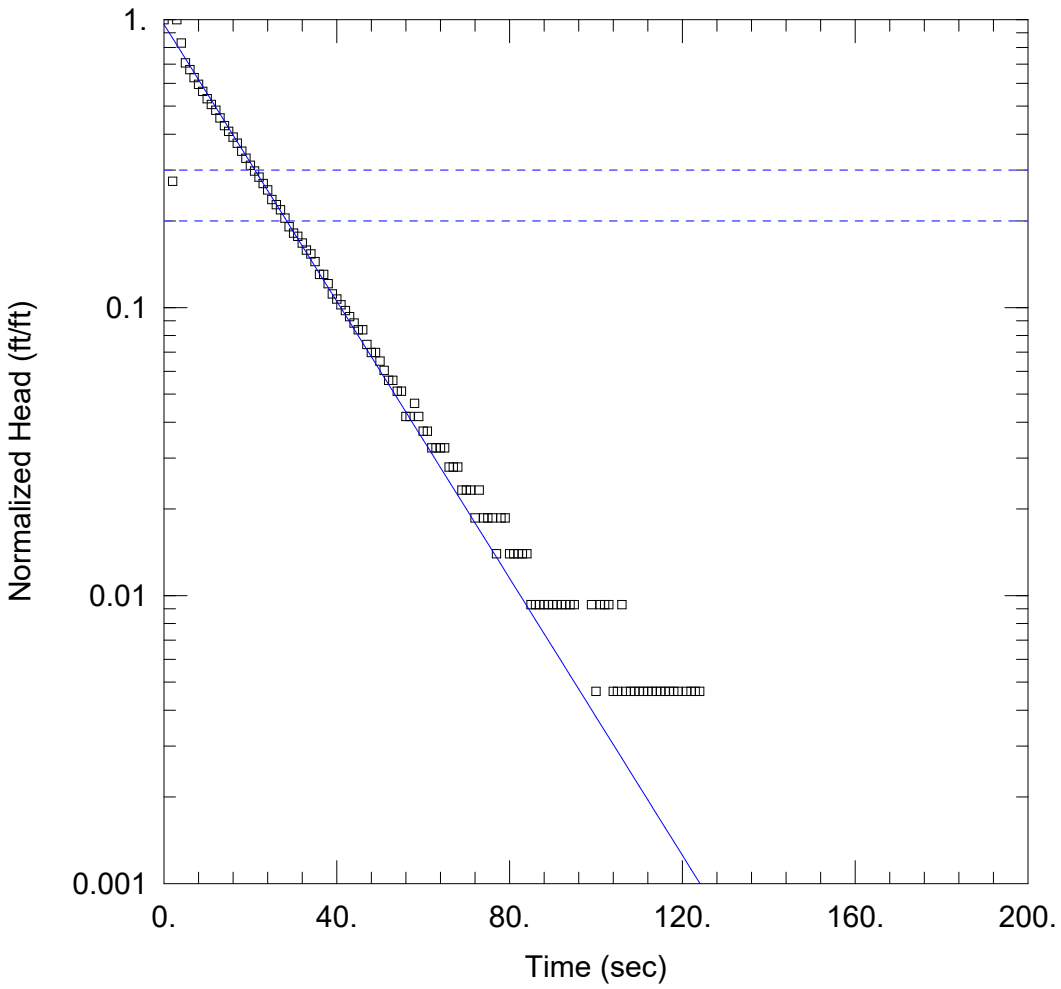
WELL DATA (MW-1D - 4' Slug IN (VISUAL))

Initial Displacement: 2.43 ft
Total Well Penetration Depth: 27. ft
Casing Radius: 0.083 ft
Static Water Column Height: 27. ft
Screen Length: 9. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.007011 cm/sec y0 = 1.745 ft



JULY, 2024 SLUG TESTING (2ND ROUND)

Data Set: \...\MW-1D 4' SLUG OUT VISUAL.aqt
Date: 08/08/24 Time: 13:30:56

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-1D (VISUAL)
Test Date: July 30, 2024

AQUIFER DATA

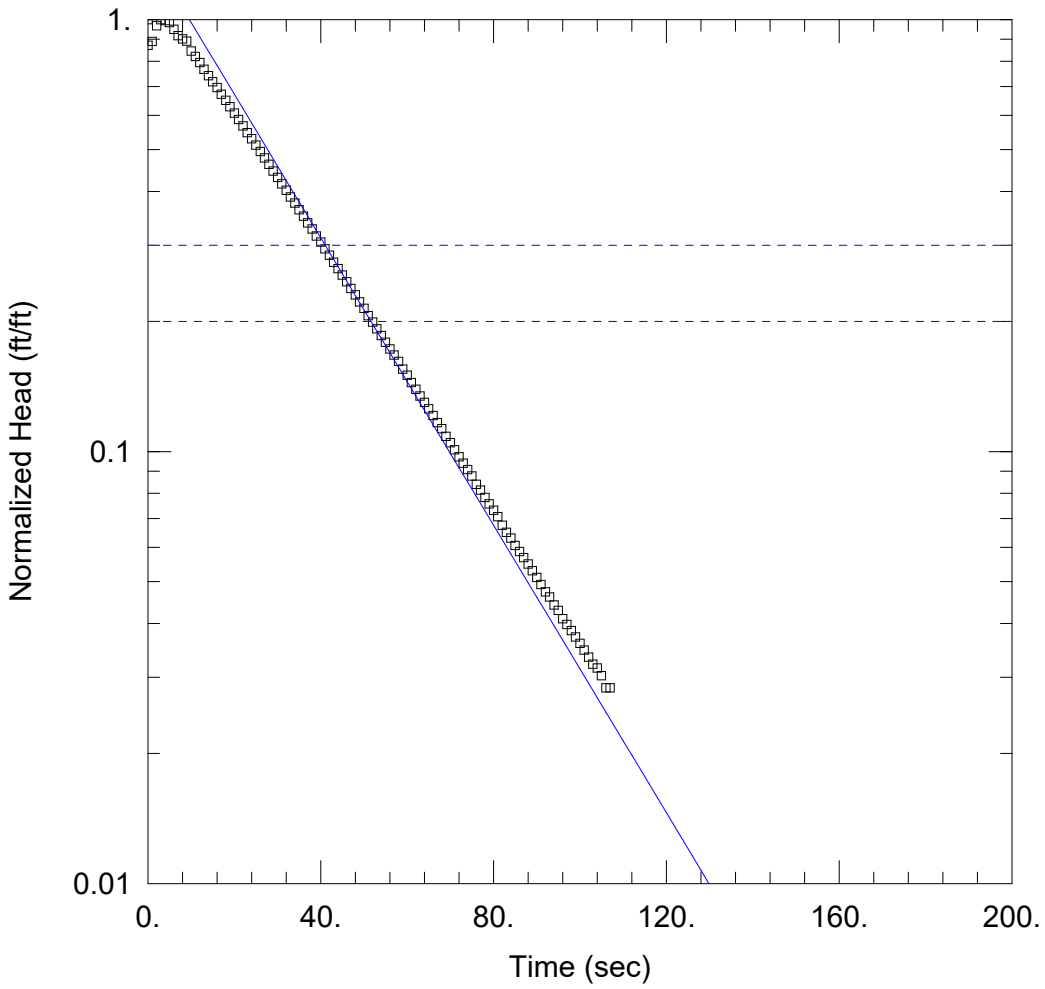
Saturated Thickness: 27. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-1D - 4' Slug OUT (VISUAL))

Initial Displacement: 2.15 ft
Total Well Penetration Depth: 27. ft
Casing Radius: 0.083 ft
Static Water Column Height: 27. ft
Screen Length: 9. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.007491 cm/sec
y0 = 2.069 ft



JULY, 2024 SLUG TESTING (2ND ROUND)

Data Set: \...\MW-1D 5 Gallon VISUAL.aqt
Date: 08/08/24 Time: 13:32:06

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-1D (VISUAL)
Test Date: July 30, 2024

AQUIFER DATA

Saturated Thickness: 27. ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-1D - 5 Gallon (VISUAL))

Initial Displacement: 15.85 ft
Total Well Penetration Depth: 27. ft
Casing Radius: 0.083 ft
Static Water Column Height: 27. ft
Screen Length: 9. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

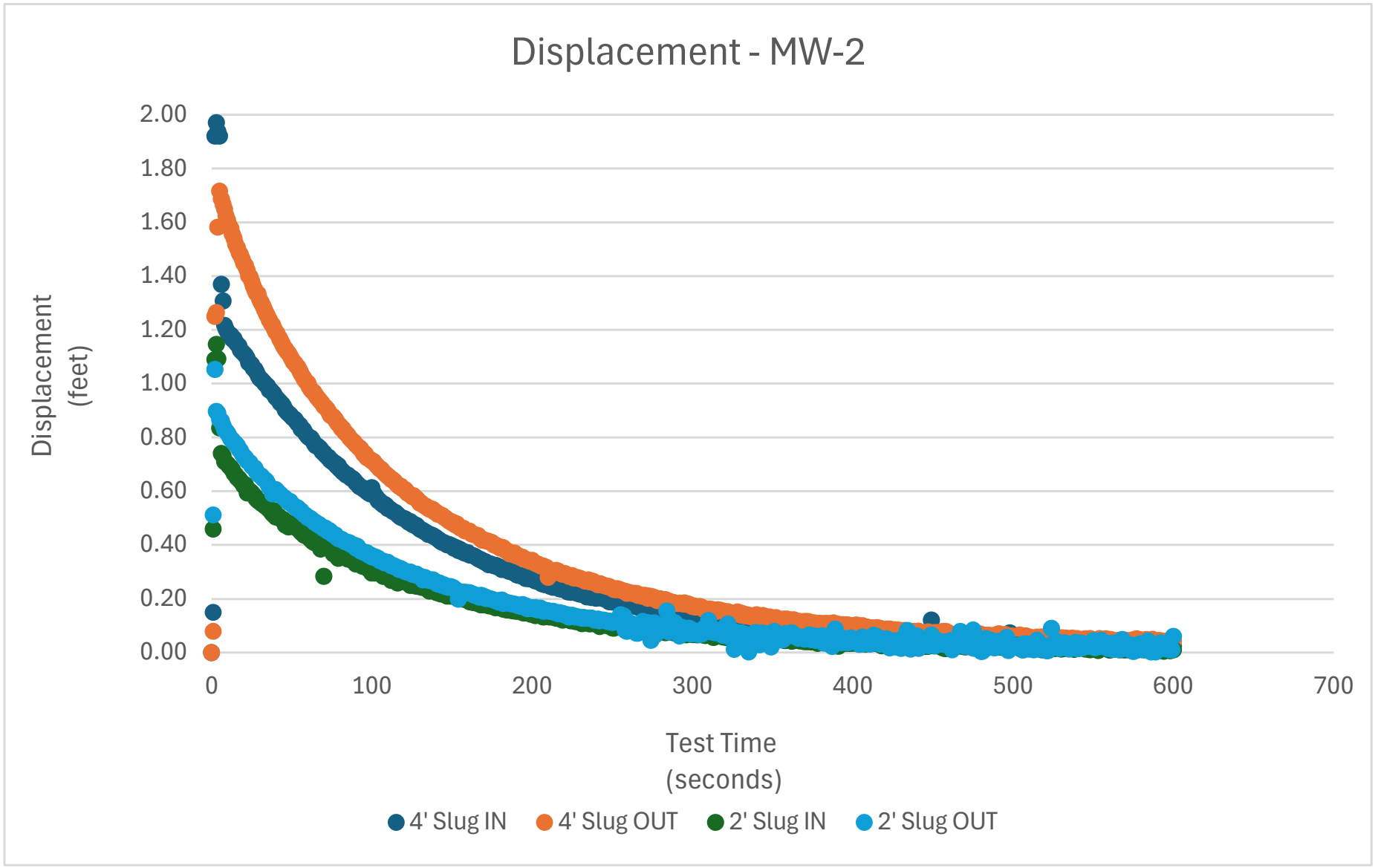
SOLUTION

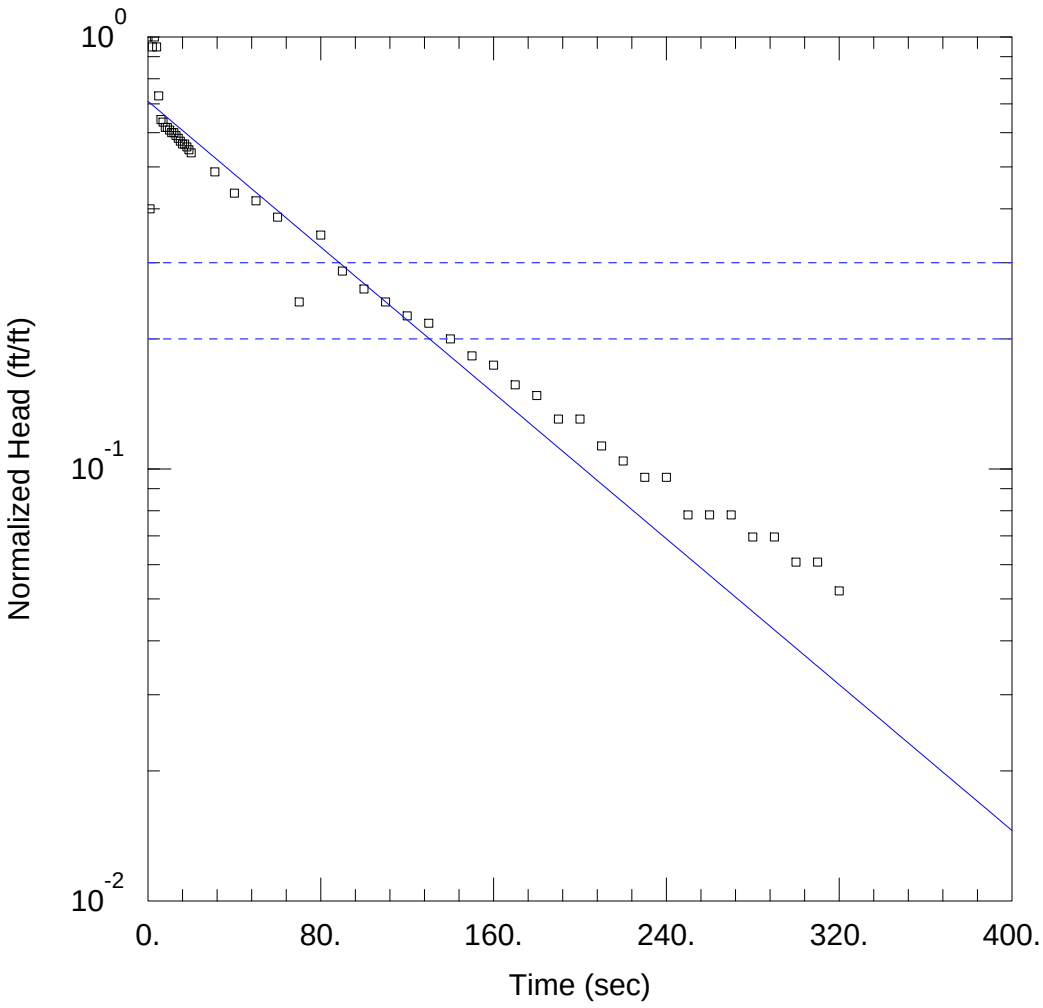
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.00518 cm/sec
y0 = 22.88 ft

Summary of Hydraulic Conductivity Testing Results
June-July, 2024
Warburton Dry Cleaners Site
321 Warburton Avenue
Yonkers, New York

WELL MW-2

(June, 2024)


Displacement - MW-2
Displacement (feet)
2.00
1.80
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
0
100
200
300
400
500
600
700
Test Time (seconds)
4' Slug IN
4' Slug OUT
2' Slug IN
2' Slug OUT



JUNE, 2024 SLUG TESTING

Data Set: C:\...\MW-2 2' SLUG IN.aqt
Date: 06/27/24 Time: 10:32:13

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-2
Test Date: June 20-24, 2024

AQUIFER DATA

Saturated Thickness: 16.39 ft Anisotropy Ratio (Kz/Kr): 1.

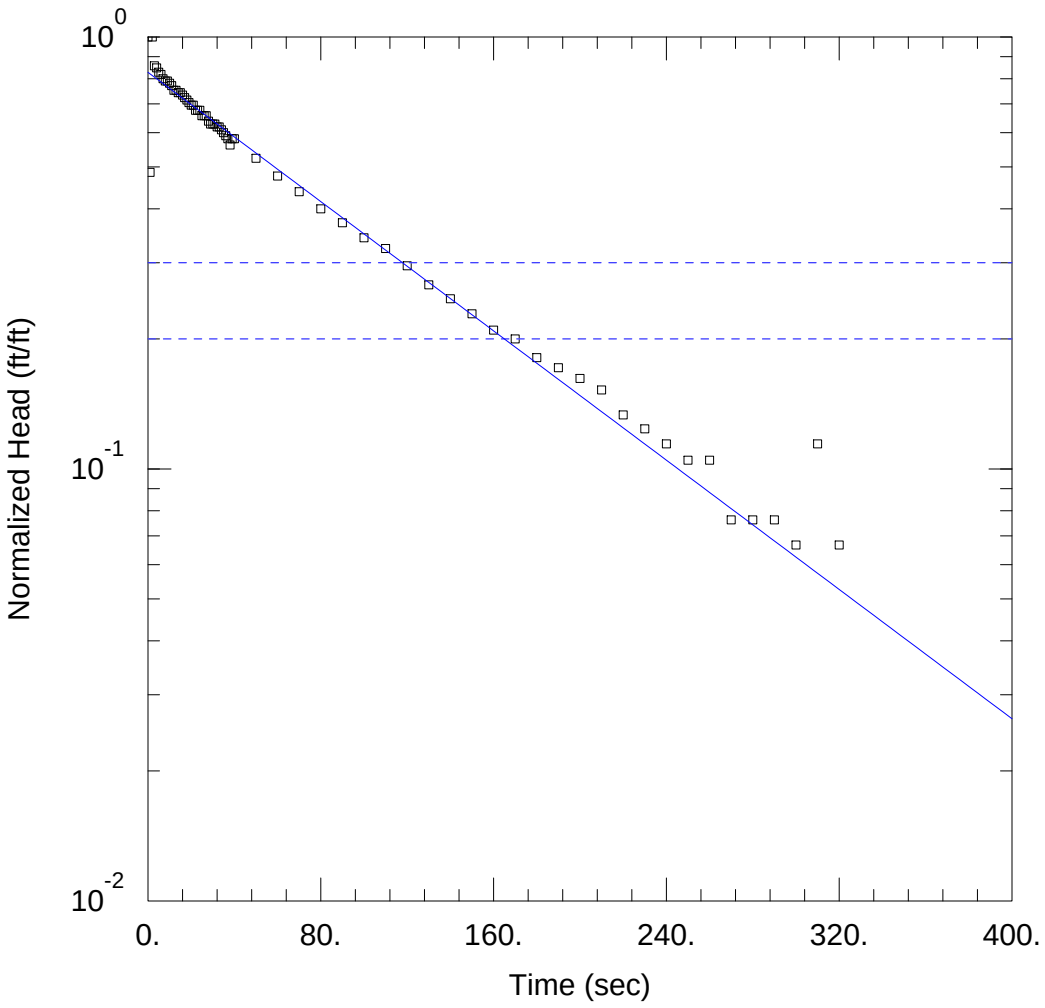
WELL DATA (MW-2 - 2' Slug IN)

Initial Displacement: 1.15 ft
Total Well Penetration Depth: 16.39 ft
Casing Radius: 0.083 ft
Static Water Column Height: 16.39 ft
Screen Length: 16.39 ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0006836 cm/sec y0 = 0.816 ft



JUNE, 2024 SLUG TESTING

Data Set: C:\...\MW-2 2' SLUG OUT.aqt
Date: 06/27/24 Time: 10:37:04

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-2
Test Date: June 20-24, 2024

AQUIFER DATA

Saturated Thickness: 16.39 ft Anisotropy Ratio (Kz/Kr): 1.

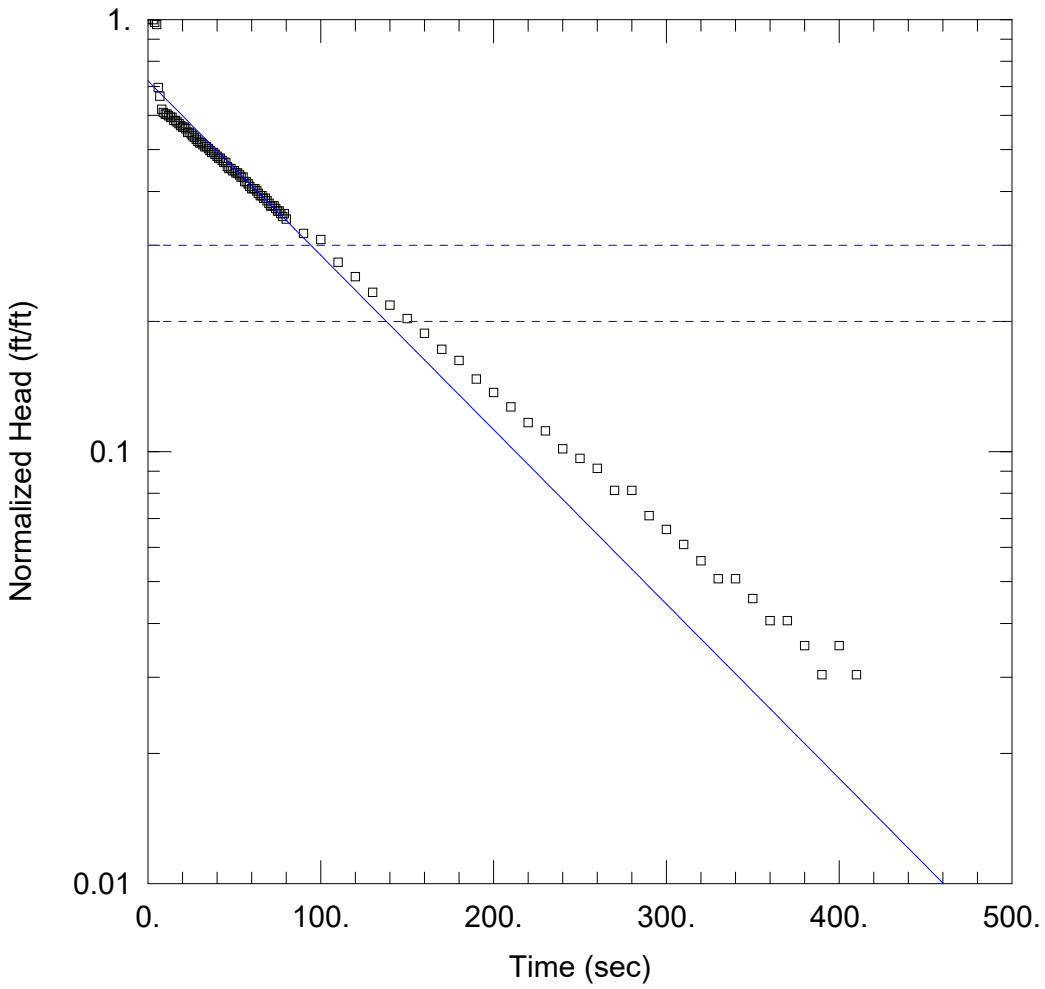
WELL DATA (MW-2 - 2' Slug OUT)

Initial Displacement: 1.05 ft
Total Well Penetration Depth: 16.39 ft
Casing Radius: 0.083 ft
Static Water Column Height: 16.39 ft
Screen Length: 16.39 ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.000606 cm/sec y0 = 0.8695 ft



MW-2 4.0-SLUG - IN

Data Set: \...\MW-2 4' SLUG IN.aqt
Date: 08/08/24 Time: 10:01:53

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-2
Test Date: June 20-24, 2024

AQUIFER DATA

Saturated Thickness: 16.39 ft Anisotropy Ratio (Kz/Kr): 1.

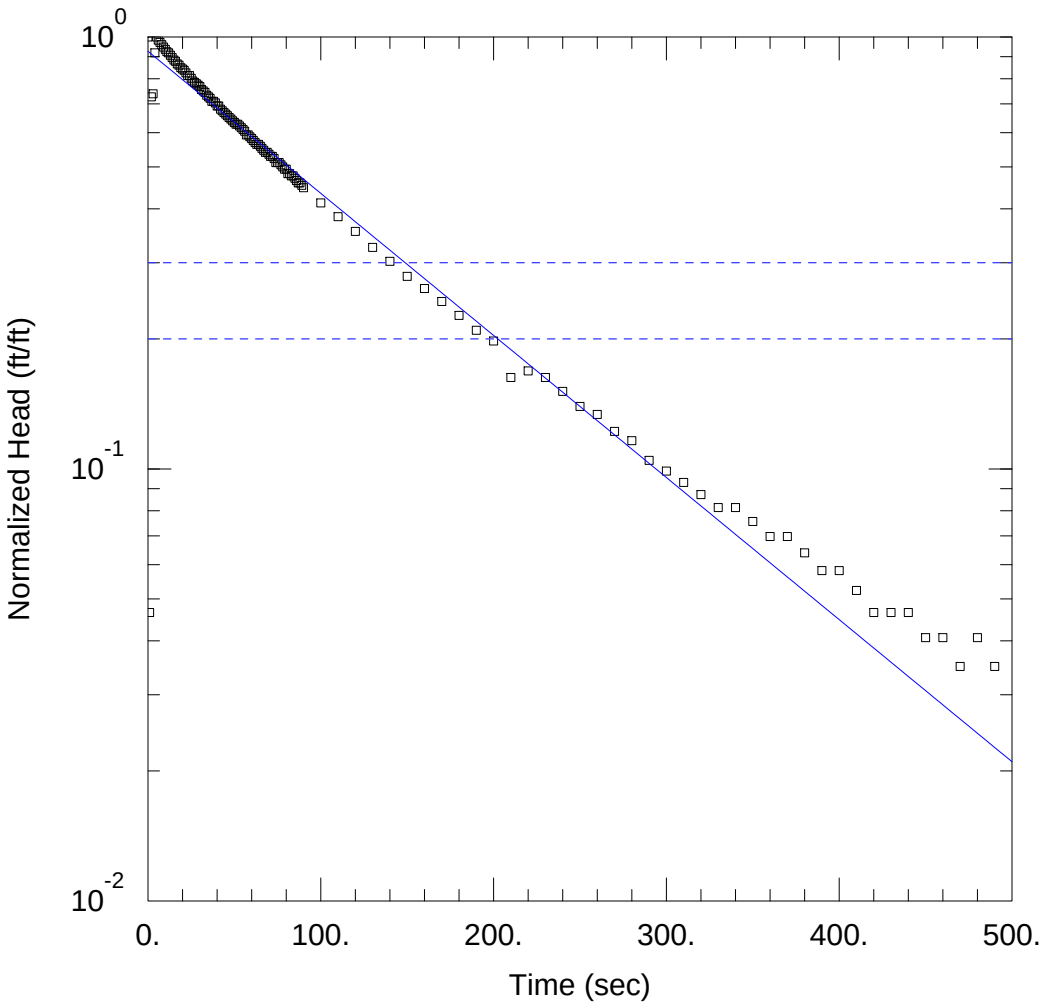
WELL DATA (MW-2 (4.0' SLUG IN))

Initial Displacement: 1.97 ft
Total Well Penetration Depth: 16.39 ft
Casing Radius: 0.083 ft
Static Water Column Height: 16.39 ft
Screen Length: 16.39 ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0006539 cm/sec y0 = 1.42 ft



JUNE, 2024 SLUG TESTING

Data Set:
Date: 06/27/24 Time: 10:25:43

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-2
Test Date: June 20-24, 2024

AQUIFER DATA

Saturated Thickness: 16.39 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-2 - 4' Slug OUT)

Initial Displacement: 1.72 ft
Total Well Penetration Depth: 16.39 ft
Casing Radius: 0.083 ft
Static Water Column Height: 16.39 ft
Screen Length: 16.39 ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

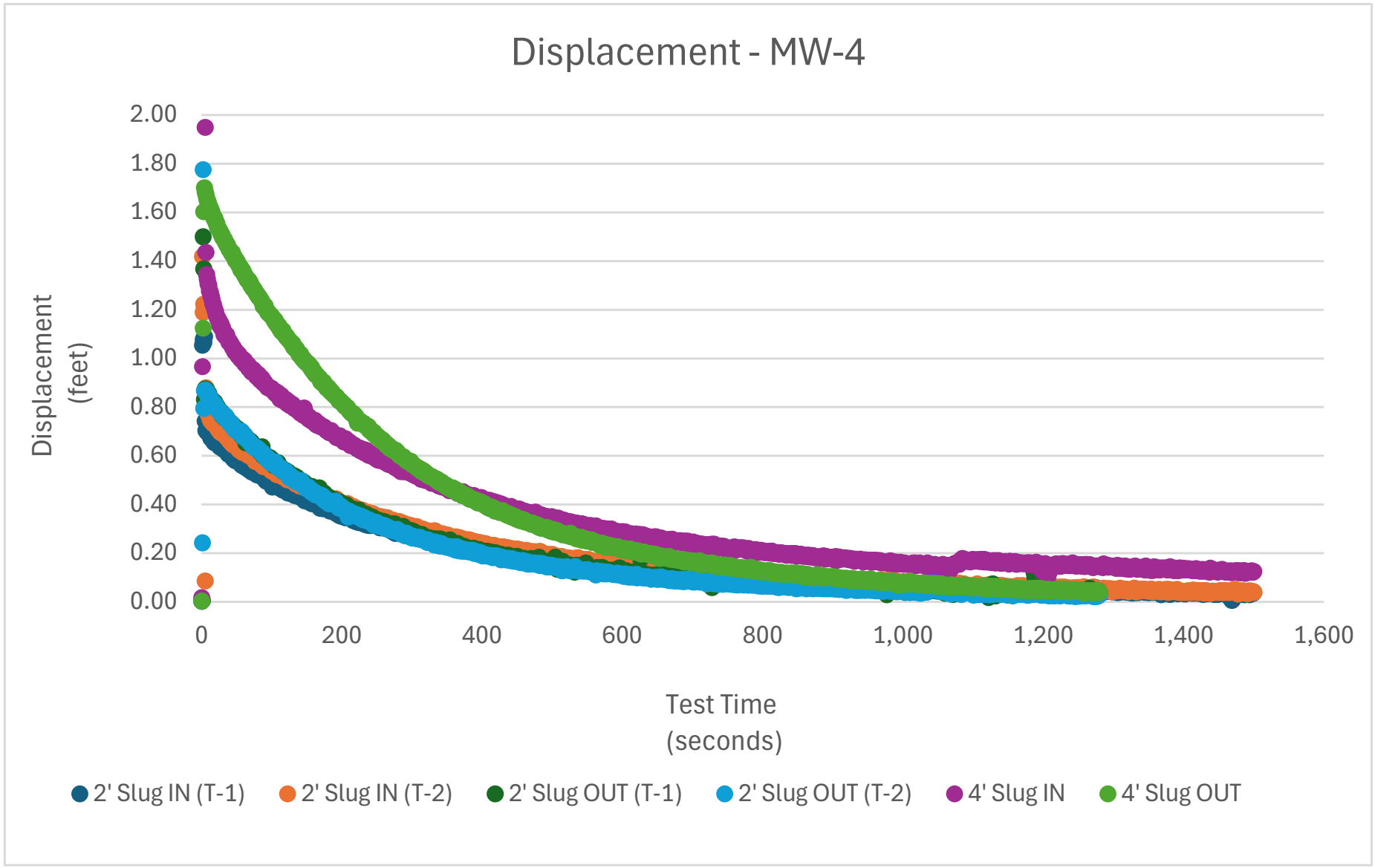
SOLUTION

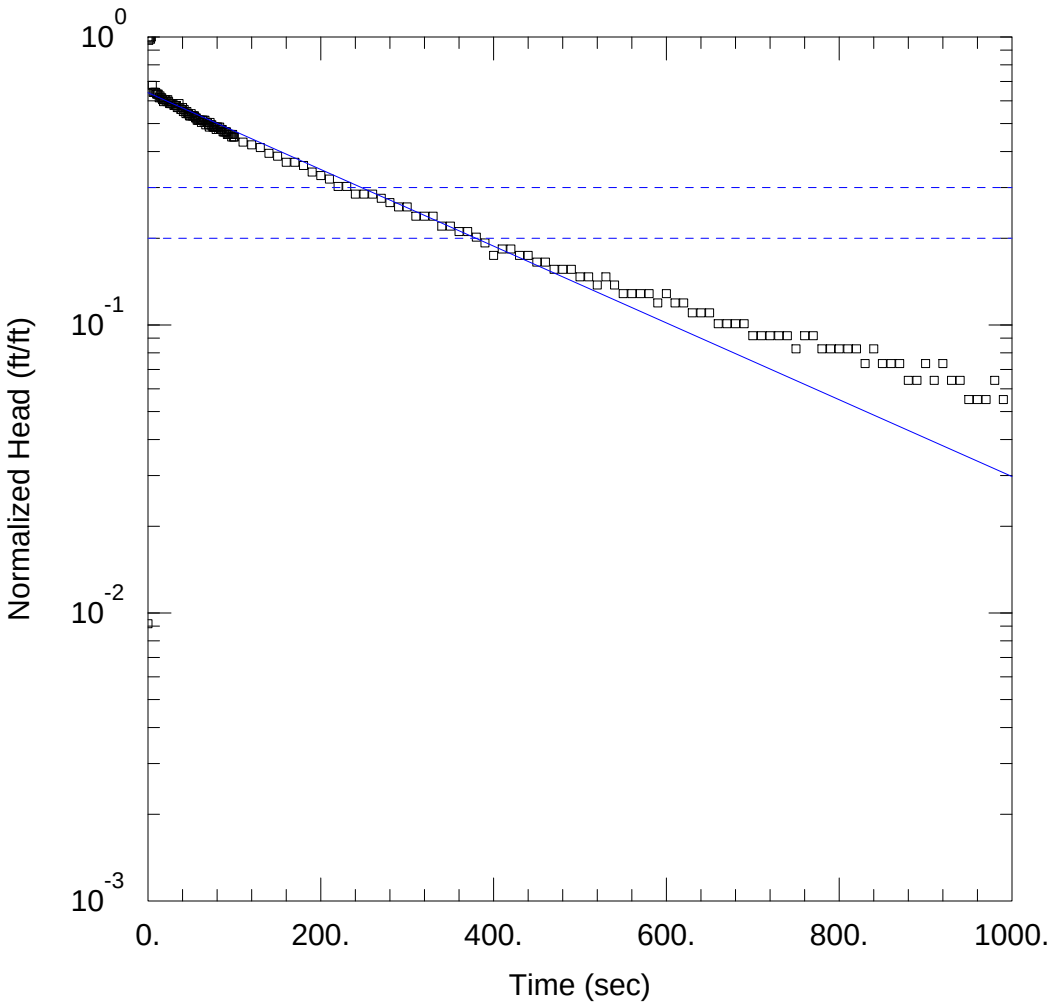
Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.0005329 cm/sec
y0 = 1.593 ft

Summary of Hydraulic Conductivity Testing Results
June-July, 2024
Warburton Dry Cleaners Site
321 Warburton Avenue
Yonkers, New York

WELL MW-4

(June, 2024)


Displacement - MW-4
Displacement (feet)
2.00
1.80
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
0
200
400
600
800
1,000
1,200
1,400
1,600
Test Time (seconds)
2' Slug IN (T-1)
2' Slug IN (T-2)
2' Slug OUT (T-1)
2' Slug OUT (T-2)
4' Slug IN
4' Slug OUT



JUNE, 2024 SLUG TESTING

Data Set: C:\...\MW-4 2' SLUG IN (T-1).aqt
Date: 06/27/24 Time: 11:46:35

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-4
Test Date: June 20-24, 2024

AQUIFER DATA

Saturated Thickness: 16.73 ft Anisotropy Ratio (Kz/Kr): 1.

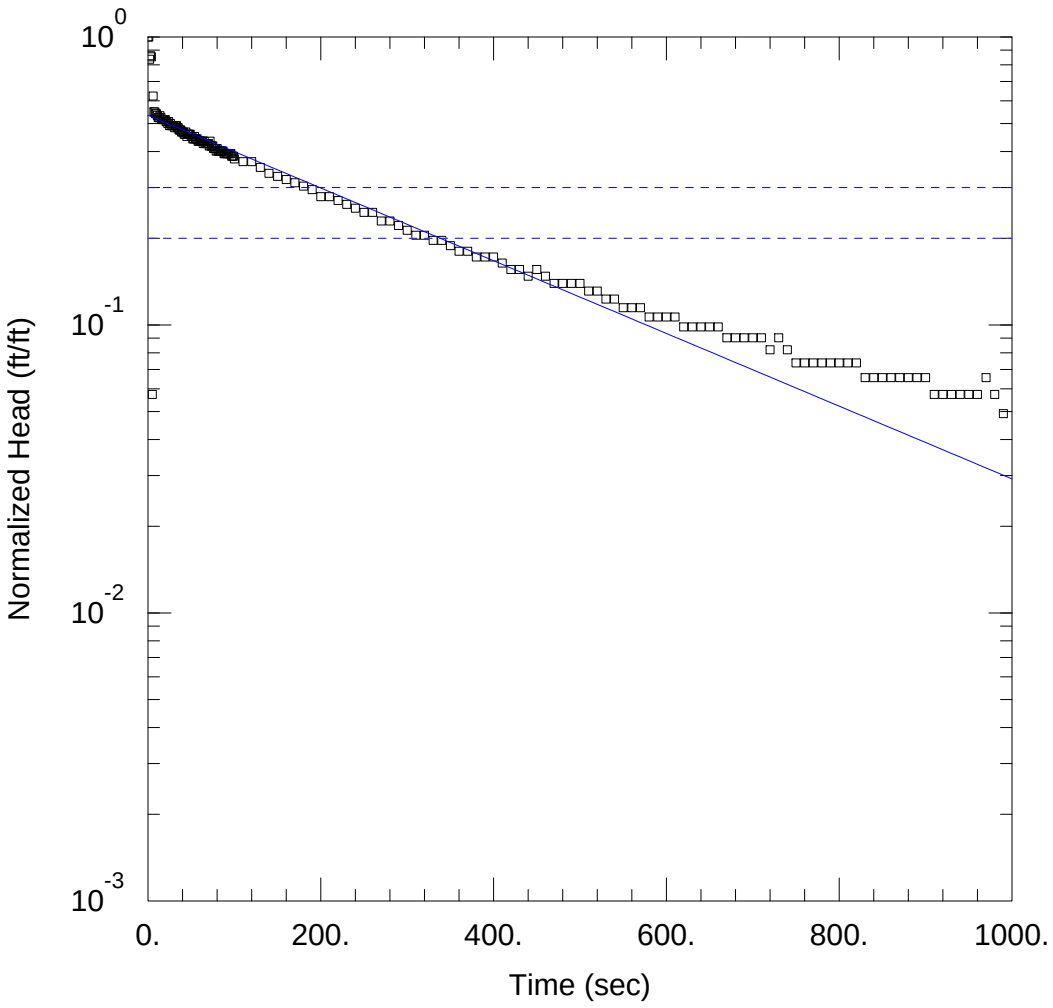
WELL DATA (MW-4 - 2' Slug IN (T-1))

Initial Displacement: 1.09 ft
Total Well Penetration Depth: 16.73 ft
Casing Radius: 0.083 ft
Static Water Column Height: 16.73 ft
Screen Length: 16.73 ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0002126 cm/sec y0 = 0.6982 ft



JUNE, 2024 SLUG TESTING

Data Set: C:\...\MW-4 2' SLUG IN (T-2).aqt
Date: 06/27/24 Time: 11:45:45

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-4
Test Date: June 20-24, 2024

AQUIFER DATA

Saturated Thickness: 16.73 ft Anisotropy Ratio (Kz/Kr): 1.

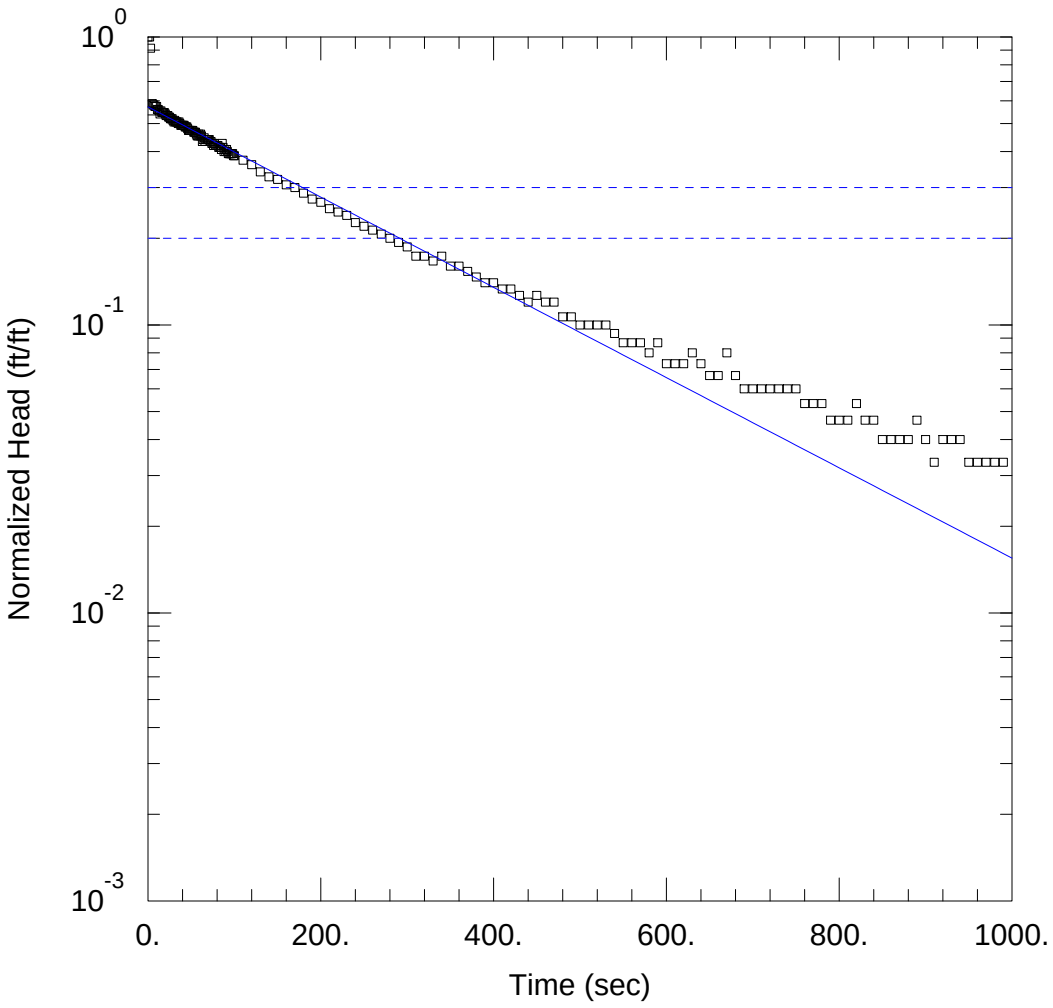
WELL DATA (MW-4 - 2' Slug IN (T-2))

Initial Displacement: 1.22 ft
Total Well Penetration Depth: 16.73 ft
Casing Radius: 0.083 ft
Static Water Column Height: 16.73 ft
Screen Length: 16.73 ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0002014 cm/sec y0 = 0.6519 ft



JUNE, 2024 SLUG TESTING

Data Set: C:\...\MW-4 2' SLUG OUT (T-1).aqt
Date: 06/27/24 Time: 11:52:51

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-4
Test Date: June 20-24, 2024

AQUIFER DATA

Saturated Thickness: 16.73 ft Anisotropy Ratio (Kz/Kr): 1.

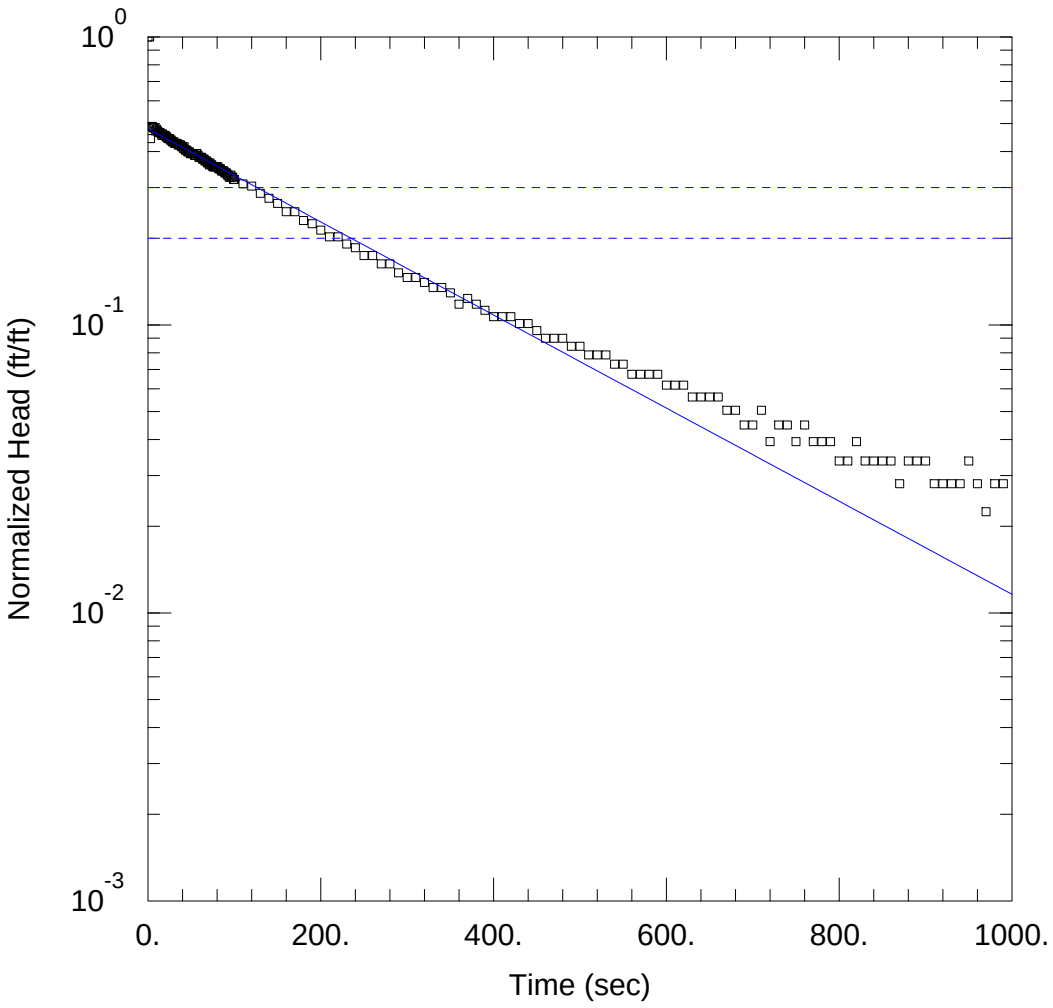
WELL DATA (MW-4 - 2' Slug OUT (T-1))

Initial Displacement: 1.5 ft
Total Well Penetration Depth: 16.73 ft
Casing Radius: 0.083 ft
Static Water Column Height: 16.73 ft
Screen Length: 16.73 ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0002499 cm/sec y0 = 0.8576 ft



JUNE, 2024 SLUG TESTING

Data Set: C:\...\MW-4 2' SLUG OUT (T-2).aqt
Date: 06/27/24 Time: 11:51:52

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-4
Test Date: June 20-24, 2024

AQUIFER DATA

Saturated Thickness: 16.73 ft Anisotropy Ratio (Kz/Kr): 1.

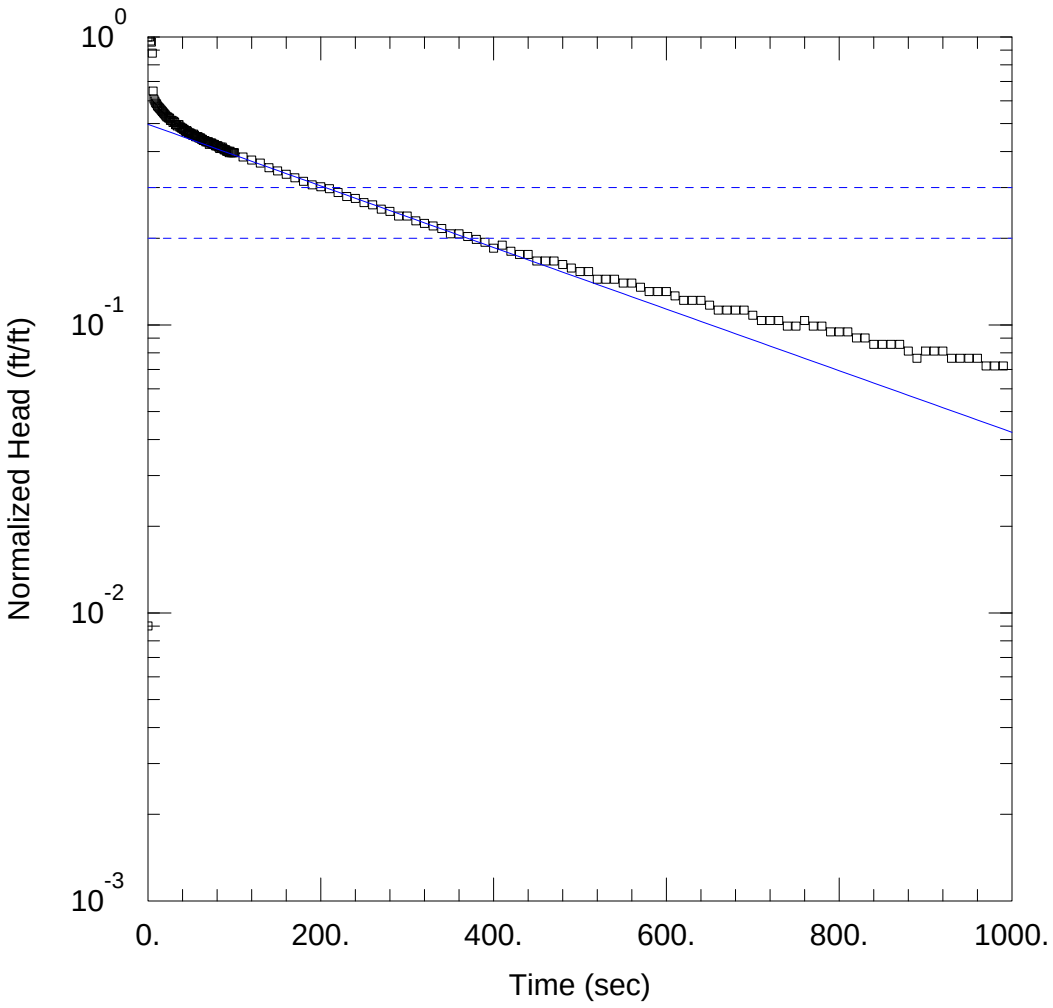
WELL DATA (MW-4 - 2' Slug OUT (T-2))

Initial Displacement: 1.78 ft
Total Well Penetration Depth: 16.73 ft
Casing Radius: 0.083 ft
Static Water Column Height: 16.73 ft
Screen Length: 16.73 ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0002579 cm/sec y0 = 0.8539 ft



JUNE, 2024 SLUG TESTING

Data Set: C:\...\MW-4 4' SLUG IN.aqt
Date: 06/27/24 Time: 11:48:40

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-4
Test Date: June 20-24, 2024

AQUIFER DATA

Saturated Thickness: 16.73 ft Anisotropy Ratio (Kz/Kr): 1.

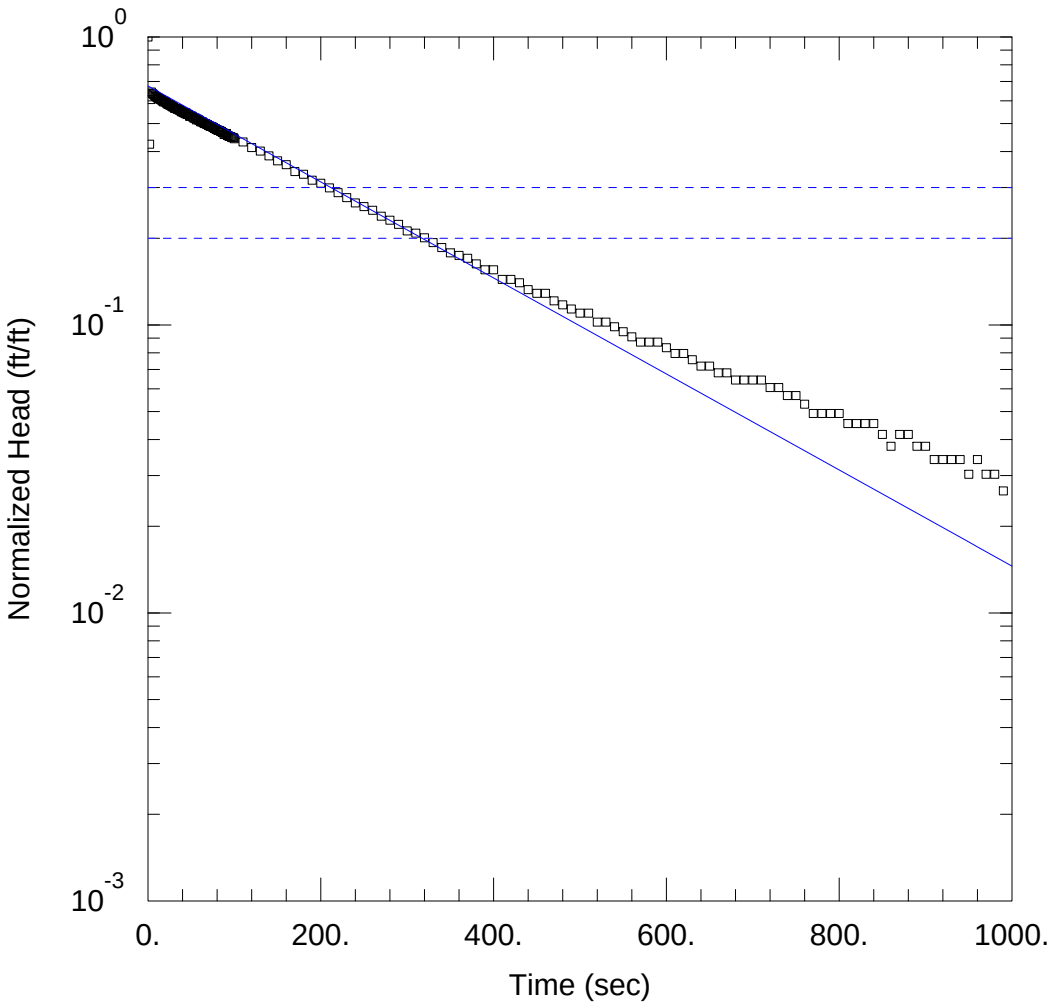
WELL DATA (MW-4 - 4' Slug IN)

Initial Displacement: 2.22 ft
Total Well Penetration Depth: 16.73 ft
Casing Radius: 0.083 ft
Static Water Column Height: 16.73 ft
Screen Length: 16.73 ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0001706 cm/sec y0 = 1.104 ft



JUNE, 2024 SLUG TESTING

Data Set: C:\...\MW-4 4' SLUG OUT.aqt
Date: 06/27/24 Time: 11:49:45

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-4
Test Date: June 20-24, 2024

AQUIFER DATA

Saturated Thickness: 16.73 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-4 - 4' Slug OUT)

Initial Displacement: 2.64 ft
Total Well Penetration Depth: 16.73 ft
Casing Radius: 0.083 ft
Static Water Column Height: 16.73 ft
Screen Length: 16.73 ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

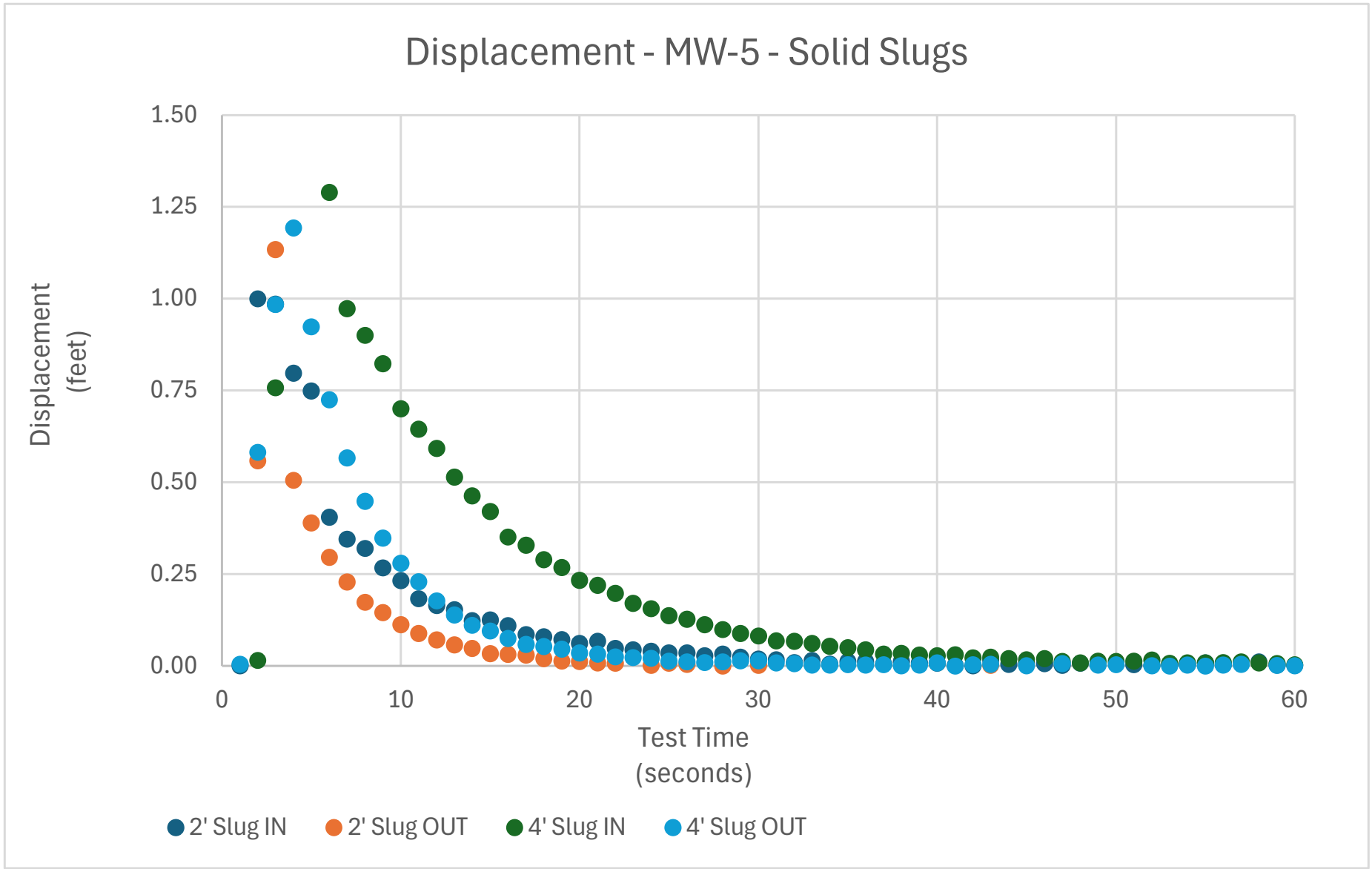
SOLUTION

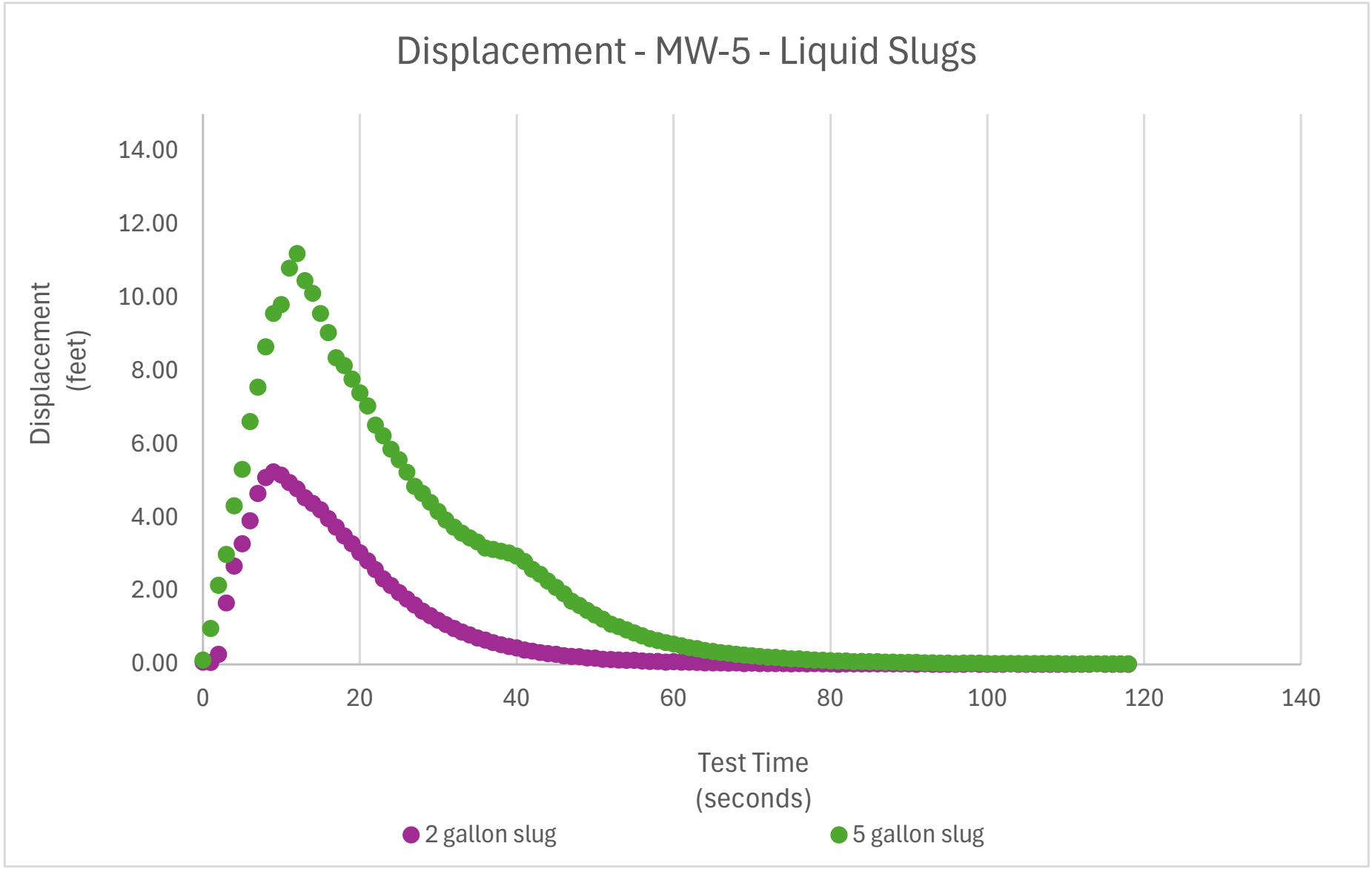
Aquifer Model: Unconfined Solution Method: Bouwer-Rice

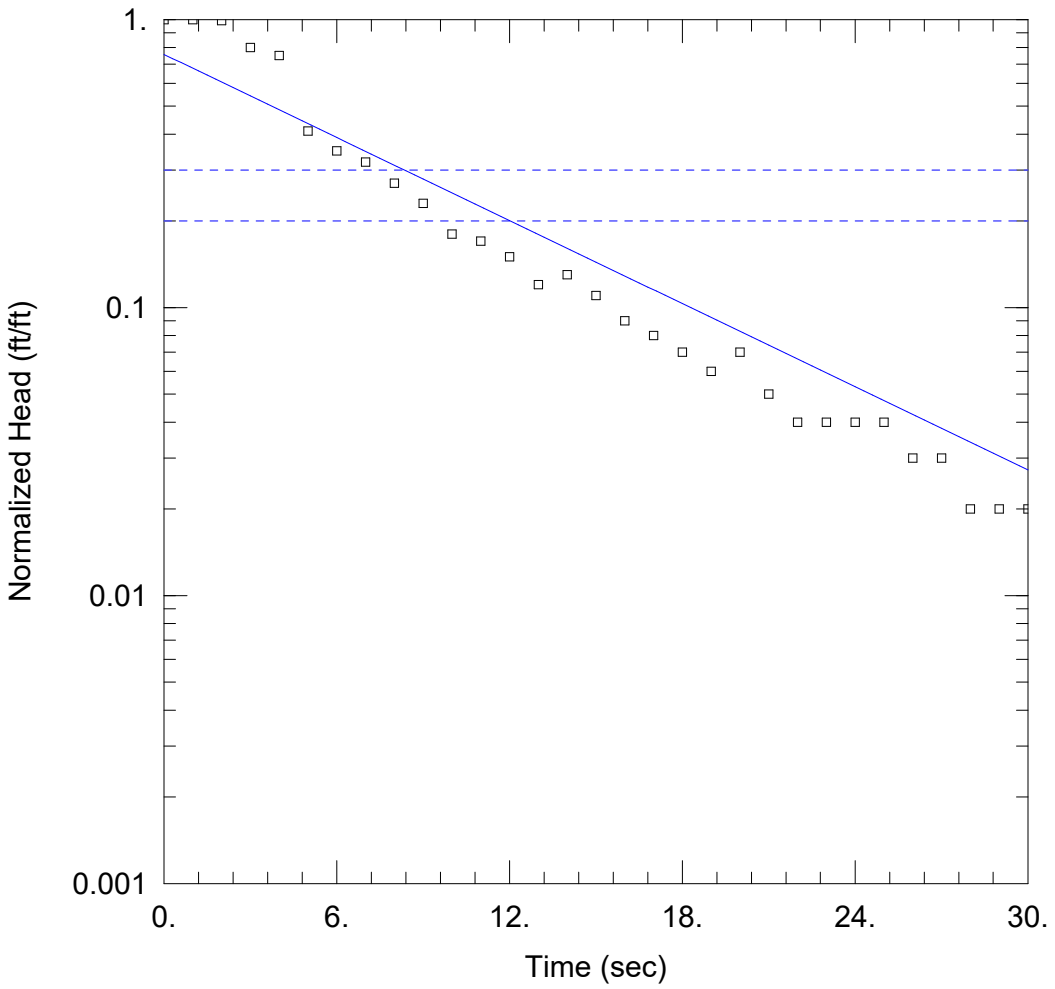
K = 0.0002659 cm/sec y0 = 1.784 ft

Summary of Hydraulic Conductivity Testing Results
June-July, 2024
Warburton Dry Cleaners Site
321 Warburton Avenue
Yonkers, New York

WELL MW-5
(July, 2024)


Displacement - MW-5 - Solid Slugs
Displacement (feet)
1.50
1.25
1.00
0.75
0.50
0.25
0.00
0
10
20
30
40
50
60
Test Time (seconds)
2' Slug IN
2' Slug OUT
4' Slug IN
4' Slug OUT


Displacement - MW-5 - Liquid Slugs
Displacement (feet)
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
0
20
40
60
80
100
120
140
Test Time (seconds)
2 gallon slug
5 gallon slug



JULY, 2024 SLUG TESTING (2ND ROUND)

Data Set: \...\MW-5 2' SLUG IN AUTO.aqt
Date: 08/08/24 Time: 13:25:08

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-5 (AUTO)
Test Date: July 30, 2024

AQUIFER DATA

Saturated Thickness: 38.55 ft Anisotropy Ratio (Kz/Kr): 1.

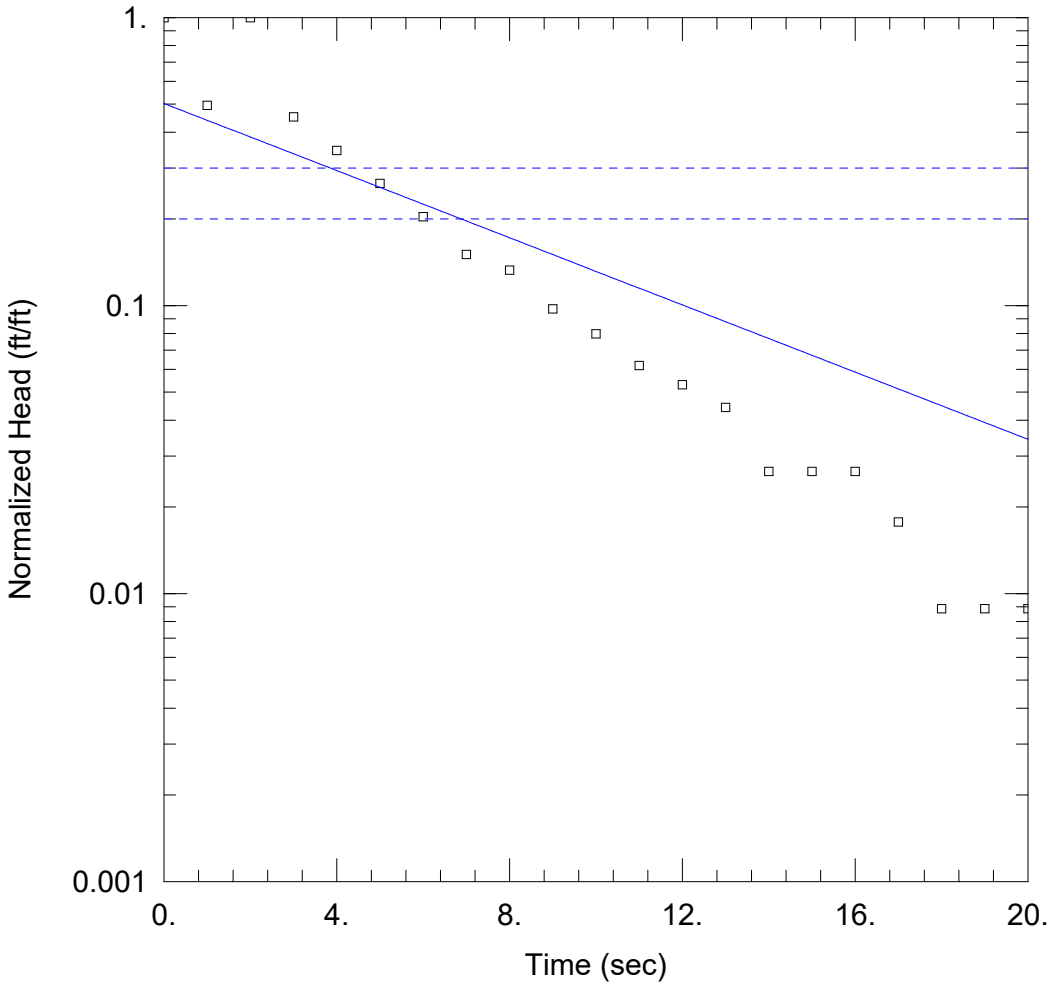
WELL DATA (MW-5 - 2' SLUG IN (AUTO))

Initial Displacement: 1. ft
Total Well Penetration Depth: 38.55 ft
Casing Radius: 0.083 ft
Static Water Column Height: 38.55 ft
Screen Length: 15. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.009888 cm/sec y0 = 0.7566 ft



JULY, 2024 SLUG TESTING (2ND ROUND)

Data Set: \...\MW-5 2' SLUG OUT AUTO.aqt
Date: 08/08/24 Time: 13:24:49

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-5 (AUTO)
Test Date: July 30, 2024

AQUIFER DATA

Saturated Thickness: 38.55 ft Anisotropy Ratio (Kz/Kr): 1.

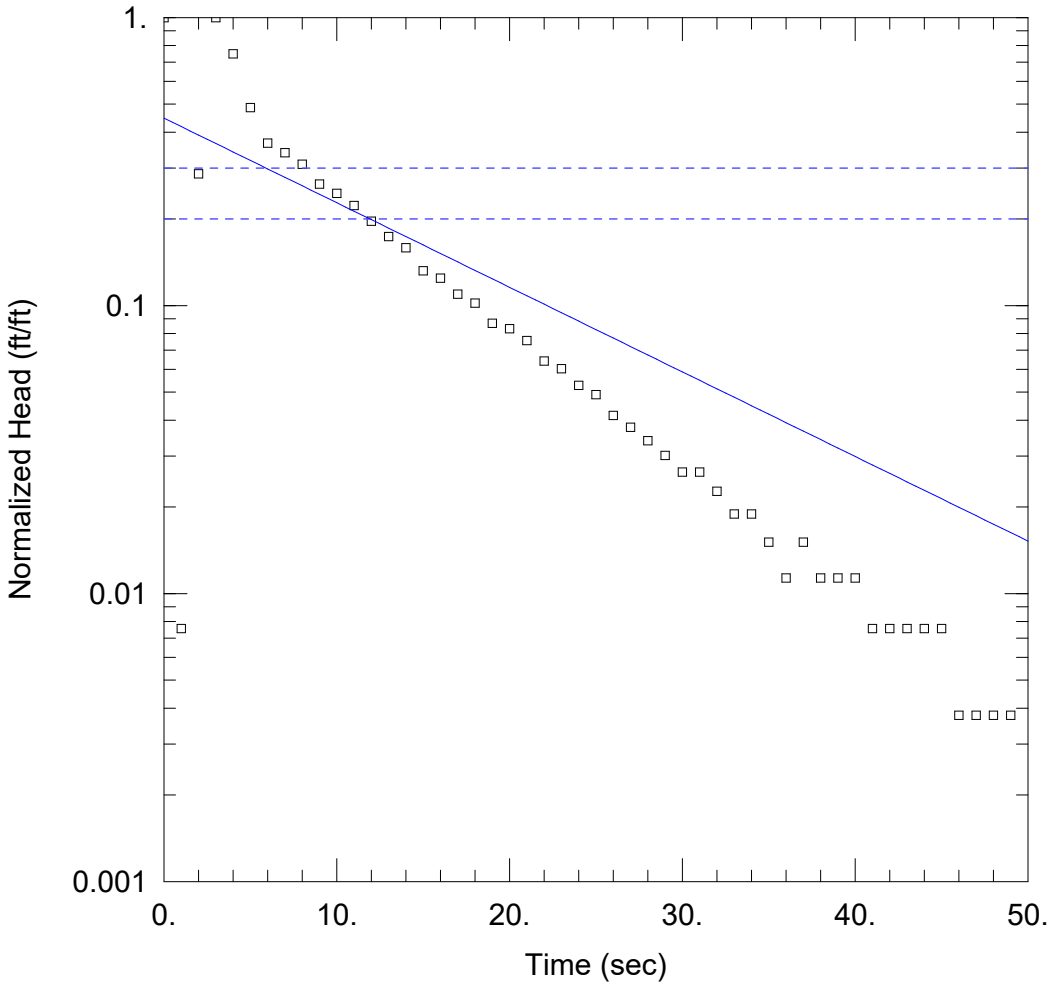
WELL DATA (MW-5 - 2' SLUG OUT (AUTO))

Initial Displacement: 1.13 ft
Total Well Penetration Depth: 38.55 ft
Casing Radius: 0.083 ft
Static Water Column Height: 38.55 ft
Screen Length: 15. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.01198 cm/sec y0 = 0.5684 ft



JULY, 2024 SLUG TESTING (2ND ROUND)

Data Set: \...\MW-5 4' SLUG IN AUTO.aqt
Date: 08/08/24 Time: 13:24:07

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-5 (AUTO)
Test Date: July 30, 2024

AQUIFER DATA

Saturated Thickness: 38.55 ft Anisotropy Ratio (Kz/Kr): 1.

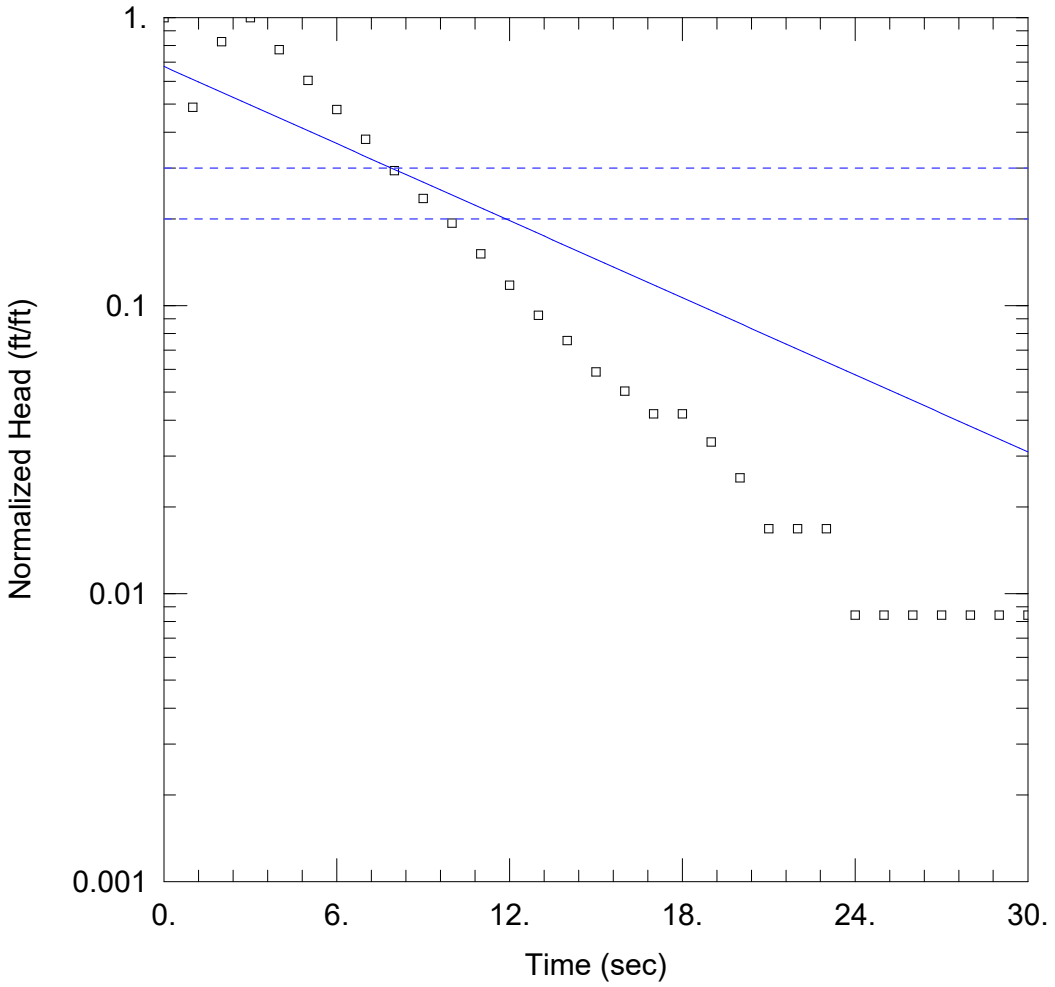
WELL DATA (MW-5 - 4' SLUG IN (AUTO))

Initial Displacement: 2.65 ft
Total Well Penetration Depth: 38.55 ft
Casing Radius: 0.083 ft
Static Water Column Height: 38.55 ft
Screen Length: 15. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.00604 cm/sec y0 = 1.185 ft



JULY, 2024 SLUG TESTING (2ND ROUND)

Data Set: \...\MW-5 4' SLUG OUT AUTO.aqt
Date: 08/08/24 Time: 13:23:48

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-5 (AUTO)
Test Date: July 30, 2024

AQUIFER DATA

Saturated Thickness: 38.55 ft Anisotropy Ratio (Kz/Kr): 1.

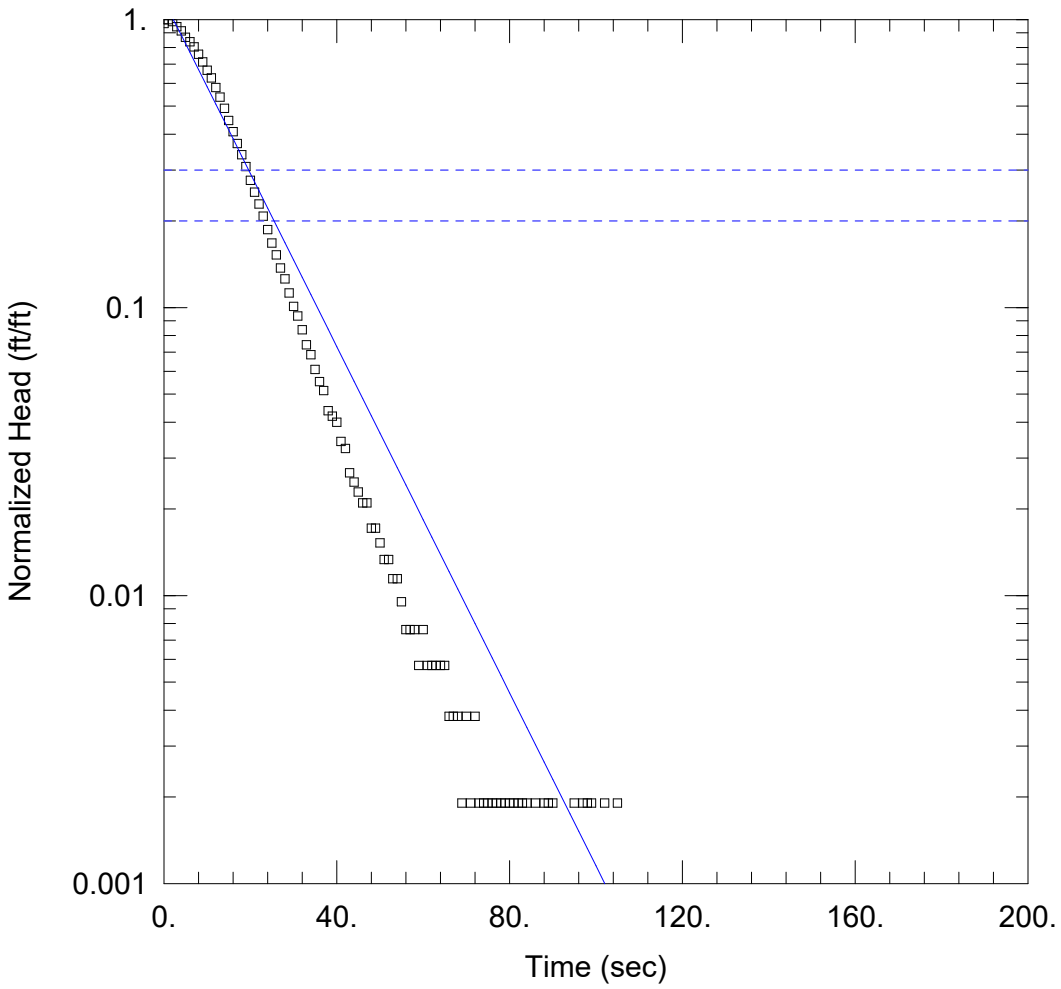
WELL DATA (MW-5 - 4' SLUG OUT (AUTO))

Initial Displacement: 1.19 ft
Total Well Penetration Depth: 38.55 ft
Casing Radius: 0.083 ft
Static Water Column Height: 38.55 ft
Screen Length: 15. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.009174 cm/sec y0 = 0.8046 ft



JULY, 2024 SLUG TESTING (2ND ROUND)

Data Set: \...\MW-5 2-Gallon AUTO.aqt
Date: 08/08/24 Time: 13:24:28

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-5 (AUTO)
Test Date: July 30, 2024

AQUIFER DATA

Saturated Thickness: 38.55 ft Anisotropy Ratio (Kz/Kr): 1.

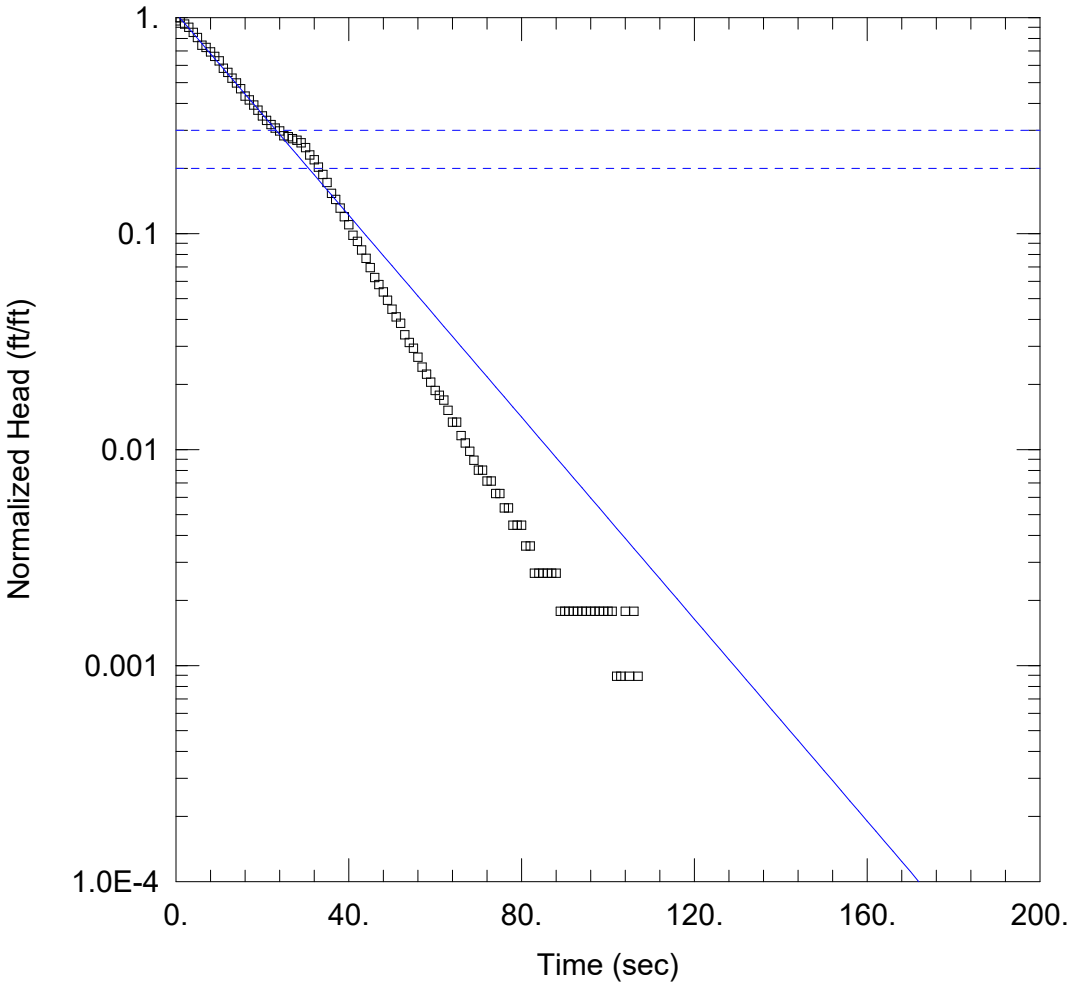
WELL DATA (MW-5 - 2 Gallon (AUTO))

Initial Displacement: 5.25 ft
Total Well Penetration Depth: 38.55 ft
Casing Radius: 0.083 ft
Static Water Column Height: 38.55 ft
Screen Length: 15. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.006181 cm/sec y0 = 6.119 ft



JULY, 2024 SLUG TESTING (2ND ROUND)

Data Set: \...\MW-5 5 Gallon AUTO.aqt
Date: 08/08/24 Time: 13:25:24

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-5 (AUTO)
Test Date: July 30, 2024

AQUIFER DATA

Saturated Thickness: 38.55 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-5 - 5 Gallon (AUTO))

Initial Displacement: 11.2 ft
Total Well Penetration Depth: 38.55 ft
Casing Radius: 0.083 ft
Static Water Column Height: 38.55 ft
Screen Length: 15. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

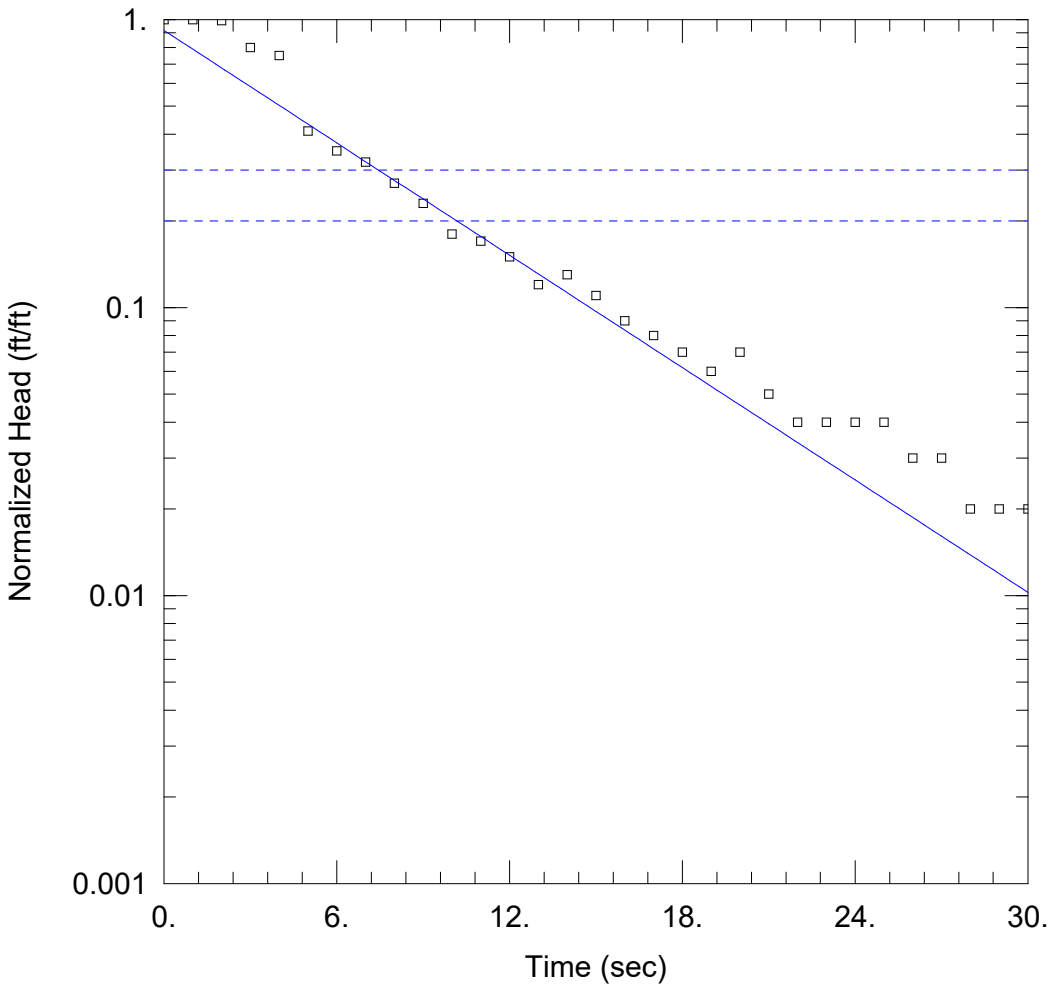
SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.004807 cm/sec y0 = 11.72 ft

Summary of Hydraulic Conductivity Testing Results
June-July, 2024
Warburton Dry Cleaners Site
321 Warburton Avenue
Yonkers, New York

AQTESOLVE - VISUAL SOLUTION



JULY, 2024 SLUG TESTING (2ND ROUND)

Data Set: \...\MW-5 2' SLUG IN VISUAL.aqt
Date: 08/08/24 Time: 13:33:36

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-5 (VISUAL)
Test Date: July 30, 2024

AQUIFER DATA

Saturated Thickness: 38.55 ft Anisotropy Ratio (Kz/Kr): 1.

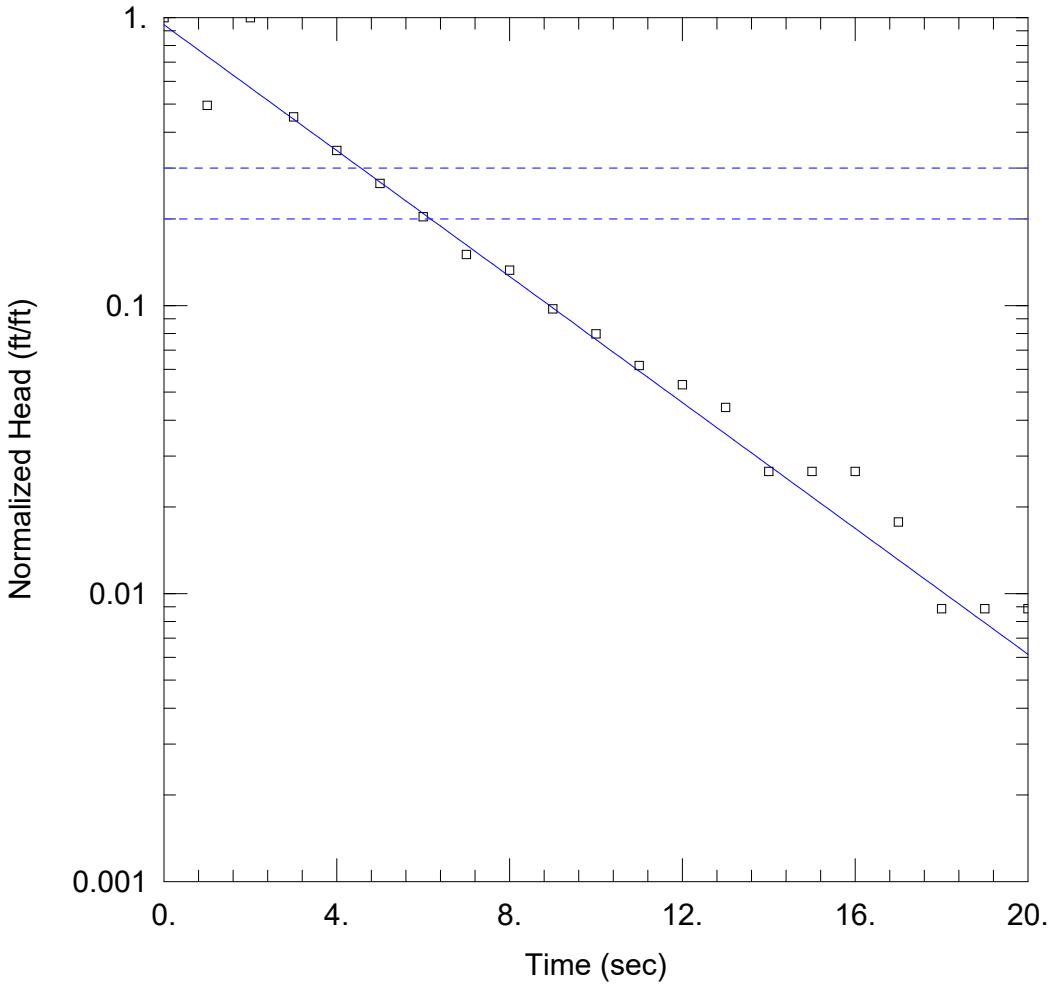
WELL DATA (MW-5 - 2' SLUG IN (VISUAL))

Initial Displacement: 1. ft
Total Well Penetration Depth: 38.55 ft
Casing Radius: 0.083 ft
Static Water Column Height: 38.55 ft
Screen Length: 15. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.01338 cm/sec y0 = 0.9164 ft



JULY, 2024 SLUG TESTING (2ND ROUND)

Data Set: \...\MW-5 2' SLUG OUT VISUAL.aqt
Date: 08/08/24 Time: 13:33:23

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-5 (VISUAL)
Test Date: July 30, 2024

AQUIFER DATA

Saturated Thickness: 38.55 ft Anisotropy Ratio (Kz/Kr): 1.

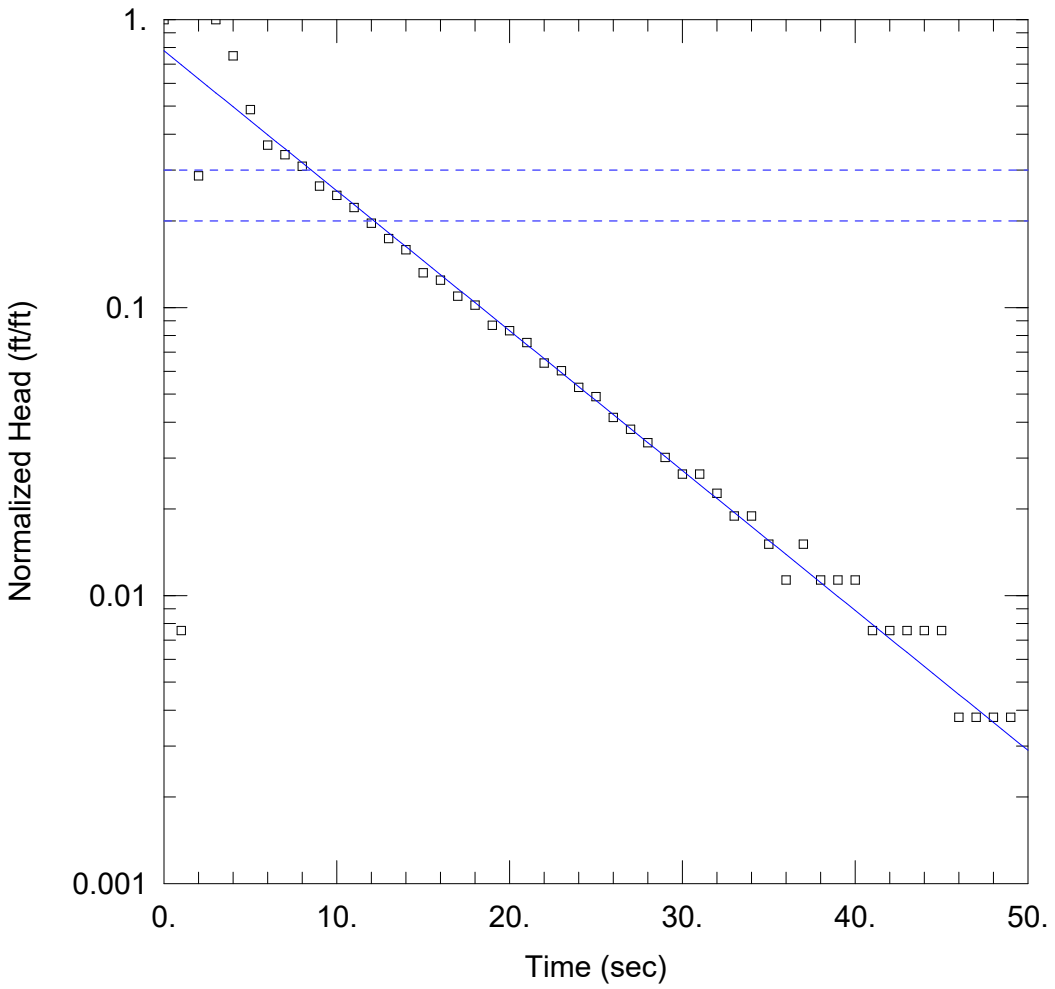
WELL DATA (MW-5 - 2' SLUG OUT (VISUAL))

Initial Displacement: 1.13 ft
Total Well Penetration Depth: 38.55 ft
Casing Radius: 0.083 ft
Static Water Column Height: 38.55 ft
Screen Length: 15. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.02247 cm/sec y0 = 1.066 ft



JULY, 2024 SLUG TESTING (2ND ROUND)

Data Set: \...\MW-5 4' SLUG IN VISUAL.aqt
Date: 08/08/24 Time: 13:32:53

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-5 (VISUAL)
Test Date: July 30, 2024

AQUIFER DATA

Saturated Thickness: 38.55 ft Anisotropy Ratio (Kz/Kr): 1.

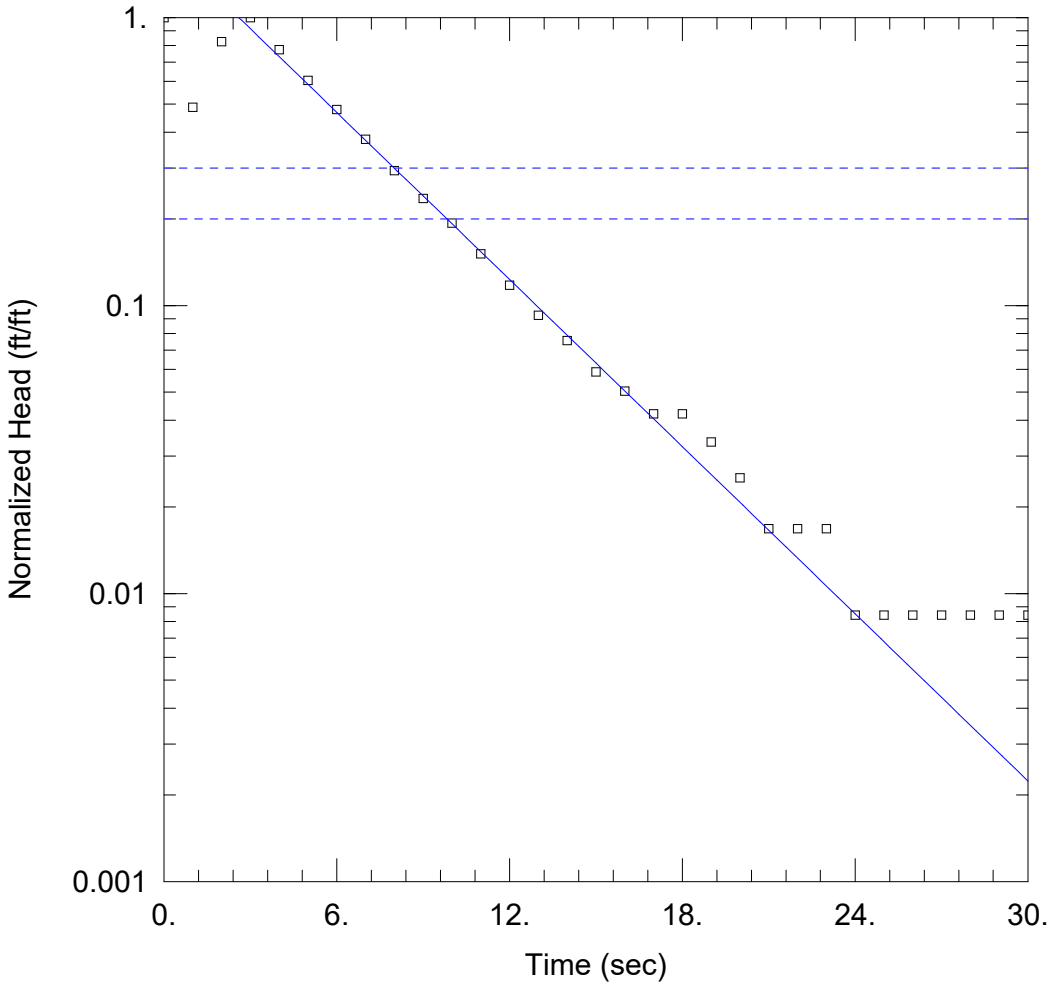
WELL DATA (MW-5 - 4' SLUG IN (VISUAL))

Initial Displacement: 2.65 ft
Total Well Penetration Depth: 38.55 ft
Casing Radius: 0.083 ft
Static Water Column Height: 38.55 ft
Screen Length: 15. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.009991 cm/sec y0 = 2.063 ft



JULY, 2024 SLUG TESTING (2ND ROUND)

Data Set: \...\MW-5 4' SLUG OUT VISUAL.aqt
Date: 08/08/24 Time: 13:32:36

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-5 (VISUAL)
Test Date: July 30, 2024

AQUIFER DATA

Saturated Thickness: 38.55 ft Anisotropy Ratio (Kz/Kr): 1.

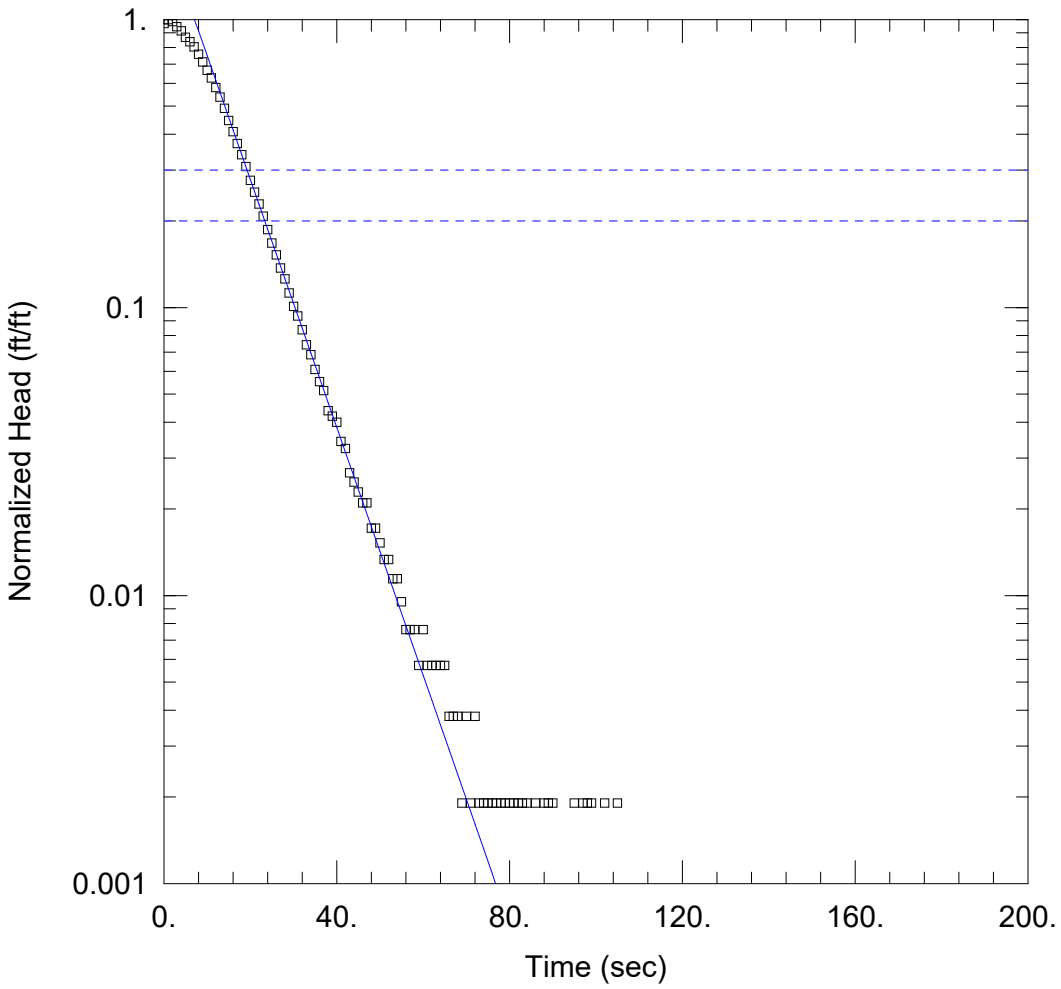
WELL DATA (MW-5 - 4' SLUG OUT (VISUAL))

Initial Displacement: 1.19 ft
Total Well Penetration Depth: 38.55 ft
Casing Radius: 0.083 ft
Static Water Column Height: 38.55 ft
Screen Length: 15. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0199 cm/sec y0 = 2.123 ft



JULY, 2024 SLUG TESTING (2ND ROUND)

Data Set: \...\MW-5 2-Gallon VISUAL.aqt
Date: 08/08/24 Time: 13:33:07

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-5 (VISUAL)
Test Date: July 30, 2024

AQUIFER DATA

Saturated Thickness: 38.55 ft Anisotropy Ratio (Kz/Kr): 1.

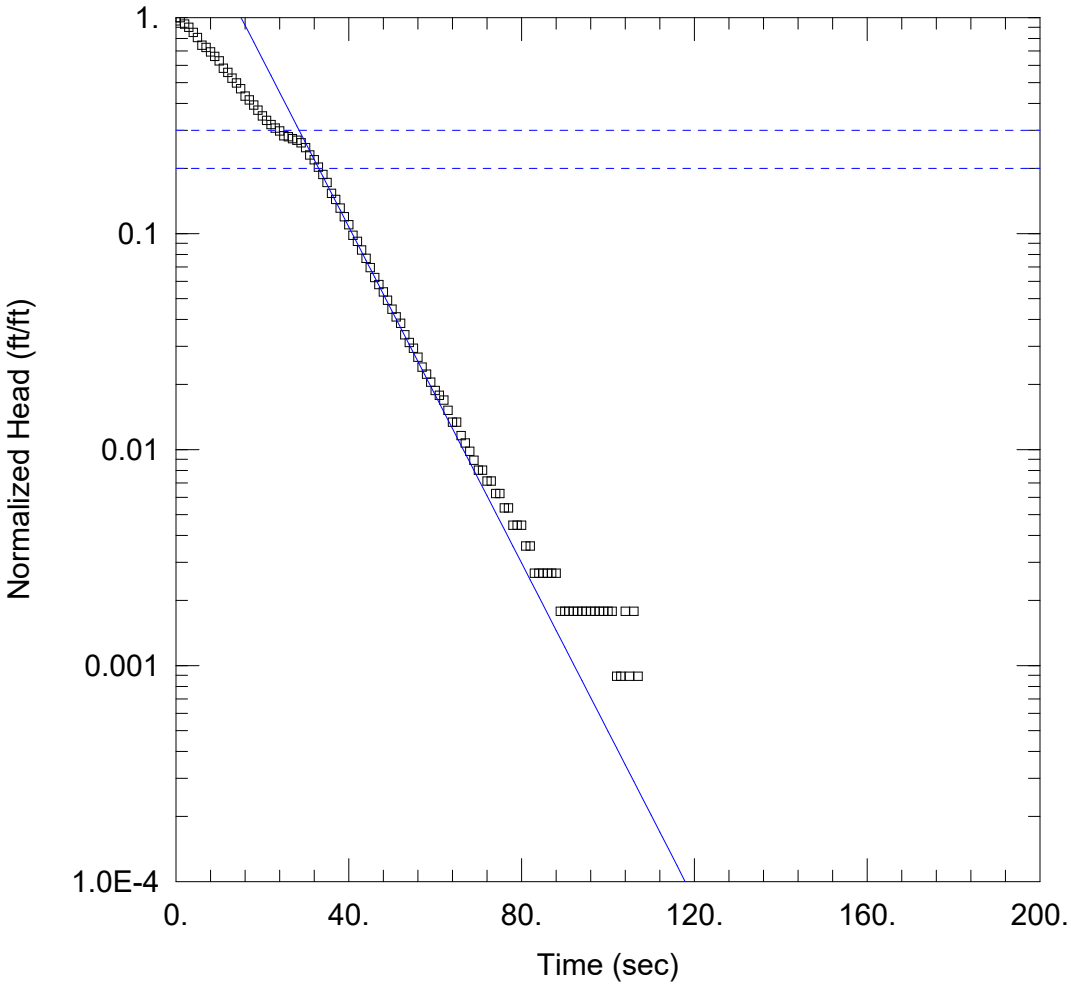
WELL DATA (MW-5 - 2 Gallon (VISUAL))

Initial Displacement: 5.25 ft
Total Well Penetration Depth: 38.55 ft
Casing Radius: 0.083 ft
Static Water Column Height: 38.55 ft
Screen Length: 15. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.00885 cm/sec y0 = 10.59 ft



JULY, 2024 SLUG TESTING (2ND ROUND)

Data Set: \...\MW-5 5 Gallon VISUAL.aqt
Date: 08/08/24 Time: 13:33:48

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-5 (VISUAL)
Test Date: July 30, 2024

AQUIFER DATA

Saturated Thickness: 38.55 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-5 - 5 Gallon (VISUAL))

Initial Displacement: 11.2 ft
Total Well Penetration Depth: 38.55 ft
Casing Radius: 0.083 ft
Static Water Column Height: 38.55 ft
Screen Length: 15. ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

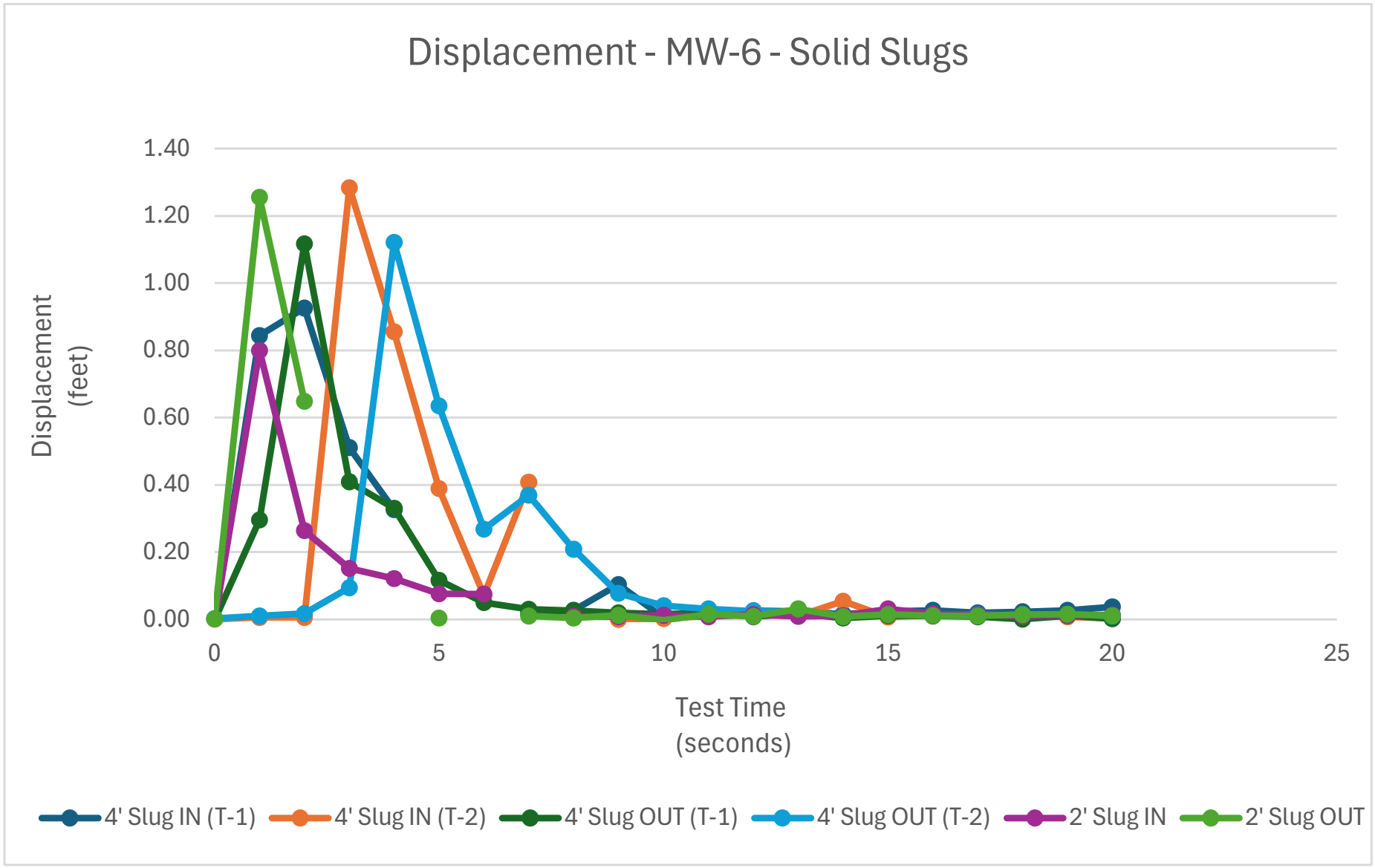
Aquifer Model: Unconfined Solution Method: Bouwer-Rice

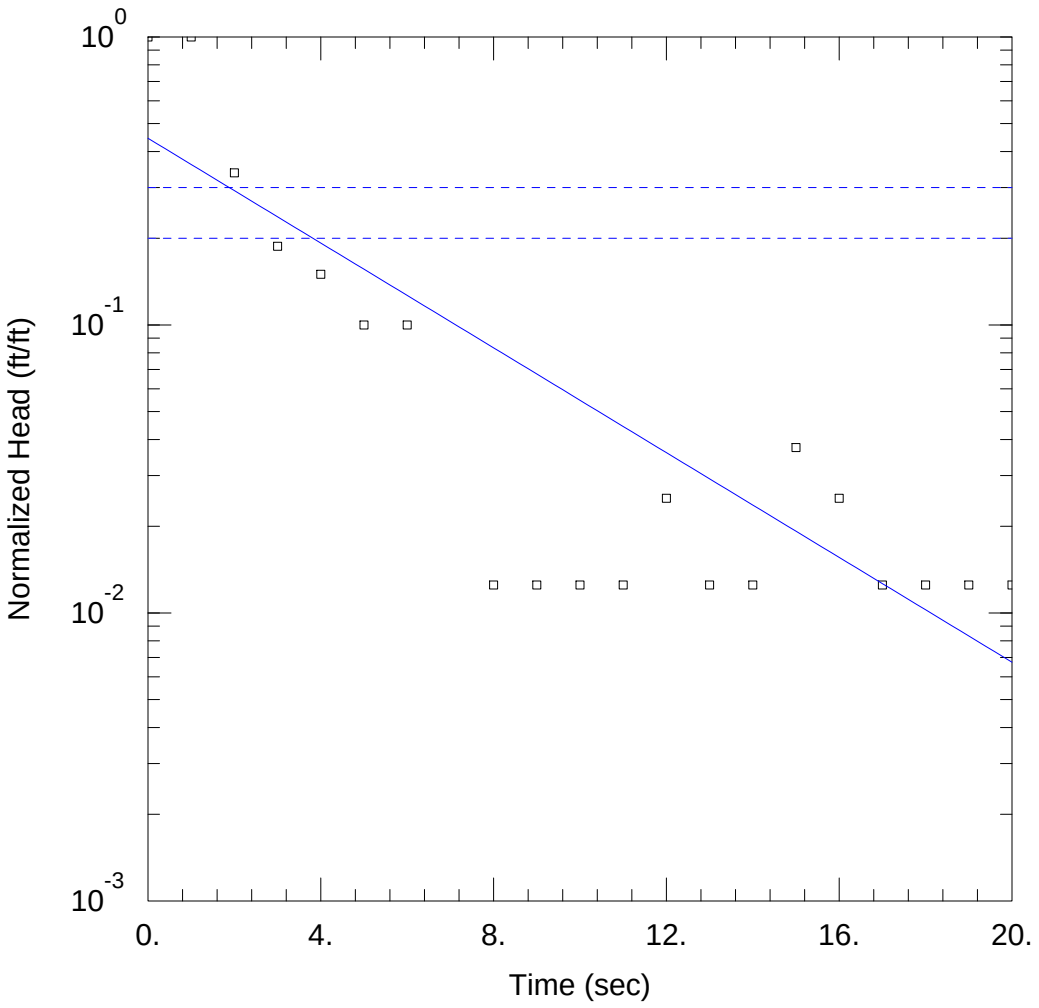
K = 0.008001 cm/sec y0 = 43.25 ft

Summary of Hydraulic Conductivity Testing Results
June-July, 2024
Warburton Dry Cleaners Site
321 Warburton Avenue
Yonkers, New York

WELL MW-6

(June, 2024)


Displacement - MW-6 - Solid Slugs
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
Displacement (feet)
0
5
10
15
20
25
Test Time (seconds)
4' Slug IN (T-1)
4' Slug IN (T-2)
4' Slug OUT (T-1)
4' Slug OUT (T-2)
2' Slug IN
2' Slug OUT



JUNE, 2024 SLUG TESTING

Data Set: C:\...\MW-6 2' SLUG IN.aqt
Date: 06/27/24 Time: 12:00:22

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-6
Test Date: June 20-24, 2024

AQUIFER DATA

Saturated Thickness: 19.63 ft Anisotropy Ratio (Kz/Kr): 1.

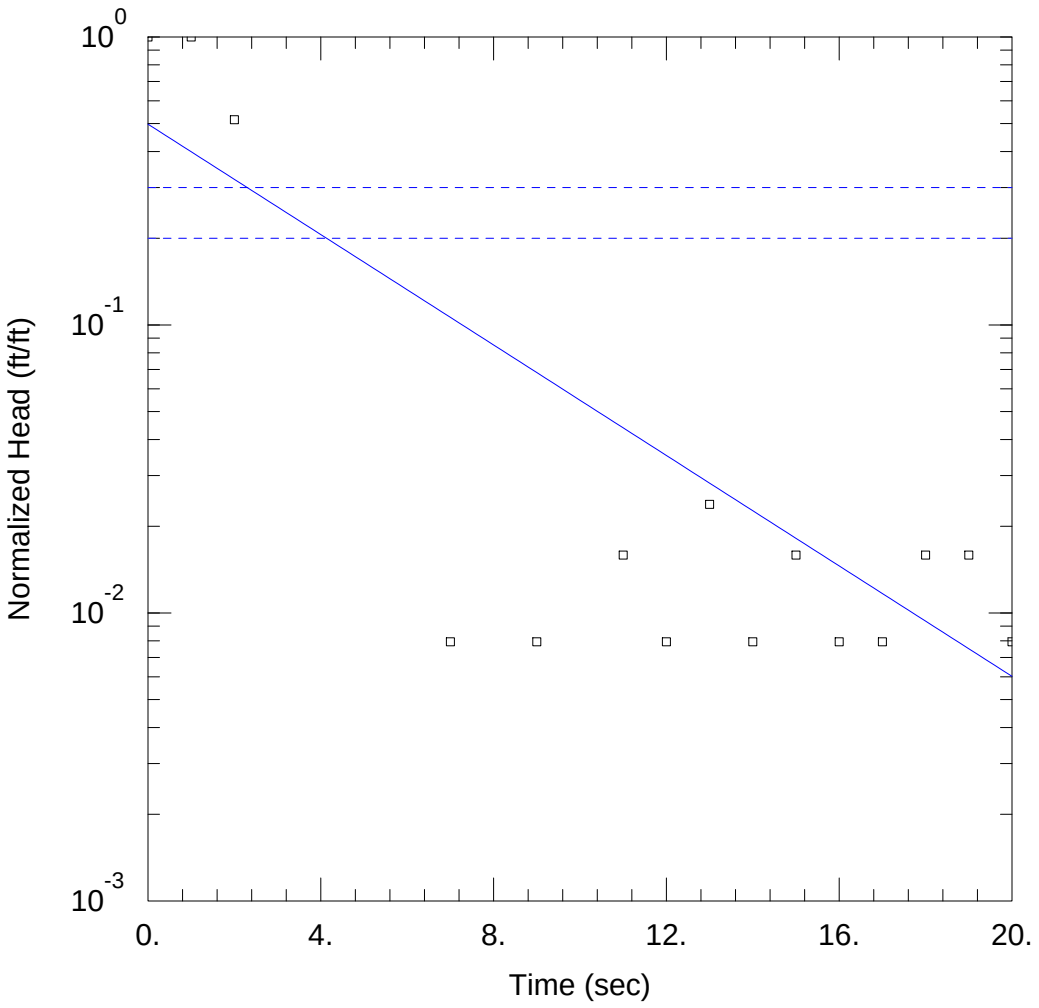
WELL DATA (MW-6 - 2' Slug IN)

Initial Displacement: 0.8 ft
Total Well Penetration Depth: 19.63 ft
Casing Radius: 0.083 ft
Static Water Column Height: 19.63 ft
Screen Length: 19.63 ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.01285 cm/sec y0 = 0.3557 ft



JUNE, 2024 SLUG TESTING

Data Set: C:\...\MW-6 2' SLUG OUT.aqt
Date: 06/27/24 Time: 11:59:33

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-6
Test Date: June 20-24, 2024

AQUIFER DATA

Saturated Thickness: 19.63 ft Anisotropy Ratio (Kz/Kr): 1.

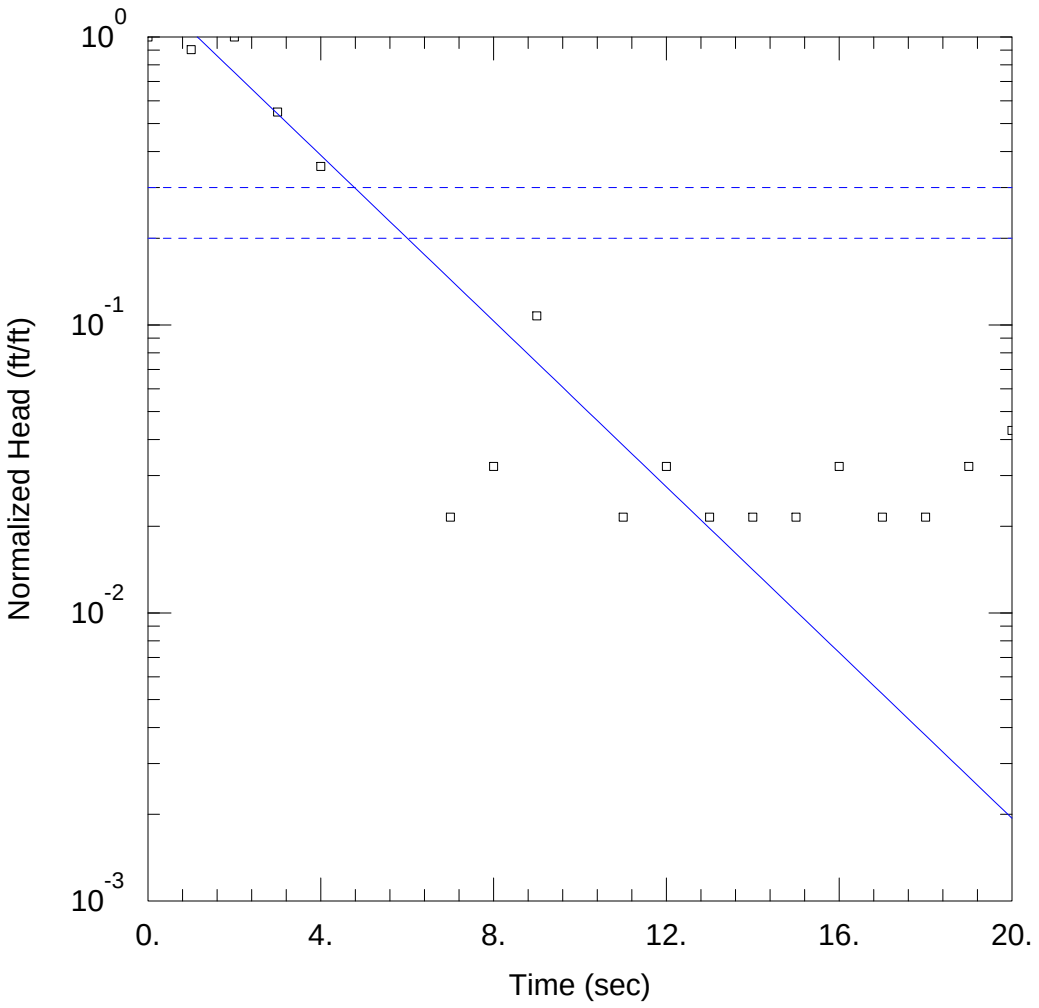
WELL DATA (MW-6 - 2' Slug OUT)

Initial Displacement: 1.26 ft
Total Well Penetration Depth: 19.63 ft
Casing Radius: 0.083 ft
Static Water Column Height: 19.63 ft
Screen Length: 19.63 ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.01354 cm/sec y0 = 0.6274 ft



JUNE, 2024 SLUG TESTING

Data Set: C:\...\MW-6 4' SLUG IN (T-1).aqt
Date: 06/27/24 Time: 12:01:10

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-6
Test Date: June 20-24, 2024

AQUIFER DATA

Saturated Thickness: 19.63 ft Anisotropy Ratio (Kz/Kr): 1.

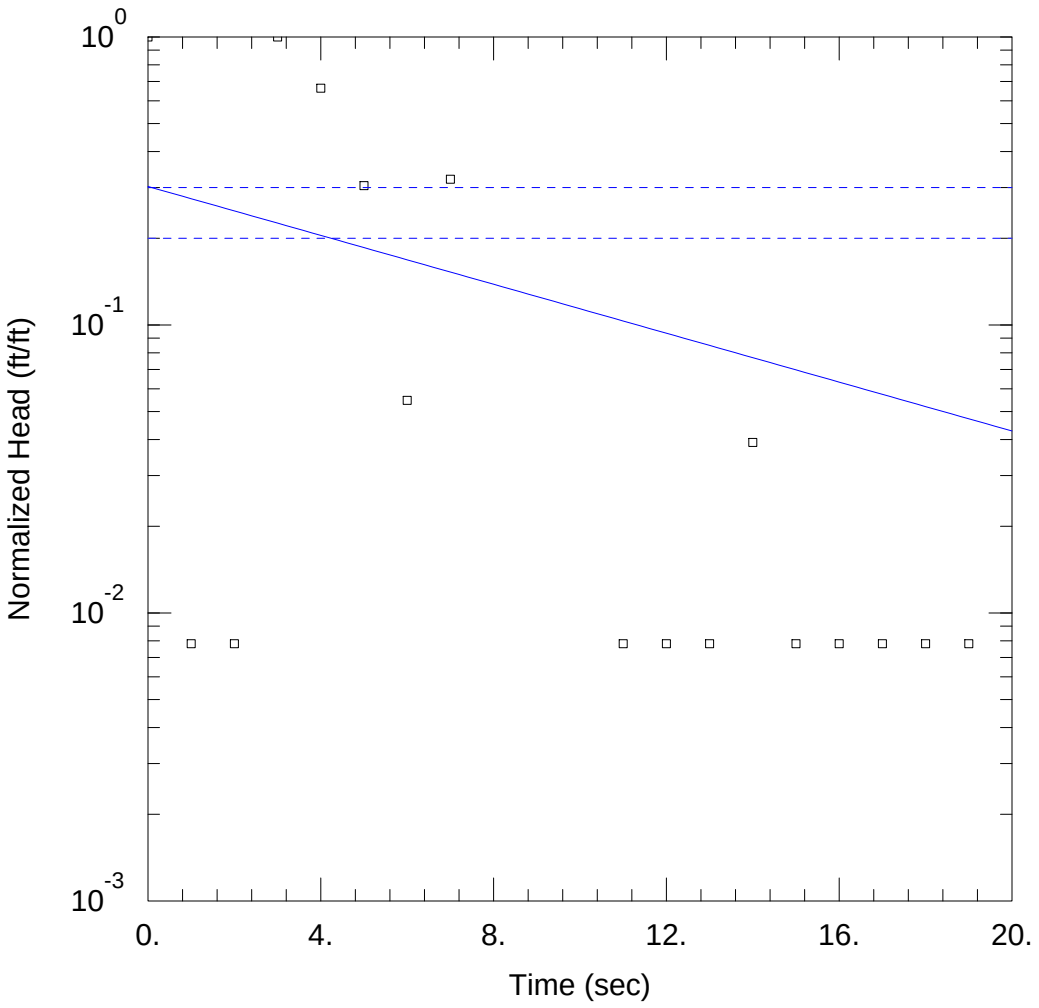
WELL DATA (MW-6 - 4' Slug IN (T-1))

Initial Displacement: 0.93 ft
Total Well Penetration Depth: 19.63 ft
Casing Radius: 0.083 ft
Static Water Column Height: 19.63 ft
Screen Length: 19.63 ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.02032 cm/sec y0 = 1.358 ft



JUNE, 2024 SLUG TESTING

Data Set: C:\...\MW-6 4' SLUG IN (T-2).aqt
Date: 06/27/24 Time: 12:01:54

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-6
Test Date: June 20-24, 2024

AQUIFER DATA

Saturated Thickness: 19.63 ft Anisotropy Ratio (Kz/Kr): 1.

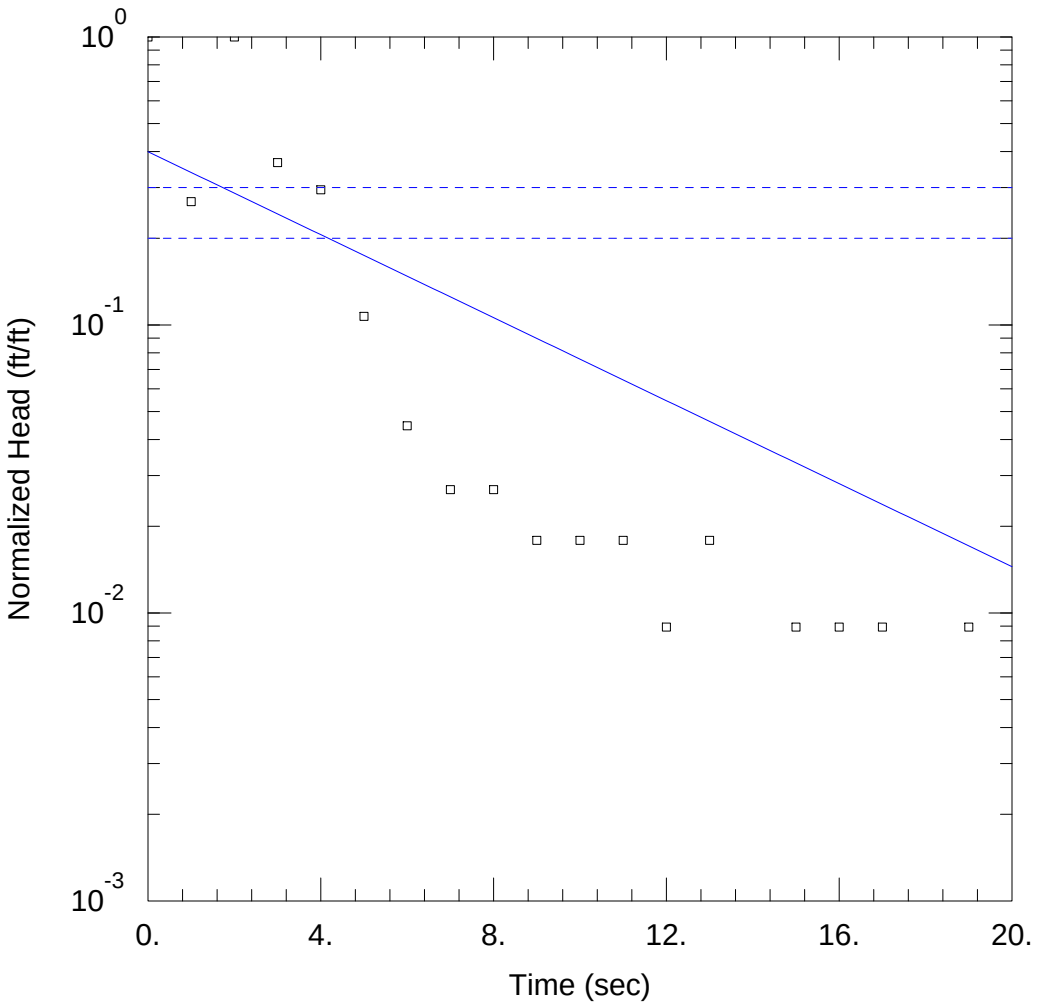
WELL DATA (MW-6 - 4' Slug IN (T-2))

Initial Displacement: 1.28 ft
Total Well Penetration Depth: 19.63 ft
Casing Radius: 0.083 ft
Static Water Column Height: 19.63 ft
Screen Length: 19.63 ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.005996 cm/sec y0 = 0.3872 ft



JUNE, 2024 SLUG TESTING

Data Set: C:\...\MW-6 4' SLUG OUT (T-1).aqt
Date: 06/27/24 Time: 12:02:47

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-6
Test Date: June 20-24, 2024

AQUIFER DATA

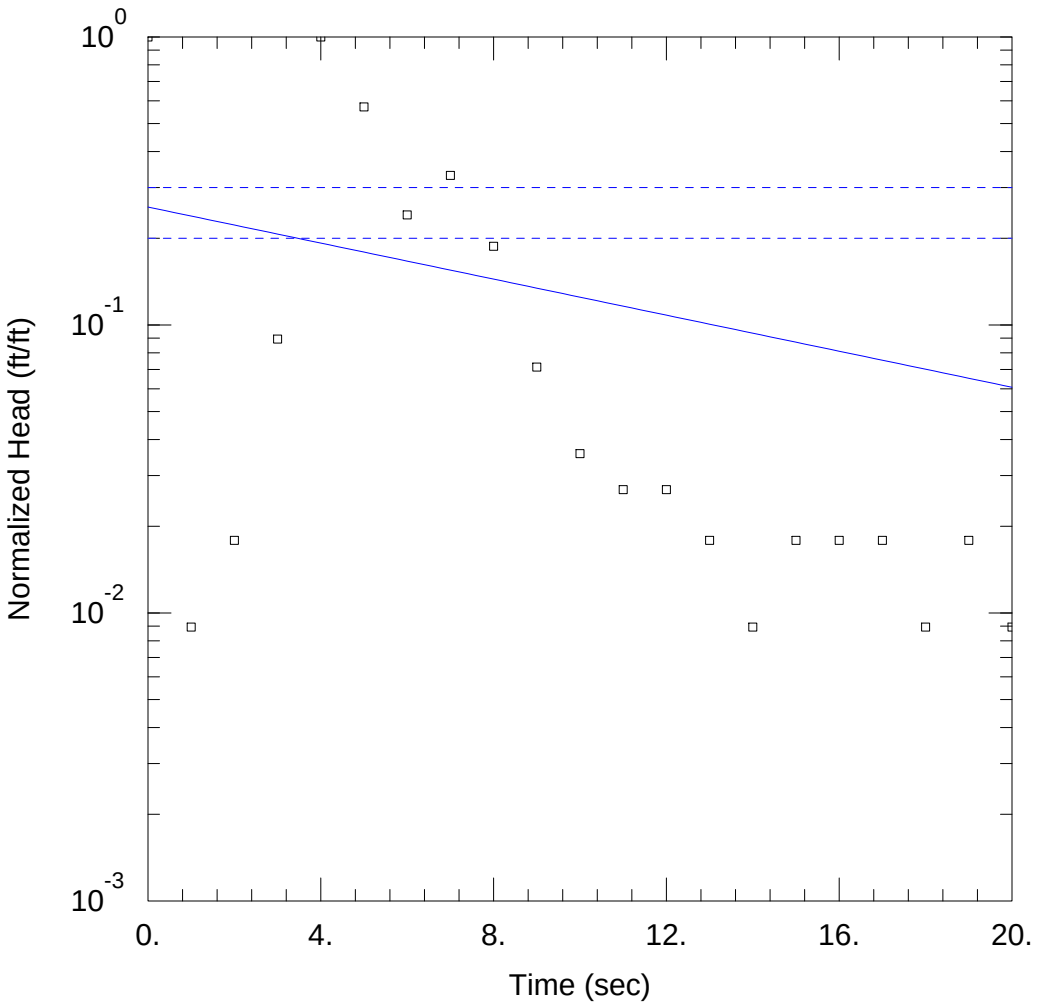
Saturated Thickness: 19.63 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-6 - 4' Slug OUT (T-1))

Initial Displacement: 1.12 ft
Total Well Penetration Depth: 19.63 ft
Casing Radius: 0.083 ft
Static Water Column Height: 19.63 ft
Screen Length: 19.63 ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.01017 cm/sec
y0 = 0.4473 ft



JUNE, 2024 SLUG TESTING

Data Set: C:\...\MW-6 4' SLUG OUT (T-2).aqt
Date: 06/27/24 Time: 12:03:26

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-6
Test Date: June 20-24, 2024

AQUIFER DATA

Saturated Thickness: 19.63 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-6 - 4' Slug OUT (T-2))

Initial Displacement: 1.12 ft
Total Well Penetration Depth: 19.63 ft
Casing Radius: 0.083 ft
Static Water Column Height: 19.63 ft
Screen Length: 19.63 ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

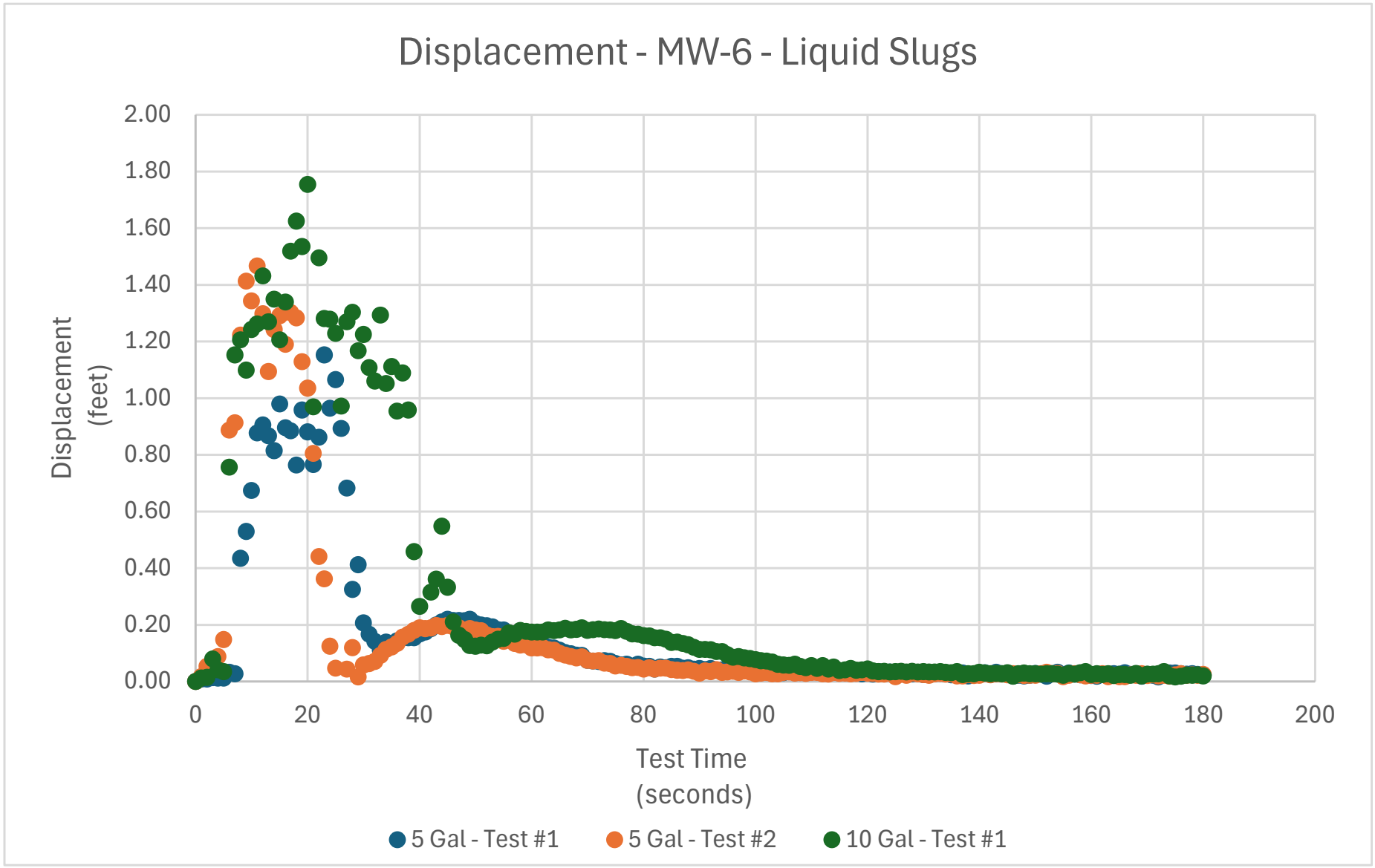
SOLUTION

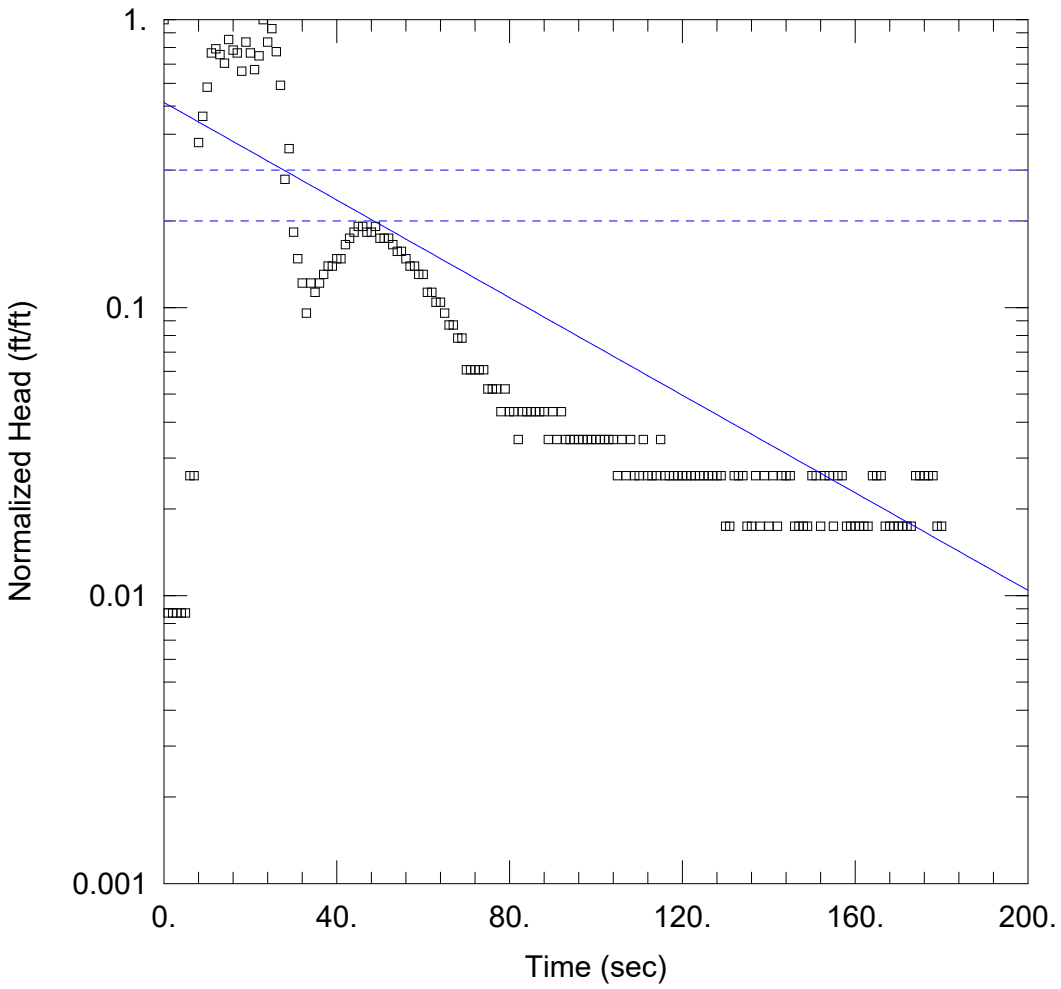
Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.004418 cm/sec y0 = 0.2874 ft

Summary of Hydraulic Conductivity Testing Results
June-July, 2024
Warburton Dry Cleaners Site
321 Warburton Avenue
Yonkers, New York

WELL MW-6
(July, 2024)


Displacement - MW-6 - Liquid Slugs
Displacement (feet)
2.00
1.80
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
0
20
40
60
80
100
120
140
160
180
200
Test Time (seconds)
5 Gal - Test #1
5 Gal - Test #2
10 Gal - Test #1



JULY, 2024 SLUG TESTING (2ND ROUND)

Data Set: \...\MW-6 5 Gallon - TEST #1 AUTO.aqt
Date: 08/08/24 Time: 13:26:17

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-6 LIQUID SLUGS (AUTO)
Test Date: July 30, 2024

AQUIFER DATA

Saturated Thickness: 17.6 ft Anisotropy Ratio (Kz/Kr): 1.

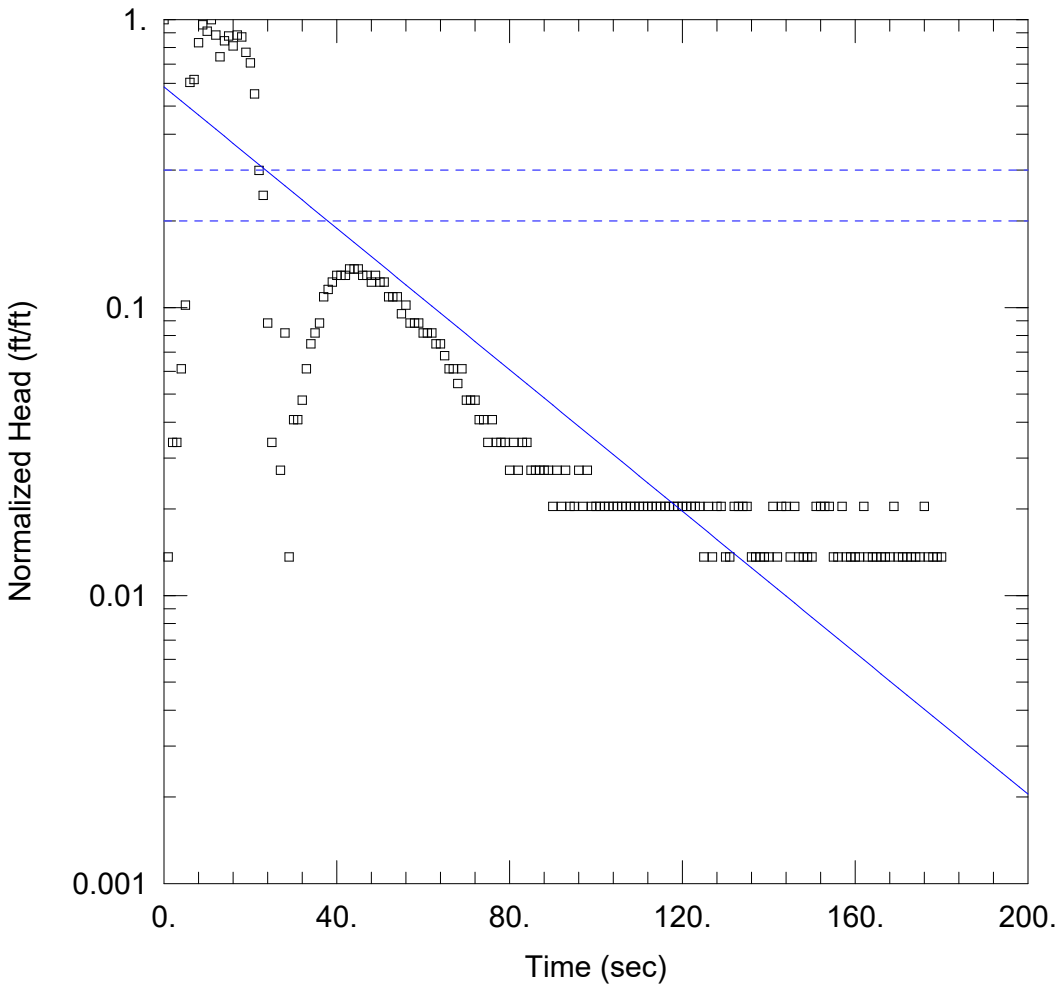
WELL DATA (MW-6 - 5 Gallon TEST #1)

Initial Displacement: 1.15 ft
Total Well Penetration Depth: 17.6 ft
Casing Radius: 0.083 ft
Static Water Column Height: 17.6 ft
Screen Length: 17.6 ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0013 cm/sec y0 = 0.5924 ft



JULY, 2024 SLUG TESTING (2ND ROUND)

Data Set: \...\MW-6 5 Gallon - TEST #2 AUTO.aqt
Date: 08/08/24 Time: 13:26:01

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-6 LIQUID SLUGS (AUTO)
Test Date: July 30, 2024

AQUIFER DATA

Saturated Thickness: 17.6 ft Anisotropy Ratio (Kz/Kr): 1.

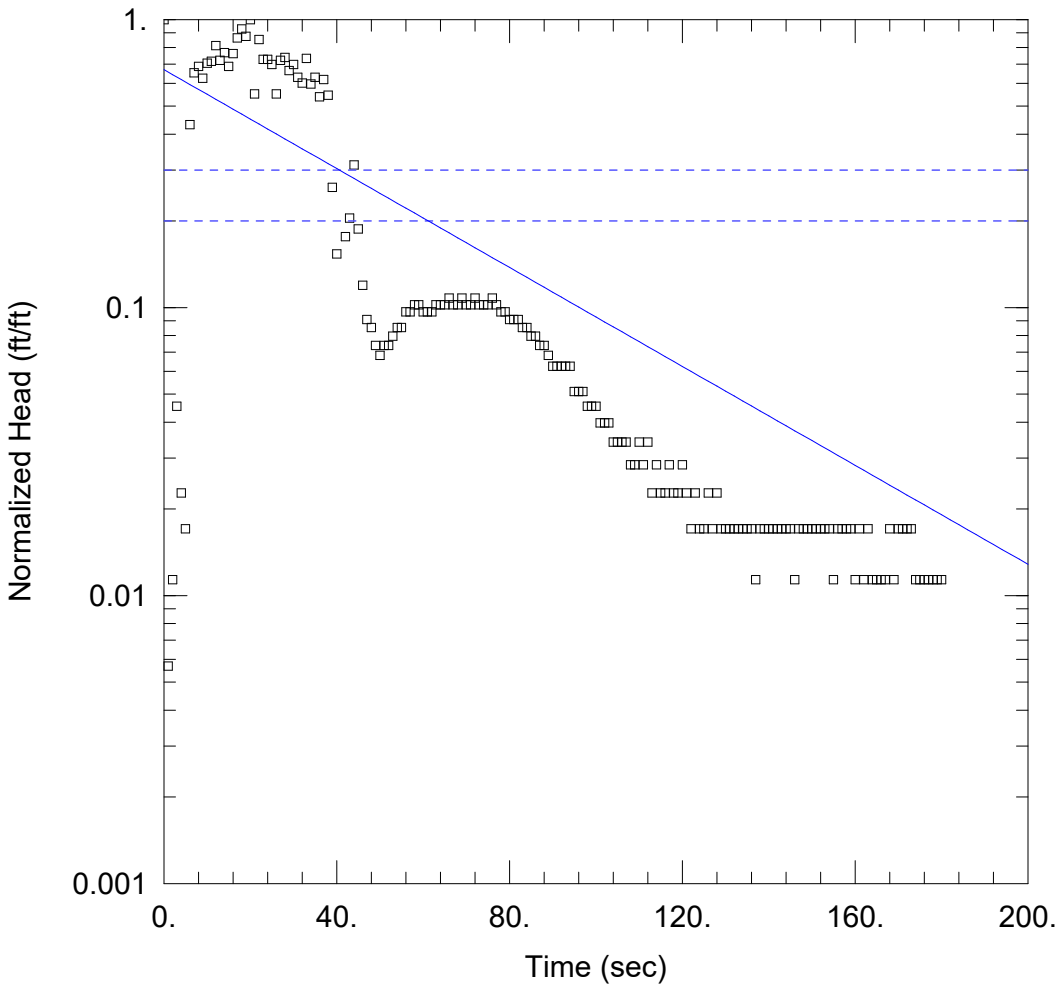
WELL DATA (MW-6 - 5 Gallon TEST #2 (AUTO))

Initial Displacement: 1.47 ft
Total Well Penetration Depth: 17.6 ft
Casing Radius: 0.083 ft
Static Water Column Height: 17.6 ft
Screen Length: 17.6 ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.001885 cm/sec y0 = 0.8585 ft



JULY, 2024 SLUG TESTING (2ND ROUND)

Data Set: \...\MW-6 10 Gallon AUTO.aqt
Date: 08/08/24 Time: 13:26:45

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-6 LIQUID SLUGS (AUTO)
Test Date: July 30, 2024

AQUIFER DATA

Saturated Thickness: 17.6 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-6 - 10 Gallon (AUTO))

Initial Displacement: 1.76 ft
Total Well Penetration Depth: 17.6 ft
Casing Radius: 0.083 ft
Static Water Column Height: 17.6 ft
Screen Length: 17.6 ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

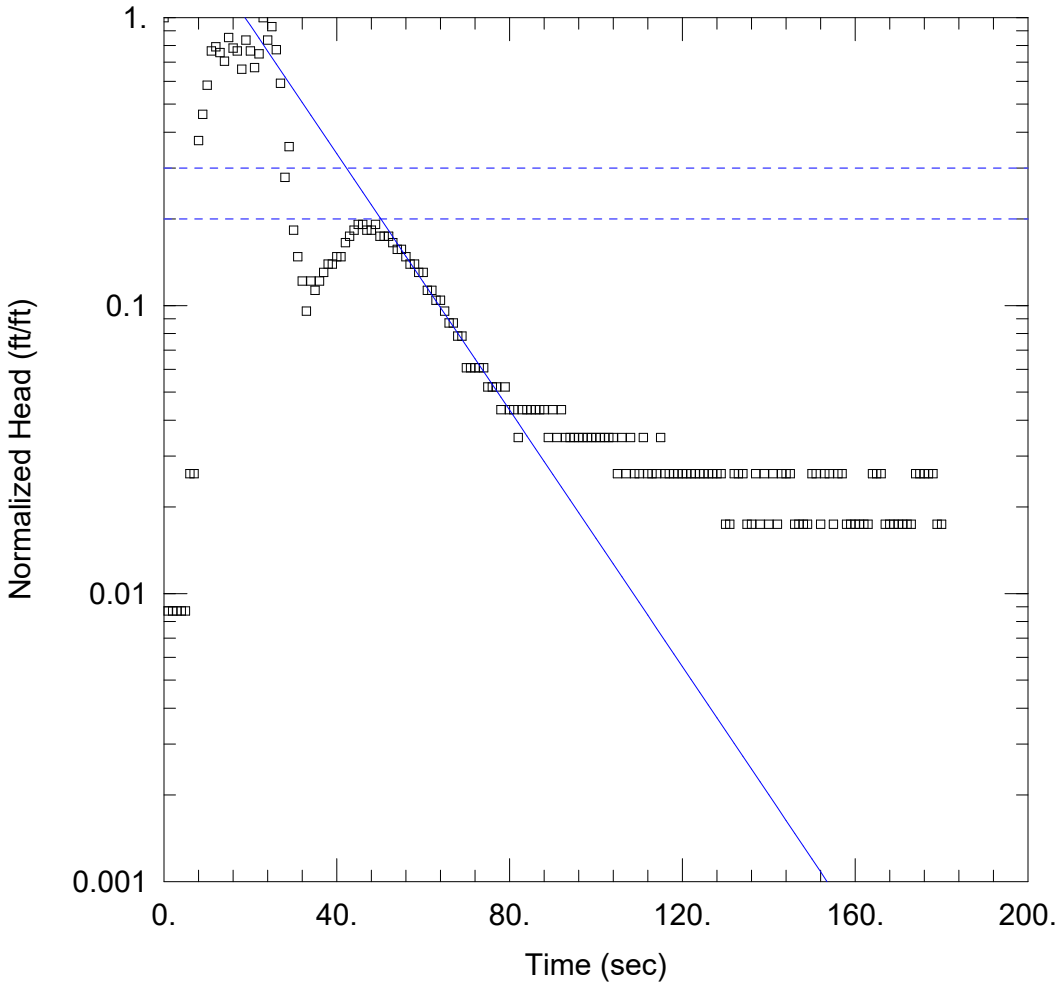
SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.001318 cm/sec y0 = 1.179 ft

Summary of Hydraulic Conductivity Testing Results
June-July, 2024
Warburton Dry Cleaners Site
321 Warburton Avenue
Yonkers, New York

AQTESOLVE - VISUAL SOLUTION



JULY, 2024 SLUG TESTING (2ND ROUND)

Data Set: \...\MW-6 5 Gallon - TEST #1 VISUAL.aqt
Date: 08/08/24 Time: 13:34:41

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-6 LIQUID SLUGS (VISUAL)
Test Date: July 30, 2024

AQUIFER DATA

Saturated Thickness: 17.6 ft Anisotropy Ratio (Kz/Kr): 1.

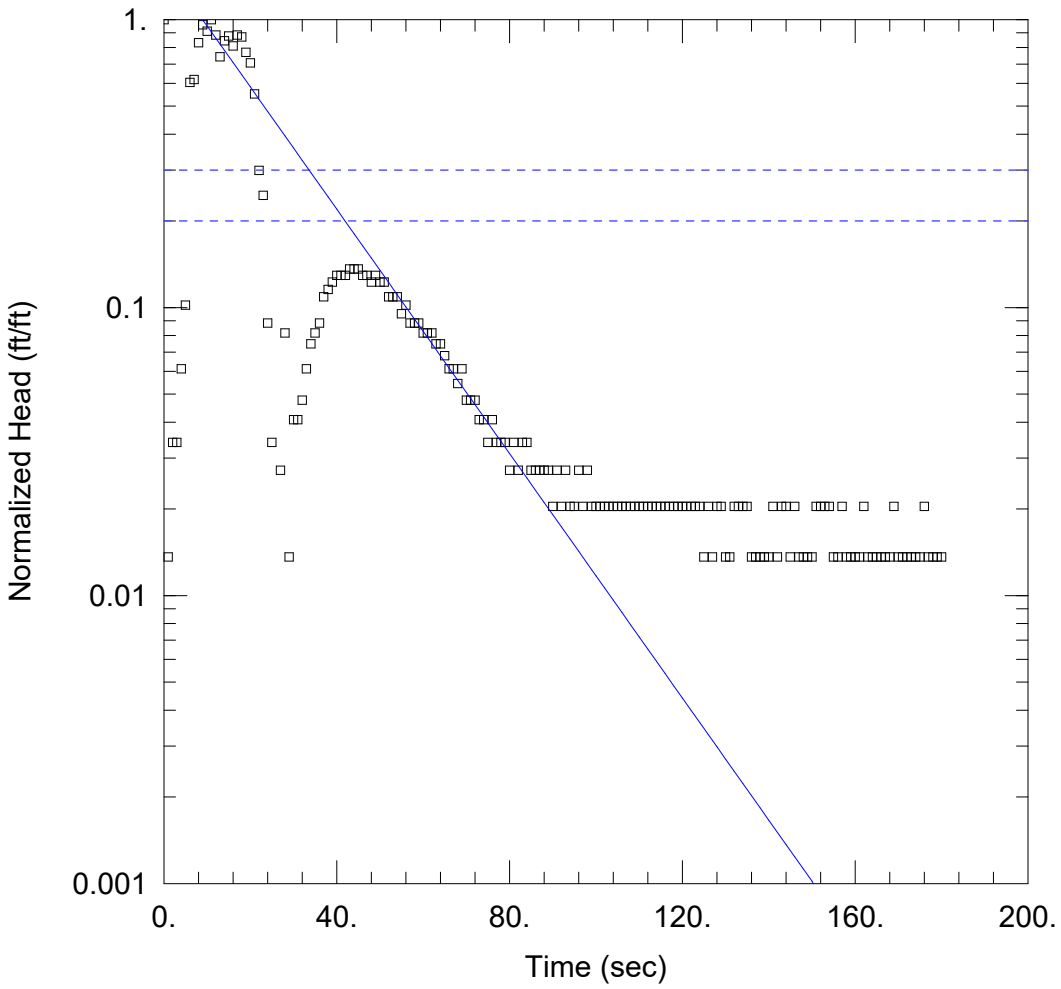
WELL DATA (MW-6 - 5 Gallon TEST #1 (VISUAL))

Initial Displacement: 1.15 ft
Total Well Penetration Depth: 17.6 ft
Casing Radius: 0.083 ft
Static Water Column Height: 17.6 ft
Screen Length: 17.6 ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.003417 cm/sec y0 = 3.008 ft



JULY, 2024 SLUG TESTING (2ND ROUND)

Data Set: \...\MW-6 5 Gallon - TEST #2 VISUAL.aqt
Date: 08/08/24 Time: 13:34:27

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-6 LIQUID SLUGS (VISUAL)
Test Date: July 30, 2024

AQUIFER DATA

Saturated Thickness: 17.6 ft Anisotropy Ratio (Kz/Kr): 1.

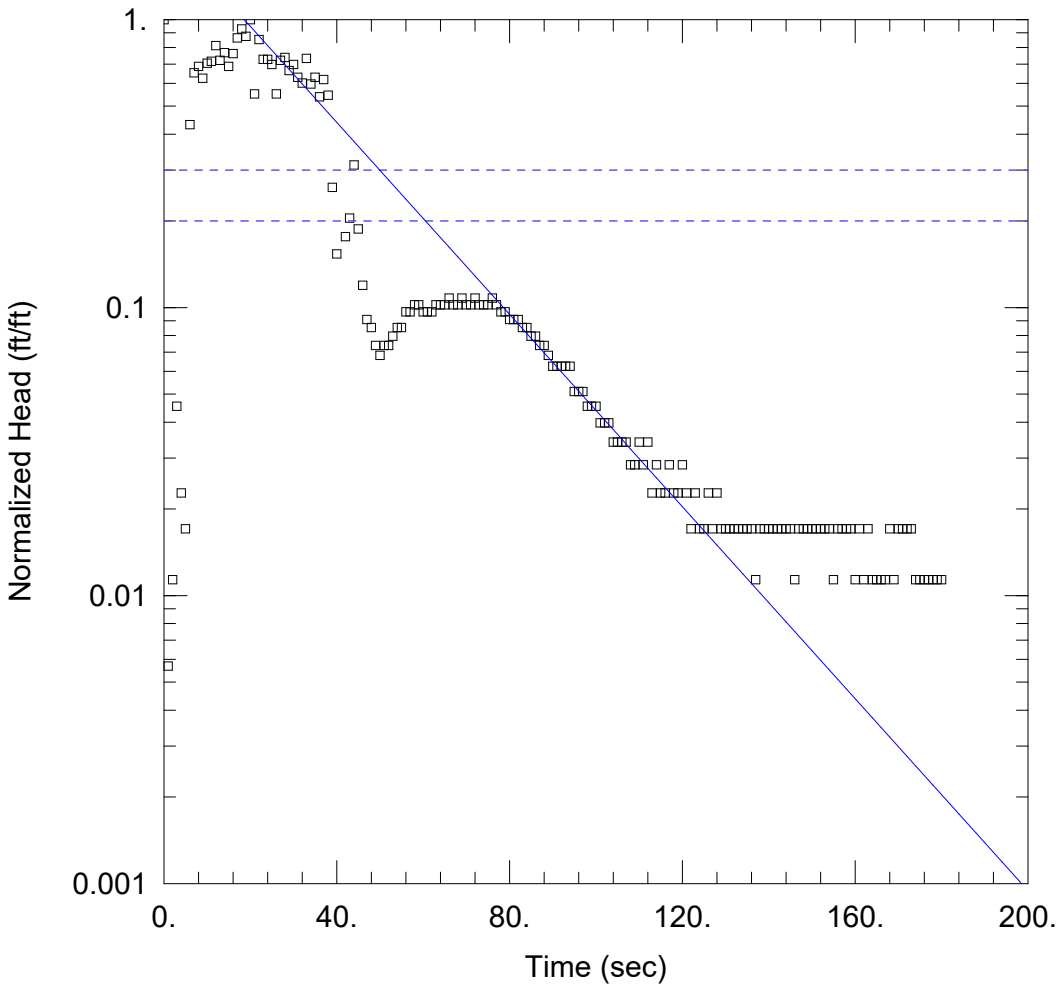
WELL DATA (MW-6 - 5 Gallon TEST #2 (VISUAL))

Initial Displacement: 1.47 ft
Total Well Penetration Depth: 17.6 ft
Casing Radius: 0.083 ft
Static Water Column Height: 17.6 ft
Screen Length: 17.6 ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.003257 cm/sec y0 = 2.276 ft



JULY, 2024 SLUG TESTING (2ND ROUND)

Data Set: \...\MW-6 10 Gallon VISUAL.aqt
Date: 08/08/24 Time: 13:34:54

PROJECT INFORMATION

Company: LaBella Associates, D.P.C.
Client: Conifer Realty
Project: 2221378 TASK 39
Location: 321 Warburton Ave, Yonkers, NY
Test Well: MW-6 LIQUID SLUGS (VISUAL)
Test Date: July 30, 2024

AQUIFER DATA

Saturated Thickness: 17.6 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-6 - 10 Gallon (VISUAL))

Initial Displacement: 1.76 ft
Total Well Penetration Depth: 17.6 ft
Casing Radius: 0.083 ft
Static Water Column Height: 17.6 ft
Screen Length: 17.6 ft
Well Radius: 0.25 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.00256 cm/sec y0 = 3.593 ft

APPENDIX B

Groundwater Velocity Calculations

Warburton Dry Cleaners Site
321 Warburton Avenue
Yonkers, New York

Sitewide Geo. Mean K =	2.16E-03	cm/sec
Sitewide Geo. Mean K =	6.13	ft/day
Site hydraulic gradient	0.006 - 0.015	ft/ft
Assumed effective porosity	0.2	
Average groundwater velocity	0.18 - 0.46	ft/day

APPENDIX C

Groundwater Sampling Results
Summary Tables

Table 1
Groundwater Analytical Results - VOCs
Permeable Reactive Barrier Work Plan
BCP No. C360227

LOCATION	NY-AWQS		MW-1-20240610		MW-1D-20240610		MW-3-20240610		MW-5-20240610		DUP-20240610		MW-2 (60')		MW-2 (66')		MW-2 (73.5')		MW-4 (59')		MW-4 (66.5')		MW-4 (73.5')		MW-6 (56')		MW-6 (65')		MW-6 (73.5')	
SAMPLING DATE			6/10/2024		6/10/2024		6/10/2024		6/10/2024		6/10/2024		6/11/2024		6/11/2024		6/11/2024		6/11/2024		6/11/2024		6/11/2024		6/11/2024		6/11/2024		6/11/2024	
LAB SAMPLE ID			L2432304-01		L2432304-02		L2432304-03		L2432304-04		L2432304-05		L2432795-01		L2432795-02		L2432795-03		L2432795-04		L2432795-05		L2432795-06		L2432795-07		L2432795-08		L2432795-09	
SAMPLE TYPE			WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER	
		Units	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
Volatile Organics by GC/MS																														
Methylene chloride	5	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
1,1-Dichloroethane	5	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
Chloroform	7	ug/l	2.5	U	25	U	2.5	U	2.5	U	0.91	J	120	U	120	U	250	U	2.5	U	2.5	U	5	U	3		50	U	62	U
Carbon tetrachloride	5	ug/l	0.5	U	5	U	0.5	U	0.5	U	0.5	U	25	U	25	U	50	U	0.5	U	0.5	U	1	U	0.5	U	10	U	12	U
1,2-Dichloropropane	1	ug/l	1	U	10	U	1	U	1	U	1	U	50	U	50	U	100	U	1	U	1	U	2	U	1	U	20	U	25	U
Dibromochloromethane	50	ug/l	0.5	U	5	U	0.5	U	0.5	U	0.5	U	25	U	25	U	50	U	0.5	U	0.5	U	1	U	0.5	U	10	U	12	U
1,1,2-Trichloroethane	1	ug/l	1.5	U	15	U	1.5	U	1.5	U	1.5	U	75	U	75	U	150	U	1.5	U	1.5	U	3	U	1.5	U	30	U	38	U
Tetrachloroethene	5	ug/l	4.2		1000		0.5	U	0.36	J	2.8		6000		7800		8400		79		38		170		160		2200		2400	
Chlorobenzene	5	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
Trichlorofluoromethane	5	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
1,2-Dichloroethane	0.6	ug/l	0.5	U	5	U	0.5	U	0.5	U	0.5	U	25	U	25	U	50	U	0.5	U	0.5	U	1	U	0.5	U	10	U	12	U
1,1,1-Trichloroethane	5	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
Bromodichloromethane	50	ug/l	0.5	U	5	U	0.5	U	0.5	U	0.5	U	25	U	25	U	50	U	0.5	U	0.5	U	1	U	0.5	U	10	U	12	U
trans-1,3-Dichloropropene	0.4	ug/l	0.5	U	5	U	0.5	U	0.5	U	0.5	U	25	U	25	U	50	U	0.5	U	0.5	U	1	U	0.5	U	10	U	12	U
cis-1,3-Dichloropropene	0.4	ug/l	0.5	U	5	U	0.5	U	0.5	U	0.5	U	25	U	25	U	50	U	0.5	U	0.5	U	1	U	0.5	U	10	U	12	U
1,3-Dichloropropene, Total		ug/l	0.5	U	5	U	0.5	U	0.5	U	0.5	U	25	U	25	U	50	U	0.5	U	0.5	U	1	U	0.5	U	10	U	12	U
1,1-Dichloropropene	5	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
Bromoform	50	ug/l	2	U	20	U	2	U	2	U	2	U	100	U	100	U	200	U	2	U	2	U	4	U	2	U	40	U	50	U
1,1,2,2-Tetrachloroethane	5	ug/l	0.5	U	5	U	0.5	U	0.5	U	0.5	U	25	U	25	U	50	U	0.5	U	0.5	U	1	U	0.5	U	10	U	12	U
Benzene	1	ug/l	0.5	U	5	U	0.5	U	0.5	U	0.5	U	25	U	25	U	50	U	0.5	U	0.5	U	1	U	0.5	U	10	U	12	U
Toluene	5	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
Ethylbenzene	5	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
Chloromethane		ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
Bromomethane	5	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
Vinyl chloride	2	ug/l	1	U	10	U	1	U	1	U	1	U	50	U	50	U	100	U	1	U	1	U	2	U	1	U	20	U	25	U
Chloroethane	5	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
1,1-Dichloroethene	5	ug/l	0.5	U	5	U	0.5	U	0.5	U	0.5	U	25	U	25	U	50	U	0.5	U	0.5	U	1	U	0.5	U	10	U	12	U
trans-1,2-Dichloroethene	5	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
Trichloroethene	5	ug/l	0.5	U	5	U	0.5	U	0.5	U	0.5	U	25	U	25	U	50	U	2.3		0.94		3.6		0.45	J	10	U	12	U
1,2-Dichlorobenzene	3	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
1,3-Dichlorobenzene	3	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
1,4-Dichlorobenzene	3	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
Methyl tert butyl ether	10	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
p/m-Xylene	5	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
o-Xylene	5	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
Xylenes, Total		ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
cis-1,2-Dichloroethene	5	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
1,2-Dichloroethene, Total		ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
Dibromomethane	5	ug/l	5	U	50	U	5	U	5	U	5	U	250	U	250	U	500	U	5	U	5	U	10	U	5	U	100	U	120	U
1,2,3-Trichloropropane	0.04	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
Acrylonitrile	5	ug/l	5	U	50	U	5	U	5	U	5	U	250	U	250	U	500	U	5	U	5	U	10	U	5	U	100	U	120	U
Styrene	5	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
Dichlorodifluoromethane	5	ug/l	5	U	50	U	5	U	5	U	5	U	250	U	250	U	500	U	5	U	5	U	10	U	5	U	100	U	120	U
Acetone	50	ug/l	5	U	50	U	5	U	5	U	5	U	250	U	82	J	500	U	80		99		110		9.4		100	U	120	U
Carbon disulfide	60	ug/l	5	U	50	U	5	U	5	U	5	U	250	U	250	U	500	U	5	U	5	U	10	U	5	U	100	U	120	U
2-Butanone	50	ug/l	5	U	50	U	5	U	5	U	5	U	250	U	250	U	500	U	2.1	J	2.5	J	10	U	4	J	100	U	120	U
Vinyl acetate		ug/l	5	U	50	U	5	U	5	U	5	U	250	U	250	U	500	U	5	U	5	U	10	U	5	U	100	U	120	U
4-Methyl-2-pentanone		ug/l	5	U	50	U	5	U	5	U	5	U	250	U	250	U	500	U	5	U	5	U	10	U	5	U	100	U	120	U
2-Hexanone	50	ug/l	5	U	50	U	5	U	5	U	5	U	250	U	250	U	500	U	5	U	5	U	10	U	5	U	100	U	120	U
Bromochloromethane	5	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
2,2-Dichloropropane	5	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
1,2-Dibromoethane	0.0006	ug/l	2	U	20	U	2	U	2	U	2	U	100	U	100	U	200	U	2	U	2	U	4	U	2	U	40	U	50	U
1,3-Dichloropropane	5	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
1,1,1,2-Tetrachloroethane	5	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
Bromobenzene	5	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
n-Butylbenzene	5	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
sec-Butylbenzene	5	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
tert-Butylbenzene	5	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
o-Chlorotoluene	5	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
p-Chlorotoluene	5	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
1,2-Dibromo-3-chloropropane	0.04	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
Hexachlorobutadiene	0.5	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
Isopropylbenzene	5	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
p-Isopropyltoluene	5	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
Naphthalene	10	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
n-Propylbenzene	5	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
1,2,3-Trichlorobenzene	5	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
1,2,4-Trichlorobenzene	5	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
1,3,5-Trimethylbenzene	5	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
1,2,4-Trimethylbenzene	5	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
1,4-Dioxane		ug/l	250	U	2500	U	250	U	250	U	250	U	12000	U	12000	U	25000	U	250	U	250	U	500	U	250	U	5000	U	6200	U
p-Diethylbenzene		ug/l	2	U	20	U	2	U	2	U	2	U	100	U	100	U	200	U	2	U	2	U	4	U	2	U	40	U	50	U
p-Ethyltoluene		ug/l	2	U	20	U	2	U	2	U	2	U	100	U	100	U	200	U	2	U	2	U	4	U	2	U	40	U	50	U
1,2,4,5-Tetramethylbenzene	5	ug/l	2	U	20	U	2	U	2	U	2	U	100	U	100	U	200	U	2	U	2	U	4	U	2	U	40	U	50	U
Ethyl ether		ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U
trans-1,4-Dichloro-2-butene	5	ug/l	2.5	U	25	U	2.5	U	2.5	U	2.5	U	120	U	120	U	250	U	2.5	U	2.5	U	5	U	2.5	U	50	U	62	U

* Comparison is not performed on parameters with non-numeric criteria.
NY-AWQS: New York TOGS 111 Ambient Water Quality Standards criteria reflects all addendum to criteria through June 2004.
Highlighted cells exceed NY-AWQS.
U - Not detected at the reported detection limit for the sample.
J - Estimated value.

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Table 2
Groundwater Analytical Results
Monitored Natural Attenuation Parameters
Permeable Reactive Barrier Work Plan
BCP No. C360227

LOCATION			MW-1-20240610		MW-1D-20240610		MW-3-20240610		MW-5-20240610		DUP-20240610		MW-2-20240611		MW-4-20240611		MW-6-20240611	
SAMPLING DATE			6/10/2024		6/10/2024		6/10/2024		6/10/2024		6/10/2024		6/11/2024		6/11/2024		6/11/2024	
LAB SAMPLE ID			L2432304-01		L2432304-02		L2432304-03		L2432304-04		L2432304-05		L2432795-11		L2432795-12		L2432795-13	
SAMPLE TYPE			WATER		WATER		WATER		WATER		WATER		WATER		WATER		WATER	
	NY-AWQS	Units	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q	Results	Q
Field Parameter Measurements																		
Temperature		°C	16.1		14.8		18		14.6		-		16.4		15.7		14.7	
Dissolved Oxygen		mg/L	0.6		5.32		1.4		4.5		-		3.75		2.85		6.14	
Conductivity		mS/cm	1.816		1.674		755		1.633		-		0.938		1.723		1.642	
pH			7.65		6.41		7.65		6.38		-		5.95		6.64		6.29	
Redox		mV	-80		118.4		-104.2		30.3		-		120.7		3.2		-1	
Turbidity		NTU	10		6.8		22.46		28.8		-		4.89		10.01		28.56	
Anions by Ion Chromatography																		
Chloride	250000	ug/l	464000		406000		4060		347000		457000		158000		341000		367000	
Sulfate	250000	ug/l	7440		49100		40200		55900		26800		41600		55700		40100	
General Chemistry																		
Alkalinity, Total		mg CaCO3	151		110		290		169		152		119		277		110	
Nitrogen, Nitrate/Nitrite	10000	ug/l	100	U	6000		5500		6500		2600		7300		3400		5900	
Total Organic Carbon		ug/l	660		330	J	2100		870		620		1300		1000		360	J
Iron, Ferrous		ug/l	80	J	160	J	70	J	500	U	130	J	500	U	80	J	500	U
Total Hardness (by calculation)																		
Hardness		ug/l	333700		495100		325700		361500		367500		282400		513800		326300	

* Comparison is not performed on parameters with non-numeric criteria.
NY-AWQS: New York TOGS 111 Ambient Water Quality Standards criteria reflects all addendum to criteria through June 2004.
Highlighted cells exceed NY-AWQS.
U - Not detected at the reported detection limit for the sample.
J - Estimated value.

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APPENDIX D

Groundwater Sampling Laboratory Results

ANALYTICAL REPORT

Lab Number:	L2432304
Client:	LaBella Associates 45 Main Street Brooklyn, NY 11201
ATTN:	Cynthia Chu
Phone:	(917) 280-6364
Project Name:	WARBURTON DRY CLEANERS SITE
Project Number:	2221378
Report Date:	06/20/24

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Project Name: WARBURTON DRY CLEANERS SITE
Project Number: 2221378

Lab Number: L2432304
Report Date: 06/20/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2432304-01	MW-1-20240610	WATER	YONKERS, NY	06/10/24 10:57	06/10/24
L2432304-02	MW-1D-20240610	WATER	YONKERS, NY	06/10/24 10:07	06/10/24
L2432304-03	MW-3-20240610	WATER	YONKERS, NY	06/10/24 11:45	06/10/24
L2432304-04	MW-5-20240610	WATER	YONKERS, NY	06/10/24 12:20	06/10/24
L2432304-05	DUP-20240610	WATER	YONKERS, NY	06/10/24 12:00	06/10/24
L2432304-06	TRIP BLANK	WATER	YONKERS, NY	06/10/24 00:00	06/10/24

Project Name:	WARBURTON DRY CLEANERS SITE	**Lab Number:**	L2432304
Project Number:	2221378	**Report Date:**	06/20/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	WARBURTON DRY CLEANERS SITE	**Lab Number:**	L2432304
Project Number:	2221378	**Report Date:**	06/20/24

Case Narrative (continued)

Report Submission

June 20, 2024: This final report includes the results of all requested analyses.

June 19, 2024: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

The analysis of Sulfide was subcontracted. A copy of the laboratory report is included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative Date: 06/20/24

ORGANICS

VOLATILES

Project Name: WARBURTON DRY CLEANERS SITE **Lab Number:** L2432304

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432304-01
Client ID: MW-1-20240610
Sample Location: YONKERS, NY

Date Collected: 06/10/24 10:57
Date Received: 06/10/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 06/14/24 00:11
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	4.2		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: WARBURTON DRY CLEANERS SITE **Lab Number:** L2432304

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432304-01 Date Collected: 06/10/24 10:57

Client ID: MW-1-20240610 Date Received: 06/10/24

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: WARBURTON DRY CLEANERS SITE **Lab Number:** L2432304

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432304-01 Date Collected: 06/10/24 10:57

Client ID: MW-1-20240610 Date Received: 06/10/24

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	98		70-130

Project Name: WARBURTON DRY CLEANERS SITE **Lab Number:** L2432304

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432304-02 D
Client ID: MW-1D-20240610
Sample Location: YONKERS, NY

Date Collected: 06/10/24 10:07
Date Received: 06/10/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 06/14/24 00:35
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	25	7.0	10
1,1-Dichloroethane	ND		ug/l	25	7.0	10
Chloroform	ND		ug/l	25	7.0	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
1,2-Dichloropropane	ND		ug/l	10	1.4	10
Dibromochloromethane	ND		ug/l	5.0	1.5	10
1,1,2-Trichloroethane	ND		ug/l	15	5.0	10
Tetrachloroethene	1000		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	25	7.0	10
Trichlorofluoromethane	ND		ug/l	25	7.0	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
1,1,1-Trichloroethane	ND		ug/l	25	7.0	10
Bromodichloromethane	ND		ug/l	5.0	1.9	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	1.6	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	1.4	10
1,3-Dichloropropene, Total	ND		ug/l	5.0	1.4	10
1,1-Dichloropropene	ND		ug/l	25	7.0	10
Bromoform	ND		ug/l	20	6.5	10
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	1.7	10
Benzene	ND		ug/l	5.0	1.6	10
Toluene	ND		ug/l	25	7.0	10
Ethylbenzene	ND		ug/l	25	7.0	10
Chloromethane	ND		ug/l	25	7.0	10
Bromomethane	ND		ug/l	25	7.0	10
Vinyl chloride	ND		ug/l	10	0.71	10
Chloroethane	ND		ug/l	25	7.0	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
trans-1,2-Dichloroethene	ND		ug/l	25	7.0	10

Project Name: WARBURTON DRY CLEANERS SITE **Lab Number:** L2432304

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432304-02 D Date Collected: 06/10/24 10:07
Client ID: MW-1D-20240610 Date Received: 06/10/24
Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	5.0	1.8	10
1,2-Dichlorobenzene	ND		ug/l	25	7.0	10
1,3-Dichlorobenzene	ND		ug/l	25	7.0	10
1,4-Dichlorobenzene	ND		ug/l	25	7.0	10
Methyl tert butyl ether	ND		ug/l	25	1.7	10
p/m-Xylene	ND		ug/l	25	7.0	10
o-Xylene	ND		ug/l	25	7.0	10
Xylenes, Total	ND		ug/l	25	7.0	10
cis-1,2-Dichloroethene	ND		ug/l	25	7.0	10
1,2-Dichloroethene, Total	ND		ug/l	25	7.0	10
Dibromomethane	ND		ug/l	50	10.	10
1,2,3-Trichloropropane	ND		ug/l	25	7.0	10
Acrylonitrile	ND		ug/l	50	15.	10
Styrene	ND		ug/l	25	7.0	10
Dichlorodifluoromethane	ND		ug/l	50	10.	10
Acetone	ND		ug/l	50	15.	10
Carbon disulfide	ND		ug/l	50	10.	10
2-Butanone	ND		ug/l	50	19.	10
Vinyl acetate	ND		ug/l	50	10.	10
4-Methyl-2-pentanone	ND		ug/l	50	10.	10
2-Hexanone	ND		ug/l	50	10.	10
Bromochloromethane	ND		ug/l	25	7.0	10
2,2-Dichloropropane	ND		ug/l	25	7.0	10
1,2-Dibromoethane	ND		ug/l	20	6.5	10
1,3-Dichloropropane	ND		ug/l	25	7.0	10
1,1,1,2-Tetrachloroethane	ND		ug/l	25	7.0	10
Bromobenzene	ND		ug/l	25	7.0	10
n-Butylbenzene	ND		ug/l	25	7.0	10
sec-Butylbenzene	ND		ug/l	25	7.0	10
tert-Butylbenzene	ND		ug/l	25	7.0	10
o-Chlorotoluene	ND		ug/l	25	7.0	10
p-Chlorotoluene	ND		ug/l	25	7.0	10
1,2-Dibromo-3-chloropropane	ND		ug/l	25	7.0	10
Hexachlorobutadiene	ND		ug/l	25	7.0	10
Isopropylbenzene	ND		ug/l	25	7.0	10
p-Isopropyltoluene	ND		ug/l	25	7.0	10
Naphthalene	ND		ug/l	25	7.0	10

Project Name: WARBURTON DRY CLEANERS SITE **Lab Number:** L2432304

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432304-02 D
Client ID: MW-1D-20240610
Sample Location: YONKERS, NY

Date Collected: 06/10/24 10:07
Date Received: 06/10/24
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	25	7.0	10
1,2,3-Trichlorobenzene	ND		ug/l	25	7.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	7.0	10
1,3,5-Trimethylbenzene	ND		ug/l	25	7.0	10
1,2,4-Trimethylbenzene	ND		ug/l	25	7.0	10
1,4-Dioxane	ND		ug/l	2500	610	10
p-Diethylbenzene	ND		ug/l	20	7.0	10
p-Ethyltoluene	ND		ug/l	20	7.0	10
1,2,4,5-Tetramethylbenzene	ND		ug/l	20	5.4	10
Ethyl ether	ND		ug/l	25	7.0	10
trans-1,4-Dichloro-2-butene	ND		ug/l	25	7.0	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	97		70-130

Project Name: WARBURTON DRY CLEANERS SITE **Lab Number:** L2432304

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432304-03
Client ID: MW-3-20240610
Sample Location: YONKERS, NY

Date Collected: 06/10/24 11:45
Date Received: 06/10/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 06/14/24 00:59
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: WARBURTON DRY CLEANERS SITE **Lab Number:** L2432304

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432304-03 Date Collected: 06/10/24 11:45

Client ID: MW-3-20240610 Date Received: 06/10/24

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: WARBURTON DRY CLEANERS SITE **Lab Number:** L2432304

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432304-03 Date Collected: 06/10/24 11:45

Client ID: MW-3-20240610 Date Received: 06/10/24

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	97		70-130

Project Name: WARBURTON DRY CLEANERS SITE **Lab Number:** L2432304

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432304-04
Client ID: MW-5-20240610
Sample Location: YONKERS, NY

Date Collected: 06/10/24 12:20
Date Received: 06/10/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 06/14/24 01:22
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	0.36	J	ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: WARBURTON DRY CLEANERS SITE **Lab Number:** L2432304

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432304-04 Date Collected: 06/10/24 12:20

Client ID: MW-5-20240610 Date Received: 06/10/24

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: WARBURTON DRY CLEANERS SITE **Lab Number:** L2432304

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432304-04 Date Collected: 06/10/24 12:20

Client ID: MW-5-20240610 Date Received: 06/10/24

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	98		70-130

Project Name: WARBURTON DRY CLEANERS SITE **Lab Number:** L2432304

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432304-05 Date Collected: 06/10/24 12:00
Client ID: DUP-20240610 Date Received: 06/10/24
Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 06/14/24 01:46
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	0.91	J	ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	2.8		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: WARBURTON DRY CLEANERS SITE **Lab Number:** L2432304

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432304-05 Date Collected: 06/10/24 12:00

Client ID: DUP-20240610 Date Received: 06/10/24

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: WARBURTON DRY CLEANERS SITE **Lab Number:** L2432304

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432304-05 Date Collected: 06/10/24 12:00

Client ID: DUP-20240610 Date Received: 06/10/24

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	96		70-130

Project Name: WARBURTON DRY CLEANERS SITE **Lab Number:** L2432304

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432304-06
Client ID: TRIP BLANK
Sample Location: YONKERS, NY

Date Collected: 06/10/24 00:00
Date Received: 06/10/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 06/14/24 02:10
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: WARBURTON DRY CLEANERS SITE **Lab Number:** L2432304

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432304-06 Date Collected: 06/10/24 00:00

Client ID: TRIP BLANK Date Received: 06/10/24

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: WARBURTON DRY CLEANERS SITE **Lab Number:** L2432304

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432304-06 Date Collected: 06/10/24 00:00

Client ID: TRIP BLANK Date Received: 06/10/24

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	98		70-130

Project Name: WARBURTON DRY CLEANERS SITE **Lab Number:** L2432304

Project Number: 2221378 **Report Date:** 06/20/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/13/24 19:00
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1934333-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: WARBURTON DRY CLEANERS SITE **Lab Number:** L2432304

Project Number: 2221378 **Report Date:** 06/20/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/13/24 19:00
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1934333-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.17
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: WARBURTON DRY CLEANERS SITE **Lab Number:** L2432304

Project Number: 2221378 **Report Date:** 06/20/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/13/24 19:00
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1934333-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	118		70-130
Dibromofluoromethane	94		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: WARBURTON DRY CLEANERS SITE
Project Number: 2221378
Lab Number: L2432304
Report Date: 06/20/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1934333-3 WG1934333-4								
Methylene chloride	91		98		70-130	7		20
1,1-Dichloroethane	100		110		70-130	10		20
Chloroform	93		95		70-130	2		20
Carbon tetrachloride	89		89		63-132	0		20
1,2-Dichloropropane	100		110		70-130	10		20
Dibromochloromethane	92		99		63-130	7		20
1,1,2-Trichloroethane	97		100		70-130	3		20
Tetrachloroethene	92		93		70-130	1		20
Chlorobenzene	95		99		75-130	4		20
Trichlorofluoromethane	81		82		62-150	1		20
1,2-Dichloroethane	96		100		70-130	4		20
1,1,1-Trichloroethane	94		96		67-130	2		20
Bromodichloromethane	91		97		67-130	6		20
trans-1,3-Dichloropropene	100		110		70-130	10		20
cis-1,3-Dichloropropene	93		100		70-130	7		20
1,1-Dichloropropene	97		99		70-130	2		20
Bromoform	88		95		54-136	8		20
1,1,2,2-Tetrachloroethane	120		130		67-130	8		20
Benzene	97		100		70-130	3		20
Toluene	100		100		70-130	0		20
Ethylbenzene	96		99		70-130	3		20
Chloromethane	84		87		64-130	4		20
Bromomethane	**19**	Q	**22**	Q	39-139	15		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WARBURTON DRY CLEANERS SITE

Project Number: 2221378

Lab Number: L2432304

Report Date: 06/20/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1934333-3 WG1934333-4								
Vinyl chloride	100		100		55-140	0		20
Chloroethane	71		70		55-138	1		20
1,1-Dichloroethene	88		91		61-145	3		20
trans-1,2-Dichloroethene	88		94		70-130	7		20
Trichloroethene	79		82		70-130	4		20
1,2-Dichlorobenzene	97		100		70-130	3		20
1,3-Dichlorobenzene	97		100		70-130	3		20
1,4-Dichlorobenzene	95		100		70-130	5		20
Methyl tert butyl ether	88		100		63-130	13		20
p/m-Xylene	90		90		70-130	0		20
o-Xylene	85		90		70-130	6		20
cis-1,2-Dichloroethene	88		94		70-130	7		20
Dibromomethane	88		94		70-130	7		20
1,2,3-Trichloropropane	99		120		64-130	19		20
Acrylonitrile	100		120		70-130	18		20
Styrene	90		95		70-130	5		20
Dichlorodifluoromethane	75		77		36-147	3		20
Acetone	92		110		58-148	18		20
Carbon disulfide	91		93		51-130	2		20
2-Butanone	100		130		63-138	**26**	Q	20
Vinyl acetate	**180**	Q	**190**	Q	70-130	5		20
4-Methyl-2-pentanone	110		120		59-130	9		20
2-Hexanone	120		130		57-130	8		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WARBURTON DRY CLEANERS SITE

Project Number: 2221378

Lab Number: L2432304

Report Date: 06/20/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1934333-3 WG1934333-4								
Bromochloromethane	85		90		70-130	6		20
2,2-Dichloropropane	100		110		63-133	10		20
1,2-Dibromoethane	97		100		70-130	3		20
1,3-Dichloropropane	100		110		70-130	10		20
1,1,1,2-Tetrachloroethane	91		97		64-130	6		20
Bromobenzene	98		110		70-130	12		20
n-Butylbenzene	94		98		53-136	4		20
sec-Butylbenzene	100		110		70-130	10		20
tert-Butylbenzene	96		100		70-130	4		20
o-Chlorotoluene	110		120		70-130	9		20
p-Chlorotoluene	110		110		70-130	0		20
1,2-Dibromo-3-chloropropane	90		99		41-144	10		20
Hexachlorobutadiene	97		100		63-130	3		20
Isopropylbenzene	95		99		70-130	4		20
p-Isopropyltoluene	100		100		70-130	0		20
Naphthalene	82		94		70-130	14		20
n-Propylbenzene	110		120		69-130	9		20
1,2,3-Trichlorobenzene	83		95		70-130	13		20
1,2,4-Trichlorobenzene	89		97		70-130	9		20
1,3,5-Trimethylbenzene	100		110		64-130	10		20
1,2,4-Trimethylbenzene	100		110		70-130	10		20
1,4-Dioxane	70		84		56-162	18		20
p-Diethylbenzene	95		100		70-130	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: WARBURTON DRY CLEANERS SITE

Project Number: 2221378

Lab Number: L2432304

Report Date: 06/20/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1934333-3 WG1934333-4								
p-Ethyltoluene	100		110		70-130	10		20
1,2,4,5-Tetramethylbenzene	84		89		70-130	6		20
Ethyl ether	88		93		59-134	6		20
trans-1,4-Dichloro-2-butene	72		86		70-130	18		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		106		70-130
Toluene-d8	108		106		70-130
4-Bromofluorobenzene	118		120		70-130
Dibromofluoromethane	94		93		70-130

METALS

Project Name: WARBURTON DRY CLEANERS SITE
Lab Number: L2432304
Project Number: 2221378
Report Date: 06/20/24

SAMPLE RESULTS

Lab ID: L2432304-01
Client ID: MW-1-20240610
Sample Location: YONKERS, NY
Date Collected: 06/10/24 10:57
Date Received: 06/10/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Hardness (by calculation) - Mansfield Lab											
Hardness	333.7		mg/l	0.5400	NA	1	06/14/24 17:57	06/18/24 15:03	EPA 3005A	1,6020B	NTB

Project Name: WARBURTON DRY CLEANERS SITE
Lab Number: L2432304
Project Number: 2221378
Report Date: 06/20/24

SAMPLE RESULTS

Lab ID: L2432304-02
Client ID: MW-1D-20240610
Sample Location: YONKERS, NY
Date Collected: 06/10/24 10:07
Date Received: 06/10/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Hardness (by calculation) - Mansfield Lab											
Hardness	495.1		mg/l	0.5400	NA	1	06/14/24 17:57	06/18/24 15:08	EPA 3005A	1,6020B	NTB

Project Name: WARBURTON DRY CLEANERS SITE
Lab Number: L2432304
Project Number: 2221378
Report Date: 06/20/24

SAMPLE RESULTS

Lab ID: L2432304-03
Client ID: MW-3-20240610
Sample Location: YONKERS, NY
Date Collected: 06/10/24 11:45
Date Received: 06/10/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Hardness (by calculation) - Mansfield Lab											
Hardness	325.7		mg/l	0.5400	NA	1	06/14/24 17:57	06/18/24 15:12	EPA 3005A	1,6020B	NTB

Project Name: WARBURTON DRY CLEANERS SITE
Lab Number: L2432304
Project Number: 2221378
Report Date: 06/20/24

SAMPLE RESULTS

Lab ID: L2432304-04
Client ID: MW-5-20240610
Sample Location: YONKERS, NY
Date Collected: 06/10/24 12:20
Date Received: 06/10/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Hardness (by calculation) - Mansfield Lab											
Hardness	361.5		mg/l	0.5400	NA	1	06/14/24 17:57	06/18/24 15:33	EPA 3005A	1,6020B	NTB

Project Name: WARBURTON DRY CLEANERS SITE
Lab Number: L2432304
Project Number: 2221378
Report Date: 06/20/24

SAMPLE RESULTS

Lab ID: L2432304-05
Client ID: DUP-20240610
Sample Location: YONKERS, NY
Date Collected: 06/10/24 12:00
Date Received: 06/10/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Hardness (by calculation) - Mansfield Lab											
Hardness	367.5		mg/l	0.5400	NA	1	06/14/24 17:57	06/18/24 15:38	EPA 3005A	1,6020B	NTB

Project Name: WARBURTON DRY CLEANERS SITE
Project Number: 2221378
Lab Number: L2432304
Report Date: 06/20/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness (by calculation) - Mansfield Lab for sample(s): 01-05 Batch: WG1934060-1										
Hardness	ND		mg/l	0.5400	NA	1	06/14/24 17:57	06/18/24 14:31	1,6020B	NTB

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: WARBURTON DRY CLEANERS SITE

Project Number: 2221378

Lab Number: L2432304

Report Date: 06/20/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Hardness (by calculation) - Mansfield Lab	Associated sample(s): 01-05		Batch: WG1934060-2					
Hardness	108		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: WARBURTON DRY CLEANERS SITE
Project Number: 2221378
Lab Number: L2432304
Report Date: 06/20/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Hardness (by calculation) - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1934060-3 QC Sample: L2432352-01 Client ID: MS Sample												
Hardness	62.10	66.2	132.2	106		-	-		75-125	-		20

INORGANICS
&
MISCELLANEOUS

Project Name: WARBURTON DRY CLEANERS SITE
Project Number: 2221378
Lab Number: L2432304
Report Date: 06/20/24

SAMPLE RESULTS

Lab ID: L2432304-01
Client ID: MW-1-20240610
Sample Location: YONKERS, NY
Sample Depth:
Matrix: Water

Date Collected: 06/10/24 10:57
Date Received: 06/10/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	151.		mg CaCO3/L	2.00	NA	1	-	06/15/24 04:48	121,2320B	MRM
Nitrogen, Nitrate/Nitrite	ND		mg/l	0.10	0.046	1	-	06/12/24 15:51	121,4500NO3-F	MRM
Total Organic Carbon	0.66		mg/l	0.50	0.09	1	-	06/13/24 02:51	1,9060A	DEW
Iron, Ferrous	0.080	J	mg/l	0.50	0.056	1	-	06/11/24 05:33	121,3500FE-B	CAR
Anions by Ion Chromatography - Westborough Lab										
Chloride	464.		mg/l	12.5	2.10	25	-	06/13/24 21:46	44,300.0	AVT
Sulfate	7.44		mg/l	1.00	0.454	1	-	06/13/24 17:02	44,300.0	AVT

Project Name: WARBURTON DRY CLEANERS SITE
Project Number: 2221378
Lab Number: L2432304
Report Date: 06/20/24

SAMPLE RESULTS

Lab ID: L2432304-02
Client ID: MW-1D-20240610
Sample Location: YONKERS, NY
Sample Depth:
Matrix: Water

Date Collected: 06/10/24 10:07
Date Received: 06/10/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	110.		mg CaCO3/L	2.00	NA	1	-	06/15/24 04:52	121,2320B	MRM
Nitrogen, Nitrate/Nitrite	6.0		mg/l	0.10	0.046	1	-	06/12/24 15:52	121,4500NO3-F	MRM
Total Organic Carbon	0.33	J	mg/l	0.50	0.09	1	-	06/13/24 02:51	1,9060A	DEW
Iron, Ferrous	0.16	J	mg/l	0.50	0.056	1	-	06/11/24 05:33	121,3500FE-B	CAR
Anions by Ion Chromatography - Westborough Lab										
Chloride	406.		mg/l	12.5	2.10	25	-	06/13/24 21:57	44,300.0	AVT
Sulfate	49.1		mg/l	1.00	0.454	1	-	06/13/24 17:13	44,300.0	AVT

Project Name: WARBURTON DRY CLEANERS SITE
Project Number: 2221378
Lab Number: L2432304
Report Date: 06/20/24

SAMPLE RESULTS

Lab ID: L2432304-03
Client ID: MW-3-20240610
Sample Location: YONKERS, NY
Sample Depth:
Matrix: Water

Date Collected: 06/10/24 11:45
Date Received: 06/10/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	290.		mg CaCO3/L	2.00	NA	1	-	06/15/24 04:56	121,2320B	MRM
Nitrogen, Nitrate/Nitrite	5.5		mg/l	0.10	0.046	1	-	06/12/24 15:54	121,4500NO3-F	MRM
Total Organic Carbon	2.1		mg/l	0.50	0.09	1	-	06/13/24 02:51	1,9060A	DEW
Iron, Ferrous	0.070	J	mg/l	0.50	0.056	1	-	06/11/24 05:33	121,3500FE-B	CAR
Anions by Ion Chromatography - Westborough Lab										
Chloride	4.06		mg/l	0.500	0.083	1	-	06/13/24 23:02	44,300.0	AVT
Sulfate	40.2		mg/l	1.00	0.454	1	-	06/13/24 23:02	44,300.0	AVT

Project Name: WARBURTON DRY CLEANERS SITE
Project Number: 2221378
Lab Number: L2432304
Report Date: 06/20/24

SAMPLE RESULTS

Lab ID: L2432304-04
Client ID: MW-5-20240610
Sample Location: YONKERS, NY
Sample Depth:
Matrix: Water

Date Collected: 06/10/24 12:20
Date Received: 06/10/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	169.		mg CaCO3/L	2.00	NA	1	-	06/15/24 05:03	121,2320B	MRM
Nitrogen, Nitrate/Nitrite	6.5		mg/l	0.10	0.046	1	-	06/12/24 15:55	121,4500NO3-F	MRM
Total Organic Carbon	0.87		mg/l	0.50	0.09	1	-	06/13/24 02:51	1,9060A	DEW
Iron, Ferrous	ND		mg/l	0.50	0.056	1	-	06/11/24 05:33	121,3500FE-B	CAR
Anions by Ion Chromatography - Westborough Lab										
Chloride	347.		mg/l	12.5	2.10	25	-	06/13/24 22:07	44,300.0	AVT
Sulfate	55.9		mg/l	1.00	0.454	1	-	06/13/24 17:34	44,300.0	AVT

Project Name: WARBURTON DRY CLEANERS SITE
Project Number: 2221378
Lab Number: L2432304
Report Date: 06/20/24

SAMPLE RESULTS

Lab ID: L2432304-05
Client ID: DUP-20240610
Sample Location: YONKERS, NY
Sample Depth:
Matrix: Water

Date Collected: 06/10/24 12:00
Date Received: 06/10/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	152.		mg CaCO3/L	2.00	NA	1	-	06/15/24 05:08	121,2320B	MRM
Nitrogen, Nitrate/Nitrite	2.6		mg/l	0.10	0.046	1	-	06/12/24 15:56	121,4500NO3-F	MRM
Total Organic Carbon	0.62		mg/l	0.50	0.09	1	-	06/13/24 02:51	1,9060A	DEW
Iron, Ferrous	0.13	J	mg/l	0.50	0.056	1	-	06/11/24 05:34	121,3500FE-B	CAR
Anions by Ion Chromatography - Westborough Lab										
Chloride	457.		mg/l	12.5	2.10	25	-	06/13/24 17:56	44,300.0	AVT
Sulfate	26.8		mg/l	1.00	0.454	1	-	06/13/24 17:45	44,300.0	AVT

Project Name: WARBURTON DRY CLEANERS SITE **Lab Number:** L2432304

Project Number: 2221378 **Report Date:** 06/20/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1932401-1										
Iron, Ferrous	ND		mg/l	0.50	0.056	1	-	06/11/24 05:31	121,3500FE-B	CAR
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1933303-1										
Nitrogen, Nitrate/Nitrite	ND		mg/l	0.10	0.046	1	-	06/12/24 12:50	121,4500NO3-F	MRM
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1933621-1										
Total Organic Carbon	ND		mg/l	0.50	0.09	1	-	06/13/24 02:51	1,9060A	DEW
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-05 Batch: WG1934149-1										
Chloride	0.148	J	mg/l	0.500	0.083	1	-	06/13/24 16:40	44,300.0	AVT
Sulfate	ND		mg/l	1.00	0.454	1	-	06/13/24 16:40	44,300.0	AVT
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1934446-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	06/15/24 03:59	121,2320B	MRM

Lab Control Sample Analysis

Batch Quality Control

Project Name: WARBURTON DRY CLEANERS SITE

Project Number: 2221378

Lab Number: L2432304

Report Date: 06/20/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1932401-2								
Iron, Ferrous	92		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1933303-2								
Nitrogen, Nitrate/Nitrite	108		-		90-110	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1933621-2								
Total Organic Carbon	101		-		90-110	-		
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-05 Batch: WG1934149-2								
Chloride	106		-		90-110	-		
Sulfate	104		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG1934446-2								
Alkalinity, Total	105		-		90-110	-		10

Matrix Spike Analysis
Batch Quality Control

Project Name: WARBURTON DRY CLEANERS SITE
Project Number: 2221378
Lab Number: L2432304
Report Date: 06/20/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1932401-4 QC Sample: L2432304-01 Client ID: MW-1-20240610												
Iron, Ferrous	0.080J	1	0.99	99		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1933303-4 QC Sample: L2431872-01 Client ID: MS Sample												
Nitrogen, Nitrate/Nitrite	1.1	4	4.9	95		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1933621-4 QC Sample: L2432304-01 Client ID: MW-1-20240610												
Total Organic Carbon	0.66	16	19	116		-	-		80-120	-		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1934149-3 QC Sample: L2432304-03 Client ID: MW-3-20240610												
Chloride	4.06	4	8.21	104		-	-		90-110	-		18
Sulfate	40.2	8	47.4	90		-	-		90-110	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1934446-4 QC Sample: L2432271-02 Client ID: MS Sample												
Alkalinity, Total	2960	500	3010	**9**	Q	-	-		86-116	-		10

Lab Duplicate Analysis

Batch Quality Control

Project Name: WARBURTON DRY CLEANERS SITE

Project Number: 2221378

Lab Number: L2432304

Report Date: 06/20/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1932401-3 QC Sample: L2432304-01 Client ID: MW-1-20240610						
Iron, Ferrous	0.080J	0.10J	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1933303-3 QC Sample: L2431872-01 Client ID: DUP Sample						
Nitrogen, Nitrate/Nitrite	1.1	1.1	mg/l	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1933621-3 QC Sample: L2432304-01 Client ID: MW-1-20240610						
Total Organic Carbon	0.66	0.58	mg/l	13		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1934149-4 QC Sample: L2432304-03 Client ID: MW-3-20240610						
Chloride	4.06	4.01	mg/l	1		18
Sulfate	40.2	39.9	mg/l	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1934446-3 QC Sample: L2432271-02 Client ID: DUP Sample						
Alkalinity, Total	2960	2980	mg CaCO3/L	0		10

Project Name: WARBURTON DRY CLEANERS SITE
Project Number: 2221378

Lab Number: L2432304
Report Date: 06/20/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2432304-01A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2432304-01B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2432304-01C	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2432304-01D	Vial H2SO4 preserved	A	NA		2.6	Y	Absent		TOC-9060(28)
L2432304-01E	Vial H2SO4 preserved	A	NA		2.6	Y	Absent		TOC-9060(28)
L2432304-01F	Vial H2SO4 preserved	A	NA		2.6	Y	Absent		TOC-9060(28)
L2432304-01G	Plastic 250ml unpreserved/No Headspace	A	NA		2.6	Y	Absent		ALK-T-2320(14)
L2432304-01H	Plastic 250ml unpreserved	A	7	7	2.6	Y	Absent		SO4-300(28),CL-300(28),FERROUS(1)
L2432304-01I	Plastic 250ml HNO3 preserved	A	<2	<2	2.6	Y	Absent		HARDT-6020(180)
L2432304-01J	Plastic 250ml H2SO4 preserved	A	<2	<2	2.6	Y	Absent		NO3/NO2-4500(28)
L2432304-01K	Plastic 250ml Zn Acetate/NaOH preserved	A	>9	>9	2.6	Y	Absent		SUB-SULFIDE(7)
L2432304-01L	Plastic 250ml Zn Acetate/NaOH preserved	A	>9	>9	2.6	Y	Absent		SUB-SULFIDE(7)
L2432304-02A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2432304-02B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2432304-02C	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2432304-02D	Vial H2SO4 preserved	A	NA		2.6	Y	Absent		TOC-9060(28)
L2432304-02E	Vial H2SO4 preserved	A	NA		2.6	Y	Absent		TOC-9060(28)
L2432304-02F	Vial H2SO4 preserved	A	NA		2.6	Y	Absent		TOC-9060(28)
L2432304-02G	Plastic 250ml unpreserved/No Headspace	A	NA		2.6	Y	Absent		ALK-T-2320(14)
L2432304-02H	Plastic 250ml unpreserved	A	7	7	2.6	Y	Absent		SO4-300(28),CL-300(28),FERROUS(1)
L2432304-02I	Plastic 250ml HNO3 preserved	A	<2	<2	2.6	Y	Absent		HARDT-6020(180)
L2432304-02J	Plastic 250ml H2SO4 preserved	A	<2	<2	2.6	Y	Absent		NO3/NO2-4500(28)
L2432304-02K	Plastic 250ml Zn Acetate/NaOH preserved	A	>9	>9	2.6	Y	Absent		SUB-SULFIDE(7)

*Values in parentheses indicate holding time in days

Project Name: WARBURTON DRY CLEANERS SITE
Project Number: 2221378

Lab Number: L2432304
Report Date: 06/20/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2432304-02L	Plastic 250ml Zn Acetate/NaOH preserved	A	>9	>9	2.6	Y	Absent		SUB-SULFIDE(7)
L2432304-03A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2432304-03B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2432304-03C	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2432304-03D	Vial H2SO4 preserved	A	NA		2.6	Y	Absent		TOC-9060(28)
L2432304-03E	Vial H2SO4 preserved	A	NA		2.6	Y	Absent		TOC-9060(28)
L2432304-03F	Vial H2SO4 preserved	A	NA		2.6	Y	Absent		TOC-9060(28)
L2432304-03G	Plastic 250ml unpreserved/No Headspace	A	NA		2.6	Y	Absent		ALK-T-2320(14)
L2432304-03H	Plastic 250ml unpreserved	A	7	7	2.6	Y	Absent		SO4-300(28),CL-300(28),FERROUS(1)
L2432304-03I	Plastic 250ml HNO3 preserved	A	<2	<2	2.6	Y	Absent		HARDT-6020(180)
L2432304-03J	Plastic 250ml H2SO4 preserved	A	<2	<2	2.6	Y	Absent		NO3/NO2-4500(28)
L2432304-03K	Plastic 250ml Zn Acetate/NaOH preserved	A	>9	>9	2.6	Y	Absent		SUB-SULFIDE(7)
L2432304-03L	Plastic 250ml Zn Acetate/NaOH preserved	A	>9	>9	2.6	Y	Absent		SUB-SULFIDE(7)
L2432304-04A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2432304-04B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2432304-04C	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2432304-04D	Vial H2SO4 preserved	A	NA		2.6	Y	Absent		TOC-9060(28)
L2432304-04E	Vial H2SO4 preserved	A	NA		2.6	Y	Absent		TOC-9060(28)
L2432304-04F	Vial H2SO4 preserved	A	NA		2.6	Y	Absent		TOC-9060(28)
L2432304-04G	Plastic 250ml unpreserved/No Headspace	A	NA		2.6	Y	Absent		ALK-T-2320(14)
L2432304-04H	Plastic 250ml unpreserved	A	7	7	2.6	Y	Absent		SO4-300(28),CL-300(28),FERROUS(1)
L2432304-04I	Plastic 250ml HNO3 preserved	A	<2	<2	2.6	Y	Absent		HARDT-6020(180)
L2432304-04J	Plastic 250ml H2SO4 preserved	A	<2	<2	2.6	Y	Absent		NO3/NO2-4500(28)
L2432304-04K	Plastic 250ml Zn Acetate/NaOH preserved	A	>9	>9	2.6	Y	Absent		SUB-SULFIDE(7)
L2432304-04L	Plastic 250ml Zn Acetate/NaOH preserved	A	>9	>9	2.6	Y	Absent		SUB-SULFIDE(7)
L2432304-05A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2432304-05B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2432304-05C	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: WARBURTON DRY CLEANERS SITE
Project Number: 2221378

Lab Number: L2432304
Report Date: 06/20/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2432304-05D	Vial H2SO4 preserved	A	NA		2.6	Y	Absent		TOC-9060(28)
L2432304-05E	Vial H2SO4 preserved	A	NA		2.6	Y	Absent		TOC-9060(28)
L2432304-05F	Vial H2SO4 preserved	A	NA		2.6	Y	Absent		TOC-9060(28)
L2432304-05G	Plastic 250ml unpreserved/No Headspace	A	NA		2.6	Y	Absent		ALK-T-2320(14)
L2432304-05H	Plastic 250ml unpreserved	A	7	7	2.6	Y	Absent		SO4-300(28),CL-300(28),FERROUS(1)
L2432304-05I	Plastic 250ml HNO3 preserved	A	<2	<2	2.6	Y	Absent		HARDT-6020(180)
L2432304-05J	Plastic 250ml H2SO4 preserved	A	<2	<2	2.6	Y	Absent		NO3/NO2-4500(28)
L2432304-05K	Plastic 250ml Zn Acetate/NaOH preserved	A	>9	>9	2.6	Y	Absent		SUB-SULFIDE(7)
L2432304-05L	Plastic 250ml Zn Acetate/NaOH preserved	A	>9	>9	2.6	Y	Absent		SUB-SULFIDE(7)
L2432304-06A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L2432304-06B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	WARBURTON DRY CLEANERS SITE	**Lab Number:**	L2432304
Project Number:	2221378	**Report Date:**	06/20/24

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	WARBURTON DRY CLEANERS SITE	**Lab Number:**	L2432304
Project Number:	2221378	**Report Date:**	06/20/24

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	WARBURTON DRY CLEANERS SITE	**Lab Number:**	L2432304
Project Number:	2221378	**Report Date:**	06/20/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	WARBURTON DRY CLEANERS SITE	**Lab Number:**	L2432304
Project Number:	2221378	**Report Date:**	06/20/24

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 6/11/24

ALPHA Job #: L2432304

Client Information

Client: LaBella Associates
Address: 45 Mainstreet, Brooklyn, NY 11204
Phone:
Fax:
Email: cchu@labellapc.com

Project Information

Project Name: WARBURTON DRY CLEANERS SITE
Project Location: YONKERS, NY
Project #: 2221378
(Use Project name as Project #) ☐
Project Manager: CYNTHIA CHU
ALPHAQuote #:

Turn-Around Time

Standard ☐ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☑ ASP-B
☑ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other

Billing Information

☐ Same as Client Info
PO #

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☑ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Alkalinity SM 2320	Chloride by IC - EPA 300.0	Sulfide by SM4500	Sulfate EPA 300.0	Ferrous Iron - SM 3500	TCL Volatiles EPA 8260	Total Organic Carbon 9060	Total Hardness by 6010B	Sample Specific Comments	Total Bottle
32304-01	MW-1-20240610	06/10	10:57	W	TBH	X	X	X	X	X	X	X	X		
02	MW-10-20240610		10:07			X	X	X	X	X	X	X	X		
03	MW-3-20240610		11:45			X	X	X	X	X	X	X	X		
04	MW-5-20240610		12:20			X	X	X	X	X	X	X	X		
05	DUP-20240610		12:00			X	X	X	X	X	X	X	X		
06	TRIP BLANK										X				

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type								
Preservative								

Relinquished By:	Date/Time	Received By:	Date/Time
	6/10/24 13:40		6/10 13:40
	6/10 18:20		6/10/24 18:20
	6/10/24		6/10 2200
	6/11 0830		6/11/24 0030

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 2

Date Rec'd in Lab: 6/11/24

ALPHA Job #: L2432304

Client Information
Client:
Address:
SAA
Phone:
Fax:
Email:

Project Information
Project Name:
Project Location:
Project # SAA
(Use Project name as Project #) ☐
Project Manager:
ALPHAQuote #:

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☒ EQuIS (1 File) ☒ EQuIS (4 File)
☐ Other

Billing Information
☐ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	NO3/NO2 combined analysis	Total Bottle	Sample Specific Comments
32304-01	MW-1-20240610	6/10	10:57	W	TBH	X		
02	MW-1D-20240610		10:07			X		
03	MW-3-20240610		11:45			X		
04	MW-5-20240610		12:20			X		
05	DUP-20240610	↓		↓	↓	X		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
	6/10/24 1340		6/10 1340
	6/10 1620		6/10/24 1900
	6/10/24		6/10 2200
	6/11 0030		6/11/24 0030

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Pace Analytical Services, LLC-Fairfield

ANALYTICAL RESULTS

LEVEL II DELIVERABLES FORMAT

Work Order Number: 24F0844

Pace - Alpha Analytical, Westborough, MA

Project: L2432304

Sudip Pradhan
Laboratory Director

All Results meet the requirements of the National Environmental Laboratory Accreditation Conference and/or State specific certifications as applicable.

Report Date: Jun 18, 2024

1275 Bloomfield Ave., Bldg. 6, Fairfield, New Jersey 07004
(t) 973.227.0422 (f) 973.227.2813 (w) www.pacelabs.com

NELAC National Environmental Laboratory Accreditation Conference
NJDEP #07010 / NYDOH #11634 / PADEP #68-02903

sections 1 2 3 4 5 6 7 8

CONTENTS

PEOPLE ADVANCING SCIENCE

Pace Analytical Services, LLC-Fairfield

Sample Summary

Work Order: 24F0844

Client: Pace - Alpha Analytical, Westborough, MA

Project: L2432304

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1-20240610	24F0844-01	Water	06/10/2024 10:57	06/12/2024 08:10
MW-1D-20240610	24F0844-02	Water	06/10/2024 10:07	06/12/2024 08:10
MW-3-20240610	24F0844-03	Water	06/10/2024 11:45	06/12/2024 08:10
MW-5-20240610	24F0844-04	Water	06/10/2024 12:20	06/12/2024 08:10
DUP-20240610	24F0844-05	Water	06/10/2024 12:00	06/12/2024 08:10

Pace
Pace Analytical Services-Fairfield
www.pacelabs.com

Subcontract Chain of Custody

APL/ Pace Fairfield
1275 Bloomfield Ave.
Bldg. 6
Fairfield, NJ 07004

24F0844

Pace - Alpha Analytical, Westborough, MA
L2432304

Alpha Job Number
L2432304

Client Information

Client: Alpha Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Phone: 201.428.2601
Email: Nicole.Galamb@pacelabs.com

Project Information

Project Location: NY
Project Manager: Nicole Galamb

Turnaround & Deliverables Information

Due Date:
Deliverables:

...ents/Report Limits

State/Federal Program:
Regulatory Criteria: NY-AWQS

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2432304

Report to include Method Blank, LCS/LCSD:

Additional Comments: Invoices to: invoices@pacelabs.coupahost.com Reports to: west.subreports@pacelabs.com

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
	MW-1-20240610	06-10-24 10:57	WATER	Sulfide	
	MW-1D-20240610	06-10-24 10:07	WATER	Sulfide	
	MW-3-20240610	06-10-24 11:45	WATER	Sulfide	
	MW-5-20240610	06-10-24 12:20	WATER	Sulfide	
	DUP-20240610	06-10-24 12:00	WATER	Sulfide	

	Relinquished By:	Date/Time:	Received By:	Date/Time:
2.5°C	[signature]	6/11/24	[signature]	6/11 1800
	[signature]	6/11/24 2200	[signature]	6/11/24 2221
	[signature]	6/11/24	[signature]	6/12/24 0608
Form No: AL_subcoc	[signature]	6/12/24 0805	[signature]	6/12/24 0810

2.

DC#_Title: ENV-FRM-FAIR-007 v01_Sample Condition Upon Receipt Form
Effective Date: 7/26/2023

24F0844

Sample Condition Upon Receipt Form (SCUR)

Pace ANALYTICAL SERVICES

Affix Sample Label Here

Date and Initials of person:
Examining contents: 6/12 MR
Label: 6/12 MR
Deliver to location:
pH: 6/12 MR

Thermometer Used: IR03 Date: 6/12/24 Time: 0310 Initials: MR

State of Origin: NJ

Cooler #1 Temp.°C 2.9 **(Visual)** -0.4 **(Correction Factor)** 2.5 **(Actual)** ☐ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ Other

Tracking #

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals intact:** ☐ Yes ☑ No **Ice:** (Wet) Blue Melted None

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Samples were collected by Pace employee ☐ Yes ☑ No ☐ N/A

		Comments:
Chain of Custody Present	☑Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☑Yes ☐ No ☐ N/A	
Relinquished Signature on COC	☑Yes ☐ No ☐ N/A	
Sampler Name and Signature on COC	☑Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☑Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐Yes ☑ No ☐ N/A	
Sufficient Volume	☑Yes ☐ No ☐ N/A	
Correct Containers Used	☑Yes ☐ No ☐ N/A	
Containers Intact	☑Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☑Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☑Yes ☐ No ☐ N/A	Preservation Information: Preservative:
All Containers needing preservation are found to be in compliance with EPA recommendation:	☑Yes ☐ No ☐ N/A	Lot #/Trace #: Date: Time: Initials:
Exceptions: Vials, Microbiology, O&G, Metals		
Headspace in VOA Vials? (>6mm):	☐Yes ☐ No ☑N/A	
Trip Blank Present:	☐Yes ☐ No ☑N/A	

Additional Login Comments:

Client notification/ Resolution

Person Contacted: Date/Time:

Comments/Resolution:

Qualtrax ID: 188127 Pace® Analytical Services, LLC Page 1 of 1

Pace Analytical Services, LLC-Fairfield
Methodology Summary

Extractable Petroleum Hydrocarbons:

Gas Chromatography/Flame Ionization Detector

New Jersey Department of Environmental Protection Site Remediation Program Extractable Petroleum Hydrocarbons Methodology (Version 3.0).
USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 8015D or NJDEP Office of Quality Assurance Quantitation of Semi-Volatile Petroleum Products in Water, Soil and Sediment OQA-QAM-025, Revision 6.

Metals:

Inductively-Coupled Plasma Atomic Emission Spectrometry or Inductively-Coupled Plasma Mass Spectroscopy

Wastewater and Groundwater Samples: USEPA Methods for the Analysis of Water and Wastes, Method 200.7, Method 200.8.
Soil Samples: USEPA Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 6010D.

Mercury:

Cold Vapor Atomic Absorption Spectrometry

Wastewater and Groundwater Samples: USEPA Methods for the Analysis of Water and Wastes, Method 245.1.
Soil Samples: USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 7471B.

Volatile Organic Compounds:

Purge and Trap Gas Chromatography/Mass Spectroscopy

Drinking Water Samples: USEPA Methods for the Determination of Organic Compounds in Drinking Water, Method 524.2.
Wastewater Samples: USEPA Methods for the Analysis of Water and Wastes, Method 624.1.
Soil and Groundwater Samples: USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update VI, Method 8260D.

Semi-Volatile Organic Compounds:

Gas Chromatography/Mass Spectroscopy

Wastewater Samples: USEPA Methods for the Analysis of Water and Wastes, Method 625.1.
Soil and Groundwater Samples: USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update VI, Method 8270E.

PFAS Compounds:

Liquid Chromatography/Tandem Mass Spectroscopy

Drinking Water Samples: USEPA Methods for the Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS), Method 537 (v1.1).

Pesticides:

Gas Chromatography/Electron Capture Detector

Wastewater Samples: USEPA Methods for the Analysis of Water and Wastes, Method 608.3.
Soil and Groundwater Samples: USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 8081B.

Polychlorinated Biphenyls (PCBs):

Gas Chromatography/Electron Capture Detector

Wastewater Samples: USEPA Methods for the Analysis of Water and Wastes, Method 608.3.
Soil and Groundwater Samples: USEPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods Update III, Method 8082A.

General Chemistry Methods:

Various general chemistry methods are taken from "Standard Methods for the Examination of Water and Wastewater, 22nd Edition", .

Specific method citations can be found on the Analytical Results Summary page of this report listed under 'Method'.

** A complete list of Pace Fairfield's certified Methods are on the Standards And Docs page of the Results Retrieval System

Pace Analytical Services, LLC-Fairfield
Data Reporting Abbreviations and Qualifiers

Method Detection Limit (MDL):

The MDL is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. The value is calculated following the guidelines defined in:

"Definition and Procedure for the Determination of the Method Detection Limit, Revision 2"
EPA 821-R-16-006, published December 2016.

Reporting Limit (RL):

The RL is the Concentration of the lowest calibration standard that was included in the initial calibration of the instrument. On analytical reports this value is corrected for percent moisture and any concentration or dilution factors.

Concentration (Conc.) / Result:

If the compound is detected, the measured concentration is reported. If this column is "ND", or contains a 'less than' (<) symbol, the compound was not detected.

Tentatively Identified Compound (TIC):

A TIC is a non-targeted compound, not included in the calibration, identified by a mass spectral library search OR requested to be identified and reported by the client.

Abbreviations:

ND	Non-Detect
TNTC	Too Numerous To Count

Qualifers:

U	Compound not detected

Pace Analytical Services, LLC-Fairfield

QUALITY CONTROL
Conformance/Non-Conformance Summary

ANALYSIS: Sulfide [SM 4500-S-D-11]

COMMENTS:
The matrix spike and matrix spike duplicate recovery for Sulfide was outside QC limits (low).

Reviewed By: _____ (IK) 6/18/2024
Sudip Pradhan - Laboratory Director — Date

For any questions about your Quality Control, please call us at 973-227-0422

PEOPLE ADVANCING SCIENCE

Pace Analytical Services, LLC-Fairfield

Positive Results Only Summary

24F0844-01 (Water) Sample Name: **MW-1-20240610**

SM 4500-S-D-11 - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Sulfide	0.0220		0.00500	0.0100	mg/L	1	6/17/24 11:30

24F0844-02 (Water) Sample Name: **MW-1D-20240610**

SM 4500-S-D-11 - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Sulfide	0.0200		0.00500	0.0100	mg/L	1	6/17/24 11:30

24F0844-03 (Water) Sample Name: **MW-3-20240610**

SM 4500-S-D-11 - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Sulfide	0.0110		0.00500	0.0100	mg/L	1	6/17/24 11:30

24F0844-04 (Water) Sample Name: **MW-5-20240610**

SM 4500-S-D-11 - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Sulfide	0.0100		0.00500	0.0100	mg/L	1	6/17/24 11:30

24F0844-05 (Water) Sample Name: **DUP-20240610**

SM 4500-S-D-11 - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Sulfide	0.0260		0.00500	0.0100	mg/L	1	6/17/24 11:30

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
H - Indicates a Hold Time violation
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit, **RL** - Reporting limit
D1 - Sample was Decanted (Dissolved)

All Results Summary

Pace Analytical Services, LLC-Fairfield

Client:	Pace - Alpha Analytical, Westborough, MA	**Work Order:**	24F0844
Project:	L2432304	**Date to Lab:**	6/12/2024 8:10:00AM

24F0844-01 (Water) Sample Name: **MW-1-20240610** Collected: **6/10/2024 10:57:00AM**

SM 4500-S-D-11 - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Sulfide	0.0220		0.00500	0.0100	mg/L	1	6/17/24 11:30

24F0844-02 (Water) Sample Name: **MW-1D-20240610** Collected: **6/10/2024 10:07:00AM**

SM 4500-S-D-11 - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Sulfide	0.0200		0.00500	0.0100	mg/L	1	6/17/24 11:30

24F0844-03 (Water) Sample Name: **MW-3-20240610** Collected: **6/10/2024 11:45:00AM**

SM 4500-S-D-11 - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Sulfide	0.0110		0.00500	0.0100	mg/L	1	6/17/24 11:30

24F0844-04 (Water) Sample Name: **MW-5-20240610** Collected: **6/10/2024 12:20:00PM**

SM 4500-S-D-11 - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Sulfide	0.0100		0.00500	0.0100	mg/L	1	6/17/24 11:30

24F0844-05 (Water) Sample Name: **DUP-20240610** Collected: **6/10/2024 12:00:00PM**

SM 4500-S-D-11 - General Chemistry

Analyte	Result	Qual	MDL	RL	Units	Dilution	Analyzed
Sulfide	0.0260		0.00500	0.0100	mg/L	1	6/17/24 11:30

ND, U - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
H - Indicates a Hold Time violation
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit, **RL** - Reporting limit
D1 - Sample was Decanted (Dissolved)

Pace Analytical Services, LLC-Fairfield

GENERAL CHEMISTRY

Pace - Alpha Analytical, Westborough, MA

Work Order: 24F0844

Project: L2432304

ANALYSIS DATA SHEET

General Chemistry

Client: Pace - Alpha Analytical, Westborough, MA
Project: L2432304
Work Order: 24F0844

General Chemistry

24F0844-01 (Water) - MW-1-20240610

Analyte	Units	Conc.	RL	DF	Qual	Analyzed	Method
Sulfide	mg/L	0.0220	0.0100	1		06/17/24 11:30	SM 4500-S-D-11

24F0844-02 (Water) - MW-1D-20240610

Analyte	Units	Conc.	RL	DF	Qual	Analyzed	Method
Sulfide	mg/L	0.0200	0.0100	1		06/17/24 11:30	SM 4500-S-D-11

24F0844-03 (Water) - MW-3-20240610

Analyte	Units	Conc.	RL	DF	Qual	Analyzed	Method
Sulfide	mg/L	0.0110	0.0100	1		06/17/24 11:30	SM 4500-S-D-11

24F0844-04 (Water) - MW-5-20240610

Analyte	Units	Conc.	RL	DF	Qual	Analyzed	Method
Sulfide	mg/L	0.0100	0.0100	1		06/17/24 11:30	SM 4500-S-D-11

24F0844-05 (Water) - DUP-20240610

Analyte	Units	Conc.	RL	DF	Qual	Analyzed	Method
Sulfide	mg/L	0.0260	0.0100	1		06/17/24 11:30	SM 4500-S-D-11

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard
D - Indicates result is based on a dilution
H - Indicates a Hold Time violation
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit, **RL** - Reporting limit

F-I

ANALYTICAL REPORT

Lab Number:	L2432795
Client:	LaBella Associates 45 Main Street Brooklyn, NY 11201
ATTN:	Cynthia Chu
Phone:	(917) 280-6364
Project Name:	321 WARBURTON AVE.
Project Number:	2221378
Report Date:	06/20/24

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

Project Name: 321 WARBURTON AVE.
Project Number: 2221378

Lab Number: L2432795
Report Date: 06/20/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2432795-01	MW-2 (60')	WATER	YONKERS, NY	06/11/24 08:40	06/11/24
L2432795-02	MW-2 (66')	WATER	YONKERS, NY	06/11/24 08:45	06/11/24
L2432795-03	MW-2 (73.5')	WATER	YONKERS, NY	06/11/24 08:50	06/11/24
L2432795-04	MW-4 (59')	WATER	YONKERS, NY	06/11/24 09:10	06/11/24
L2432795-05	MW-4 (66.5')	WATER	YONKERS, NY	06/11/24 09:15	06/11/24
L2432795-06	MW-4 (73.5')	WATER	YONKERS, NY	06/11/24 09:20	06/11/24
L2432795-07	MW-6 (56')	WATER	YONKERS, NY	06/11/24 08:00	06/11/24
L2432795-08	MW-6 (65')	WATER	YONKERS, NY	06/11/24 08:05	06/11/24
L2432795-09	MW-6 (73.5')	WATER	YONKERS, NY	06/11/24 08:10	06/11/24
L2432795-10	TRIP BLANK	WATER	YONKERS, NY	06/11/24 00:00	06/11/24
L2432795-11	MW-2-20240611	WATER	YONKERS, NY	06/11/24 08:41	06/11/24
L2432795-12	MW-4-20240611	WATER	YONKERS, NY	06/11/24 11:35	06/11/24
L2432795-13	MW-6-20240611	WATER	YONKERS, NY	06/11/24 10:15	06/11/24

Project Name:	321 WARBURTON AVE.	**Lab Number:**	L2432795
Project Number:	2221378	**Report Date:**	06/20/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	321 WARBURTON AVE.	**Lab Number:**	L2432795
Project Number:	2221378	**Report Date:**	06/20/24

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

The analysis of Sulfide was subcontracted. A copy of the laboratory report is included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 06/20/24

ORGANICS

VOLATILES

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432795-01 D
Client ID: MW-2 (60')
Sample Location: YONKERS, NY

Date Collected: 06/11/24 08:40
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 06/15/24 16:40
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	120	35.	50
1,1-Dichloroethane	ND		ug/l	120	35.	50
Chloroform	ND		ug/l	120	35.	50
Carbon tetrachloride	ND		ug/l	25	6.7	50
1,2-Dichloropropane	ND		ug/l	50	6.8	50
Dibromochloromethane	ND		ug/l	25	7.4	50
1,1,2-Trichloroethane	ND		ug/l	75	25.	50
Tetrachloroethene	6000		ug/l	25	9.0	50
Chlorobenzene	ND		ug/l	120	35.	50
Trichlorofluoromethane	ND		ug/l	120	35.	50
1,2-Dichloroethane	ND		ug/l	25	6.6	50
1,1,1-Trichloroethane	ND		ug/l	120	35.	50
Bromodichloromethane	ND		ug/l	25	9.6	50
trans-1,3-Dichloropropene	ND		ug/l	25	8.2	50
cis-1,3-Dichloropropene	ND		ug/l	25	7.2	50
1,3-Dichloropropene, Total	ND		ug/l	25	7.2	50
1,1-Dichloropropene	ND		ug/l	120	35.	50
Bromoform	ND		ug/l	100	32.	50
1,1,2,2-Tetrachloroethane	ND		ug/l	25	8.4	50
Benzene	ND		ug/l	25	8.0	50
Toluene	ND		ug/l	120	35.	50
Ethylbenzene	ND		ug/l	120	35.	50
Chloromethane	ND		ug/l	120	35.	50
Bromomethane	ND		ug/l	120	35.	50
Vinyl chloride	ND		ug/l	50	3.6	50
Chloroethane	ND		ug/l	120	35.	50
1,1-Dichloroethene	ND		ug/l	25	8.4	50
trans-1,2-Dichloroethene	ND		ug/l	120	35.	50

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432795-01 D Date Collected: 06/11/24 08:40
Client ID: MW-2 (60') Date Received: 06/11/24
Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	25	8.8	50
1,2-Dichlorobenzene	ND		ug/l	120	35.	50
1,3-Dichlorobenzene	ND		ug/l	120	35.	50
1,4-Dichlorobenzene	ND		ug/l	120	35.	50
Methyl tert butyl ether	ND		ug/l	120	8.3	50
p/m-Xylene	ND		ug/l	120	35.	50
o-Xylene	ND		ug/l	120	35.	50
Xylenes, Total	ND		ug/l	120	35.	50
cis-1,2-Dichloroethene	ND		ug/l	120	35.	50
1,2-Dichloroethene, Total	ND		ug/l	120	35.	50
Dibromomethane	ND		ug/l	250	50.	50
1,2,3-Trichloropropane	ND		ug/l	120	35.	50
Acrylonitrile	ND		ug/l	250	75.	50
Styrene	ND		ug/l	120	35.	50
Dichlorodifluoromethane	ND		ug/l	250	50.	50
Acetone	ND		ug/l	250	73.	50
Carbon disulfide	ND		ug/l	250	50.	50
2-Butanone	ND		ug/l	250	97.	50
Vinyl acetate	ND		ug/l	250	50.	50
4-Methyl-2-pentanone	ND		ug/l	250	50.	50
2-Hexanone	ND		ug/l	250	50.	50
Bromochloromethane	ND		ug/l	120	35.	50
2,2-Dichloropropane	ND		ug/l	120	35.	50
1,2-Dibromoethane	ND		ug/l	100	32.	50
1,3-Dichloropropane	ND		ug/l	120	35.	50
1,1,1,2-Tetrachloroethane	ND		ug/l	120	35.	50
Bromobenzene	ND		ug/l	120	35.	50
n-Butylbenzene	ND		ug/l	120	35.	50
sec-Butylbenzene	ND		ug/l	120	35.	50
tert-Butylbenzene	ND		ug/l	120	35.	50
o-Chlorotoluene	ND		ug/l	120	35.	50
p-Chlorotoluene	ND		ug/l	120	35.	50
1,2-Dibromo-3-chloropropane	ND		ug/l	120	35.	50
Hexachlorobutadiene	ND		ug/l	120	35.	50
Isopropylbenzene	ND		ug/l	120	35.	50
p-Isopropyltoluene	ND		ug/l	120	35.	50
Naphthalene	ND		ug/l	120	35.	50

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432795-01 D Date Collected: 06/11/24 08:40
Client ID: MW-2 (60') Date Received: 06/11/24
Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	120	35.	50
1,2,3-Trichlorobenzene	ND		ug/l	120	35.	50
1,2,4-Trichlorobenzene	ND		ug/l	120	35.	50
1,3,5-Trimethylbenzene	ND		ug/l	120	35.	50
1,2,4-Trimethylbenzene	ND		ug/l	120	35.	50
1,4-Dioxane	ND		ug/l	12000	3000	50
p-Diethylbenzene	ND		ug/l	100	35.	50
p-Ethyltoluene	ND		ug/l	100	35.	50
1,2,4,5-Tetramethylbenzene	ND		ug/l	100	27.	50
Ethyl ether	ND		ug/l	120	35.	50
trans-1,4-Dichloro-2-butene	ND		ug/l	120	35.	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	107		70-130

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432795-02 D
Client ID: MW-2 (66')
Sample Location: YONKERS, NY

Date Collected: 06/11/24 08:45
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 06/17/24 23:01
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	120	35.	50
1,1-Dichloroethane	ND		ug/l	120	35.	50
Chloroform	ND		ug/l	120	35.	50
Carbon tetrachloride	ND		ug/l	25	6.7	50
1,2-Dichloropropane	ND		ug/l	50	6.8	50
Dibromochloromethane	ND		ug/l	25	7.4	50
1,1,2-Trichloroethane	ND		ug/l	75	25.	50
Tetrachloroethene	7800		ug/l	25	9.0	50
Chlorobenzene	ND		ug/l	120	35.	50
Trichlorofluoromethane	ND		ug/l	120	35.	50
1,2-Dichloroethane	ND		ug/l	25	6.6	50
1,1,1-Trichloroethane	ND		ug/l	120	35.	50
Bromodichloromethane	ND		ug/l	25	9.6	50
trans-1,3-Dichloropropene	ND		ug/l	25	8.2	50
cis-1,3-Dichloropropene	ND		ug/l	25	7.2	50
1,3-Dichloropropene, Total	ND		ug/l	25	7.2	50
1,1-Dichloropropene	ND		ug/l	120	35.	50
Bromoform	ND		ug/l	100	32.	50
1,1,2,2-Tetrachloroethane	ND		ug/l	25	8.4	50
Benzene	ND		ug/l	25	8.0	50
Toluene	ND		ug/l	120	35.	50
Ethylbenzene	ND		ug/l	120	35.	50
Chloromethane	ND		ug/l	120	35.	50
Bromomethane	ND		ug/l	120	35.	50
Vinyl chloride	ND		ug/l	50	3.6	50
Chloroethane	ND		ug/l	120	35.	50
1,1-Dichloroethene	ND		ug/l	25	8.4	50
trans-1,2-Dichloroethene	ND		ug/l	120	35.	50

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432795-02 D Date Collected: 06/11/24 08:45
Client ID: MW-2 (66') Date Received: 06/11/24
Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	25	8.8	50
1,2-Dichlorobenzene	ND		ug/l	120	35.	50
1,3-Dichlorobenzene	ND		ug/l	120	35.	50
1,4-Dichlorobenzene	ND		ug/l	120	35.	50
Methyl tert butyl ether	ND		ug/l	120	8.3	50
p/m-Xylene	ND		ug/l	120	35.	50
o-Xylene	ND		ug/l	120	35.	50
Xylenes, Total	ND		ug/l	120	35.	50
cis-1,2-Dichloroethene	ND		ug/l	120	35.	50
1,2-Dichloroethene, Total	ND		ug/l	120	35.	50
Dibromomethane	ND		ug/l	250	50.	50
1,2,3-Trichloropropane	ND		ug/l	120	35.	50
Acrylonitrile	ND		ug/l	250	75.	50
Styrene	ND		ug/l	120	35.	50
Dichlorodifluoromethane	ND		ug/l	250	50.	50
Acetone	82	J	ug/l	250	73.	50
Carbon disulfide	ND		ug/l	250	50.	50
2-Butanone	ND		ug/l	250	97.	50
Vinyl acetate	ND		ug/l	250	50.	50
4-Methyl-2-pentanone	ND		ug/l	250	50.	50
2-Hexanone	ND		ug/l	250	50.	50
Bromochloromethane	ND		ug/l	120	35.	50
2,2-Dichloropropane	ND		ug/l	120	35.	50
1,2-Dibromoethane	ND		ug/l	100	32.	50
1,3-Dichloropropane	ND		ug/l	120	35.	50
1,1,1,2-Tetrachloroethane	ND		ug/l	120	35.	50
Bromobenzene	ND		ug/l	120	35.	50
n-Butylbenzene	ND		ug/l	120	35.	50
sec-Butylbenzene	ND		ug/l	120	35.	50
tert-Butylbenzene	ND		ug/l	120	35.	50
o-Chlorotoluene	ND		ug/l	120	35.	50
p-Chlorotoluene	ND		ug/l	120	35.	50
1,2-Dibromo-3-chloropropane	ND		ug/l	120	35.	50
Hexachlorobutadiene	ND		ug/l	120	35.	50
Isopropylbenzene	ND		ug/l	120	35.	50
p-Isopropyltoluene	ND		ug/l	120	35.	50
Naphthalene	ND		ug/l	120	35.	50

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432795-02 D Date Collected: 06/11/24 08:45

Client ID: MW-2 (66') Date Received: 06/11/24

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	120	35.	50
1,2,3-Trichlorobenzene	ND		ug/l	120	35.	50
1,2,4-Trichlorobenzene	ND		ug/l	120	35.	50
1,3,5-Trimethylbenzene	ND		ug/l	120	35.	50
1,2,4-Trimethylbenzene	ND		ug/l	120	35.	50
1,4-Dioxane	ND		ug/l	12000	3000	50
p-Diethylbenzene	ND		ug/l	100	35.	50
p-Ethyltoluene	ND		ug/l	100	35.	50
1,2,4,5-Tetramethylbenzene	ND		ug/l	100	27.	50
Ethyl ether	ND		ug/l	120	35.	50
trans-1,4-Dichloro-2-butene	ND		ug/l	120	35.	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	102		70-130

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432795-03 D
Client ID: MW-2 (73.5')
Sample Location: YONKERS, NY

Date Collected: 06/11/24 08:50
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 06/15/24 17:24
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	250	70.	100
1,1-Dichloroethane	ND		ug/l	250	70.	100
Chloroform	ND		ug/l	250	70.	100
Carbon tetrachloride	ND		ug/l	50	13.	100
1,2-Dichloropropane	ND		ug/l	100	14.	100
Dibromochloromethane	ND		ug/l	50	15.	100
1,1,2-Trichloroethane	ND		ug/l	150	50.	100
Tetrachloroethene	8400		ug/l	50	18.	100
Chlorobenzene	ND		ug/l	250	70.	100
Trichlorofluoromethane	ND		ug/l	250	70.	100
1,2-Dichloroethane	ND		ug/l	50	13.	100
1,1,1-Trichloroethane	ND		ug/l	250	70.	100
Bromodichloromethane	ND		ug/l	50	19.	100
trans-1,3-Dichloropropene	ND		ug/l	50	16.	100
cis-1,3-Dichloropropene	ND		ug/l	50	14.	100
1,3-Dichloropropene, Total	ND		ug/l	50	14.	100
1,1-Dichloropropene	ND		ug/l	250	70.	100
Bromoform	ND		ug/l	200	65.	100
1,1,2,2-Tetrachloroethane	ND		ug/l	50	17.	100
Benzene	ND		ug/l	50	16.	100
Toluene	ND		ug/l	250	70.	100
Ethylbenzene	ND		ug/l	250	70.	100
Chloromethane	ND		ug/l	250	70.	100
Bromomethane	ND		ug/l	250	70.	100
Vinyl chloride	ND		ug/l	100	7.1	100
Chloroethane	ND		ug/l	250	70.	100
1,1-Dichloroethene	ND		ug/l	50	17.	100
trans-1,2-Dichloroethene	ND		ug/l	250	70.	100

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432795-03 D Date Collected: 06/11/24 08:50
Client ID: MW-2 (73.5') Date Received: 06/11/24
Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	50	18.	100
1,2-Dichlorobenzene	ND		ug/l	250	70.	100
1,3-Dichlorobenzene	ND		ug/l	250	70.	100
1,4-Dichlorobenzene	ND		ug/l	250	70.	100
Methyl tert butyl ether	ND		ug/l	250	17.	100
p/m-Xylene	ND		ug/l	250	70.	100
o-Xylene	ND		ug/l	250	70.	100
Xylenes, Total	ND		ug/l	250	70.	100
cis-1,2-Dichloroethene	ND		ug/l	250	70.	100
1,2-Dichloroethene, Total	ND		ug/l	250	70.	100
Dibromomethane	ND		ug/l	500	100	100
1,2,3-Trichloropropane	ND		ug/l	250	70.	100
Acrylonitrile	ND		ug/l	500	150	100
Styrene	ND		ug/l	250	70.	100
Dichlorodifluoromethane	ND		ug/l	500	100	100
Acetone	ND		ug/l	500	150	100
Carbon disulfide	ND		ug/l	500	100	100
2-Butanone	ND		ug/l	500	190	100
Vinyl acetate	ND		ug/l	500	100	100
4-Methyl-2-pentanone	ND		ug/l	500	100	100
2-Hexanone	ND		ug/l	500	100	100
Bromochloromethane	ND		ug/l	250	70.	100
2,2-Dichloropropane	ND		ug/l	250	70.	100
1,2-Dibromoethane	ND		ug/l	200	65.	100
1,3-Dichloropropane	ND		ug/l	250	70.	100
1,1,1,2-Tetrachloroethane	ND		ug/l	250	70.	100
Bromobenzene	ND		ug/l	250	70.	100
n-Butylbenzene	ND		ug/l	250	70.	100
sec-Butylbenzene	ND		ug/l	250	70.	100
tert-Butylbenzene	ND		ug/l	250	70.	100
o-Chlorotoluene	ND		ug/l	250	70.	100
p-Chlorotoluene	ND		ug/l	250	70.	100
1,2-Dibromo-3-chloropropane	ND		ug/l	250	70.	100
Hexachlorobutadiene	ND		ug/l	250	70.	100
Isopropylbenzene	ND		ug/l	250	70.	100
p-Isopropyltoluene	ND		ug/l	250	70.	100
Naphthalene	ND		ug/l	250	70.	100

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432795-03 D Date Collected: 06/11/24 08:50

Client ID: MW-2 (73.5') Date Received: 06/11/24

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	250	70.	100
1,2,3-Trichlorobenzene	ND		ug/l	250	70.	100
1,2,4-Trichlorobenzene	ND		ug/l	250	70.	100
1,3,5-Trimethylbenzene	ND		ug/l	250	70.	100
1,2,4-Trimethylbenzene	ND		ug/l	250	70.	100
1,4-Dioxane	ND		ug/l	25000	6100	100
p-Diethylbenzene	ND		ug/l	200	70.	100
p-Ethyltoluene	ND		ug/l	200	70.	100
1,2,4,5-Tetramethylbenzene	ND		ug/l	200	54.	100
Ethyl ether	ND		ug/l	250	70.	100
trans-1,4-Dichloro-2-butene	ND		ug/l	250	70.	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	107		70-130

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432795-04 Date Collected: 06/11/24 09:10
Client ID: MW-4 (59') Date Received: 06/11/24
Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 06/15/24 15:33
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	79		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432795-04 Date Collected: 06/11/24 09:10

Client ID: MW-4 (59') Date Received: 06/11/24

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	2.3		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	80		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	2.1	J	ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432795-04 Date Collected: 06/11/24 09:10

Client ID: MW-4 (59') Date Received: 06/11/24

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	106		70-130

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432795-05 Date Collected: 06/11/24 09:15
Client ID: MW-4 (66.5') Date Received: 06/11/24
Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 06/15/24 15:55
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	38		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432795-05 Date Collected: 06/11/24 09:15

Client ID: MW-4 (66.5') Date Received: 06/11/24

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	0.94		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	99		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	2.5	J	ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432795-05 Date Collected: 06/11/24 09:15

Client ID: MW-4 (66.5') Date Received: 06/11/24

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	106		70-130

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432795-06 D
Client ID: MW-4 (73.5')
Sample Location: YONKERS, NY

Date Collected: 06/11/24 09:20
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 06/15/24 17:47
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	5.0	1.4	2
1,1-Dichloroethane	ND		ug/l	5.0	1.4	2
Chloroform	ND		ug/l	5.0	1.4	2
Carbon tetrachloride	ND		ug/l	1.0	0.27	2
1,2-Dichloropropane	ND		ug/l	2.0	0.27	2
Dibromochloromethane	ND		ug/l	1.0	0.30	2
1,1,2-Trichloroethane	ND		ug/l	3.0	1.0	2
Tetrachloroethene	170		ug/l	1.0	0.36	2
Chlorobenzene	ND		ug/l	5.0	1.4	2
Trichlorofluoromethane	ND		ug/l	5.0	1.4	2
1,2-Dichloroethane	ND		ug/l	1.0	0.26	2
1,1,1-Trichloroethane	ND		ug/l	5.0	1.4	2
Bromodichloromethane	ND		ug/l	1.0	0.38	2
trans-1,3-Dichloropropene	ND		ug/l	1.0	0.33	2
cis-1,3-Dichloropropene	ND		ug/l	1.0	0.29	2
1,3-Dichloropropene, Total	ND		ug/l	1.0	0.29	2
1,1-Dichloropropene	ND		ug/l	5.0	1.4	2
Bromoform	ND		ug/l	4.0	1.3	2
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.33	2
Benzene	ND		ug/l	1.0	0.32	2
Toluene	ND		ug/l	5.0	1.4	2
Ethylbenzene	ND		ug/l	5.0	1.4	2
Chloromethane	ND		ug/l	5.0	1.4	2
Bromomethane	ND		ug/l	5.0	1.4	2
Vinyl chloride	ND		ug/l	2.0	0.14	2
Chloroethane	ND		ug/l	5.0	1.4	2
1,1-Dichloroethene	ND		ug/l	1.0	0.34	2
trans-1,2-Dichloroethene	ND		ug/l	5.0	1.4	2

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432795-06 D Date Collected: 06/11/24 09:20
Client ID: MW-4 (73.5') Date Received: 06/11/24
Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	3.6		ug/l	1.0	0.35	2
1,2-Dichlorobenzene	ND		ug/l	5.0	1.4	2
1,3-Dichlorobenzene	ND		ug/l	5.0	1.4	2
1,4-Dichlorobenzene	ND		ug/l	5.0	1.4	2
Methyl tert butyl ether	ND		ug/l	5.0	0.33	2
p/m-Xylene	ND		ug/l	5.0	1.4	2
o-Xylene	ND		ug/l	5.0	1.4	2
Xylenes, Total	ND		ug/l	5.0	1.4	2
cis-1,2-Dichloroethene	ND		ug/l	5.0	1.4	2
1,2-Dichloroethene, Total	ND		ug/l	5.0	1.4	2
Dibromomethane	ND		ug/l	10	2.0	2
1,2,3-Trichloropropane	ND		ug/l	5.0	1.4	2
Acrylonitrile	ND		ug/l	10	3.0	2
Styrene	ND		ug/l	5.0	1.4	2
Dichlorodifluoromethane	ND		ug/l	10	2.0	2
Acetone	110		ug/l	10	2.9	2
Carbon disulfide	ND		ug/l	10	2.0	2
2-Butanone	ND		ug/l	10	3.9	2
Vinyl acetate	ND		ug/l	10	2.0	2
4-Methyl-2-pentanone	ND		ug/l	10	2.0	2
2-Hexanone	ND		ug/l	10	2.0	2
Bromochloromethane	ND		ug/l	5.0	1.4	2
2,2-Dichloropropane	ND		ug/l	5.0	1.4	2
1,2-Dibromoethane	ND		ug/l	4.0	1.3	2
1,3-Dichloropropane	ND		ug/l	5.0	1.4	2
1,1,1,2-Tetrachloroethane	ND		ug/l	5.0	1.4	2
Bromobenzene	ND		ug/l	5.0	1.4	2
n-Butylbenzene	ND		ug/l	5.0	1.4	2
sec-Butylbenzene	ND		ug/l	5.0	1.4	2
tert-Butylbenzene	ND		ug/l	5.0	1.4	2
o-Chlorotoluene	ND		ug/l	5.0	1.4	2
p-Chlorotoluene	ND		ug/l	5.0	1.4	2
1,2-Dibromo-3-chloropropane	ND		ug/l	5.0	1.4	2
Hexachlorobutadiene	ND		ug/l	5.0	1.4	2
Isopropylbenzene	ND		ug/l	5.0	1.4	2
p-Isopropyltoluene	ND		ug/l	5.0	1.4	2
Naphthalene	ND		ug/l	5.0	1.4	2

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432795-06 D Date Collected: 06/11/24 09:20

Client ID: MW-4 (73.5') Date Received: 06/11/24

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	5.0	1.4	2
1,2,3-Trichlorobenzene	ND		ug/l	5.0	1.4	2
1,2,4-Trichlorobenzene	ND		ug/l	5.0	1.4	2
1,3,5-Trimethylbenzene	ND		ug/l	5.0	1.4	2
1,2,4-Trimethylbenzene	ND		ug/l	5.0	1.4	2
1,4-Dioxane	ND		ug/l	500	120	2
p-Diethylbenzene	ND		ug/l	4.0	1.4	2
p-Ethyltoluene	ND		ug/l	4.0	1.4	2
1,2,4,5-Tetramethylbenzene	ND		ug/l	4.0	1.1	2
Ethyl ether	ND		ug/l	5.0	1.4	2
trans-1,4-Dichloro-2-butene	ND		ug/l	5.0	1.4	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	106		70-130

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432795-07 Date Collected: 06/11/24 08:00
Client ID: MW-6 (56') Date Received: 06/11/24
Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 06/15/24 16:18
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	3.0		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	160		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432795-07 Date Collected: 06/11/24 08:00

Client ID: MW-6 (56') Date Received: 06/11/24

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	0.45	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	9.4		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	4.0	J	ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432795-07 Date Collected: 06/11/24 08:00

Client ID: MW-6 (56') Date Received: 06/11/24

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	105		70-130

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432795-08 D
Client ID: MW-6 (65')
Sample Location: YONKERS, NY

Date Collected: 06/11/24 08:05
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 06/15/24 18:09
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	50	14.	20
1,1-Dichloroethane	ND		ug/l	50	14.	20
Chloroform	ND		ug/l	50	14.	20
Carbon tetrachloride	ND		ug/l	10	2.7	20
1,2-Dichloropropane	ND		ug/l	20	2.7	20
Dibromochloromethane	ND		ug/l	10	3.0	20
1,1,2-Trichloroethane	ND		ug/l	30	10.	20
Tetrachloroethene	2200		ug/l	10	3.6	20
Chlorobenzene	ND		ug/l	50	14.	20
Trichlorofluoromethane	ND		ug/l	50	14.	20
1,2-Dichloroethane	ND		ug/l	10	2.6	20
1,1,1-Trichloroethane	ND		ug/l	50	14.	20
Bromodichloromethane	ND		ug/l	10	3.8	20
trans-1,3-Dichloropropene	ND		ug/l	10	3.3	20
cis-1,3-Dichloropropene	ND		ug/l	10	2.9	20
1,3-Dichloropropene, Total	ND		ug/l	10	2.9	20
1,1-Dichloropropene	ND		ug/l	50	14.	20
Bromoform	ND		ug/l	40	13.	20
1,1,2,2-Tetrachloroethane	ND		ug/l	10	3.3	20
Benzene	ND		ug/l	10	3.2	20
Toluene	ND		ug/l	50	14.	20
Ethylbenzene	ND		ug/l	50	14.	20
Chloromethane	ND		ug/l	50	14.	20
Bromomethane	ND		ug/l	50	14.	20
Vinyl chloride	ND		ug/l	20	1.4	20
Chloroethane	ND		ug/l	50	14.	20
1,1-Dichloroethene	ND		ug/l	10	3.4	20
trans-1,2-Dichloroethene	ND		ug/l	50	14.	20

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432795-08 D Date Collected: 06/11/24 08:05
Client ID: MW-6 (65') Date Received: 06/11/24
Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	10	3.5	20
1,2-Dichlorobenzene	ND		ug/l	50	14.	20
1,3-Dichlorobenzene	ND		ug/l	50	14.	20
1,4-Dichlorobenzene	ND		ug/l	50	14.	20
Methyl tert butyl ether	ND		ug/l	50	3.3	20
p/m-Xylene	ND		ug/l	50	14.	20
o-Xylene	ND		ug/l	50	14.	20
Xylenes, Total	ND		ug/l	50	14.	20
cis-1,2-Dichloroethene	ND		ug/l	50	14.	20
1,2-Dichloroethene, Total	ND		ug/l	50	14.	20
Dibromomethane	ND		ug/l	100	20.	20
1,2,3-Trichloropropane	ND		ug/l	50	14.	20
Acrylonitrile	ND		ug/l	100	30.	20
Styrene	ND		ug/l	50	14.	20
Dichlorodifluoromethane	ND		ug/l	100	20.	20
Acetone	ND		ug/l	100	29.	20
Carbon disulfide	ND		ug/l	100	20.	20
2-Butanone	ND		ug/l	100	39.	20
Vinyl acetate	ND		ug/l	100	20.	20
4-Methyl-2-pentanone	ND		ug/l	100	20.	20
2-Hexanone	ND		ug/l	100	20.	20
Bromochloromethane	ND		ug/l	50	14.	20
2,2-Dichloropropane	ND		ug/l	50	14.	20
1,2-Dibromoethane	ND		ug/l	40	13.	20
1,3-Dichloropropane	ND		ug/l	50	14.	20
1,1,1,2-Tetrachloroethane	ND		ug/l	50	14.	20
Bromobenzene	ND		ug/l	50	14.	20
n-Butylbenzene	ND		ug/l	50	14.	20
sec-Butylbenzene	ND		ug/l	50	14.	20
tert-Butylbenzene	ND		ug/l	50	14.	20
o-Chlorotoluene	ND		ug/l	50	14.	20
p-Chlorotoluene	ND		ug/l	50	14.	20
1,2-Dibromo-3-chloropropane	ND		ug/l	50	14.	20
Hexachlorobutadiene	ND		ug/l	50	14.	20
Isopropylbenzene	ND		ug/l	50	14.	20
p-Isopropyltoluene	ND		ug/l	50	14.	20
Naphthalene	ND		ug/l	50	14.	20

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432795-08 D Date Collected: 06/11/24 08:05

Client ID: MW-6 (65') Date Received: 06/11/24

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	50	14.	20
1,2,3-Trichlorobenzene	ND		ug/l	50	14.	20
1,2,4-Trichlorobenzene	ND		ug/l	50	14.	20
1,3,5-Trimethylbenzene	ND		ug/l	50	14.	20
1,2,4-Trimethylbenzene	ND		ug/l	50	14.	20
1,4-Dioxane	ND		ug/l	5000	1200	20
p-Diethylbenzene	ND		ug/l	40	14.	20
p-Ethyltoluene	ND		ug/l	40	14.	20
1,2,4,5-Tetramethylbenzene	ND		ug/l	40	11.	20
Ethyl ether	ND		ug/l	50	14.	20
trans-1,4-Dichloro-2-butene	ND		ug/l	50	14.	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	107		70-130

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432795-09 D
Client ID: MW-6 (73.5')
Sample Location: YONKERS, NY

Date Collected: 06/11/24 08:10
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 06/15/24 18:31
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	62	18.	25
1,1-Dichloroethane	ND		ug/l	62	18.	25
Chloroform	ND		ug/l	62	18.	25
Carbon tetrachloride	ND		ug/l	12	3.4	25
1,2-Dichloropropane	ND		ug/l	25	3.4	25
Dibromochloromethane	ND		ug/l	12	3.7	25
1,1,2-Trichloroethane	ND		ug/l	38	12.	25
Tetrachloroethene	2400		ug/l	12	4.5	25
Chlorobenzene	ND		ug/l	62	18.	25
Trichlorofluoromethane	ND		ug/l	62	18.	25
1,2-Dichloroethane	ND		ug/l	12	3.3	25
1,1,1-Trichloroethane	ND		ug/l	62	18.	25
Bromodichloromethane	ND		ug/l	12	4.8	25
trans-1,3-Dichloropropene	ND		ug/l	12	4.1	25
cis-1,3-Dichloropropene	ND		ug/l	12	3.6	25
1,3-Dichloropropene, Total	ND		ug/l	12	3.6	25
1,1-Dichloropropene	ND		ug/l	62	18.	25
Bromoform	ND		ug/l	50	16.	25
1,1,2,2-Tetrachloroethane	ND		ug/l	12	4.2	25
Benzene	ND		ug/l	12	4.0	25
Toluene	ND		ug/l	62	18.	25
Ethylbenzene	ND		ug/l	62	18.	25
Chloromethane	ND		ug/l	62	18.	25
Bromomethane	ND		ug/l	62	18.	25
Vinyl chloride	ND		ug/l	25	1.8	25
Chloroethane	ND		ug/l	62	18.	25
1,1-Dichloroethene	ND		ug/l	12	4.2	25
trans-1,2-Dichloroethene	ND		ug/l	62	18.	25

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432795-09 D Date Collected: 06/11/24 08:10
Client ID: MW-6 (73.5') Date Received: 06/11/24
Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	12	4.4	25
1,2-Dichlorobenzene	ND		ug/l	62	18.	25
1,3-Dichlorobenzene	ND		ug/l	62	18.	25
1,4-Dichlorobenzene	ND		ug/l	62	18.	25
Methyl tert butyl ether	ND		ug/l	62	4.2	25
p/m-Xylene	ND		ug/l	62	18.	25
o-Xylene	ND		ug/l	62	18.	25
Xylenes, Total	ND		ug/l	62	18.	25
cis-1,2-Dichloroethene	ND		ug/l	62	18.	25
1,2-Dichloroethene, Total	ND		ug/l	62	18.	25
Dibromomethane	ND		ug/l	120	25.	25
1,2,3-Trichloropropane	ND		ug/l	62	18.	25
Acrylonitrile	ND		ug/l	120	38.	25
Styrene	ND		ug/l	62	18.	25
Dichlorodifluoromethane	ND		ug/l	120	25.	25
Acetone	ND		ug/l	120	36.	25
Carbon disulfide	ND		ug/l	120	25.	25
2-Butanone	ND		ug/l	120	48.	25
Vinyl acetate	ND		ug/l	120	25.	25
4-Methyl-2-pentanone	ND		ug/l	120	25.	25
2-Hexanone	ND		ug/l	120	25.	25
Bromochloromethane	ND		ug/l	62	18.	25
2,2-Dichloropropane	ND		ug/l	62	18.	25
1,2-Dibromoethane	ND		ug/l	50	16.	25
1,3-Dichloropropane	ND		ug/l	62	18.	25
1,1,1,2-Tetrachloroethane	ND		ug/l	62	18.	25
Bromobenzene	ND		ug/l	62	18.	25
n-Butylbenzene	ND		ug/l	62	18.	25
sec-Butylbenzene	ND		ug/l	62	18.	25
tert-Butylbenzene	ND		ug/l	62	18.	25
o-Chlorotoluene	ND		ug/l	62	18.	25
p-Chlorotoluene	ND		ug/l	62	18.	25
1,2-Dibromo-3-chloropropane	ND		ug/l	62	18.	25
Hexachlorobutadiene	ND		ug/l	62	18.	25
Isopropylbenzene	ND		ug/l	62	18.	25
p-Isopropyltoluene	ND		ug/l	62	18.	25
Naphthalene	ND		ug/l	62	18.	25

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432795-09 D Date Collected: 06/11/24 08:10
Client ID: MW-6 (73.5') Date Received: 06/11/24
Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	62	18.	25
1,2,3-Trichlorobenzene	ND		ug/l	62	18.	25
1,2,4-Trichlorobenzene	ND		ug/l	62	18.	25
1,3,5-Trimethylbenzene	ND		ug/l	62	18.	25
1,2,4-Trimethylbenzene	ND		ug/l	62	18.	25
1,4-Dioxane	ND		ug/l	6200	1500	25
p-Diethylbenzene	ND		ug/l	50	18.	25
p-Ethyltoluene	ND		ug/l	50	18.	25
1,2,4,5-Tetramethylbenzene	ND		ug/l	50	14.	25
Ethyl ether	ND		ug/l	62	18.	25
trans-1,4-Dichloro-2-butene	ND		ug/l	62	18.	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	106		70-130

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432795-10 Date Collected: 06/11/24 00:00
Client ID: TRIP BLANK Date Received: 06/11/24
Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 06/15/24 15:11
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432795-10 Date Collected: 06/11/24 00:00

Client ID: TRIP BLANK Date Received: 06/11/24

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.17	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432795-10 Date Collected: 06/11/24 00:00

Client ID: TRIP BLANK Date Received: 06/11/24

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	104		70-130

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/15/24 13:41
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-10 Batch: WG1935128-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/15/24 13:41
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-10 Batch: WG1935128-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.17
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/15/24 13:41
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,03-10 Batch: WG1935128-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	106		70-130

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/17/24 18:56
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1935682-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/17/24 18:56
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1935682-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.17
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 06/17/24 18:56
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1935682-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	108		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 321 WARBURTON AVE.
Project Number: 2221378

Lab Number: L2432795
Report Date: 06/20/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-10 Batch: WG1935128-3 WG1935128-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	100		100		70-130	0		20
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	96		97		70-130	1		20
Dibromochloromethane	100		100		63-130	0		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Tetrachloroethene	93		93		70-130	0		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	100		100		62-150	0		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	100		100		67-130	0		20
trans-1,3-Dichloropropene	98		97		70-130	1		20
cis-1,3-Dichloropropene	95		96		70-130	1		20
1,1-Dichloropropene	100		100		70-130	0		20
Bromoform	96		92		54-136	4		20
1,1,2,2-Tetrachloroethane	100		98		67-130	2		20
Benzene	95		96		70-130	1		20
Toluene	99		98		70-130	1		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	79		80		64-130	1		20
Bromomethane	64		63		39-139	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 321 WARBURTON AVE.
Project Number: 2221378

Lab Number: L2432795
Report Date: 06/20/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-10 Batch: WG1935128-3 WG1935128-4								
Vinyl chloride	80		81		55-140	1		20
Chloroethane	100		100		55-138	0		20
1,1-Dichloroethene	97		99		61-145	2		20
trans-1,2-Dichloroethene	97		100		70-130	3		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	89		90		63-130	1		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Dibromomethane	110		110		70-130	0		20
1,2,3-Trichloropropane	100		100		64-130	0		20
Acrylonitrile	83		82		70-130	1		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	99		96		36-147	3		20
Acetone	110		110		58-148	0		20
Carbon disulfide	96		96		51-130	0		20
2-Butanone	96		100		63-138	4		20
Vinyl acetate	100		99		70-130	1		20
4-Methyl-2-pentanone	80		79		59-130	1		20
2-Hexanone	77		79		57-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 321 WARBURTON AVE.
Project Number: 2221378

Lab Number: L2432795
Report Date: 06/20/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-10 Batch: WG1935128-3 WG1935128-4								
Bromochloromethane	100		100		70-130	0		20
2,2-Dichloropropane	100		100		63-133	0		20
1,2-Dibromoethane	100		100		70-130	0		20
1,3-Dichloropropane	100		100		70-130	0		20
1,1,1,2-Tetrachloroethane	100		100		64-130	0		20
Bromobenzene	99		97		70-130	2		20
n-Butylbenzene	110		110		53-136	0		20
sec-Butylbenzene	110		100		70-130	10		20
tert-Butylbenzene	110		100		70-130	10		20
o-Chlorotoluene	110		100		70-130	10		20
p-Chlorotoluene	110		100		70-130	10		20
1,2-Dibromo-3-chloropropane	93		95		41-144	2		20
Hexachlorobutadiene	97		95		63-130	2		20
Isopropylbenzene	100		100		70-130	0		20
p-Isopropyltoluene	110		100		70-130	10		20
Naphthalene	94		92		70-130	2		20
n-Propylbenzene	110		100		69-130	10		20
1,2,3-Trichlorobenzene	95		94		70-130	1		20
1,2,4-Trichlorobenzene	94		94		70-130	0		20
1,3,5-Trimethylbenzene	110		100		64-130	10		20
1,2,4-Trimethylbenzene	110		100		70-130	10		20
1,4-Dioxane	102		104		56-162	2		20
p-Diethylbenzene	100		100		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 321 WARBURTON AVE.

Project Number: 2221378

Lab Number: L2432795

Report Date: 06/20/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03-10 Batch: WG1935128-3 WG1935128-4								
p-Ethyltoluene	100		100		70-130	0		20
1,2,4,5-Tetramethylbenzene	100		99		70-130	1		20
Ethyl ether	89		90		59-134	1		20
trans-1,4-Dichloro-2-butene	87		87		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	106		111		70-130
Toluene-d8	102		101		70-130
4-Bromofluorobenzene	97		97		70-130
Dibromofluoromethane	103		104		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 321 WARBURTON AVE.
Project Number: 2221378

Lab Number: L2432795
Report Date: 06/20/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1935682-3 WG1935682-4								
Methylene chloride	100		89		70-130	12		20
1,1-Dichloroethane	100		88		70-130	13		20
Chloroform	110		93		70-130	17		20
Carbon tetrachloride	110		97		63-132	13		20
1,2-Dichloropropane	96		83		70-130	15		20
Dibromochloromethane	100		89		63-130	12		20
1,1,2-Trichloroethane	100		90		70-130	11		20
Tetrachloroethene	92		79		70-130	15		20
Chlorobenzene	110		92		75-130	18		20
Trichlorofluoromethane	90		77		62-150	16		20
1,2-Dichloroethane	110		95		70-130	15		20
1,1,1-Trichloroethane	110		97		67-130	13		20
Bromodichloromethane	100		91		67-130	9		20
trans-1,3-Dichloropropene	99		87		70-130	13		20
cis-1,3-Dichloropropene	93		82		70-130	13		20
1,1-Dichloropropene	100		89		70-130	12		20
Bromoform	100		89		54-136	12		20
1,1,2,2-Tetrachloroethane	120		100		67-130	18		20
Benzene	94		81		70-130	15		20
Toluene	100		88		70-130	13		20
Ethylbenzene	100		92		70-130	8		20
Chloromethane	75		65		64-130	14		20
Bromomethane	41		**36**	Q	39-139	13		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 321 WARBURTON AVE.
Project Number: 2221378

Lab Number: L2432795
Report Date: 06/20/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1935682-3 WG1935682-4								
Vinyl chloride	76		66		55-140	14		20
Chloroethane	84		71		55-138	17		20
1,1-Dichloroethene	87		74		61-145	16		20
trans-1,2-Dichloroethene	98		85		70-130	14		20
Trichloroethene	100		91		70-130	9		20
1,2-Dichlorobenzene	110		98		70-130	12		20
1,3-Dichlorobenzene	110		98		70-130	12		20
1,4-Dichlorobenzene	110		98		70-130	12		20
Methyl tert butyl ether	88		78		63-130	12		20
p/m-Xylene	100		90		70-130	11		20
o-Xylene	100		85		70-130	16		20
cis-1,2-Dichloroethene	98		85		70-130	14		20
Dibromomethane	110		96		70-130	14		20
1,2,3-Trichloropropane	120		100		64-130	18		20
Acrylonitrile	85		76		70-130	11		20
Styrene	100		90		70-130	11		20
Dichlorodifluoromethane	94		83		36-147	12		20
Acetone	110		110		58-148	0		20
Carbon disulfide	92		74		51-130	**22**	Q	20
2-Butanone	94		86		63-138	9		20
Vinyl acetate	100		88		70-130	13		20
4-Methyl-2-pentanone	80		71		59-130	12		20
2-Hexanone	75		70		57-130	7		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 321 WARBURTON AVE.
Project Number: 2221378

Lab Number: L2432795
Report Date: 06/20/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1935682-3 WG1935682-4								
Bromochloromethane	95		84		70-130	12		20
2,2-Dichloropropane	100		89		63-133	12		20
1,2-Dibromoethane	100		91		70-130	9		20
1,3-Dichloropropane	100		92		70-130	8		20
1,1,1,2-Tetrachloroethane	100		90		64-130	11		20
Bromobenzene	110		92		70-130	18		20
n-Butylbenzene	120		110		53-136	9		20
sec-Butylbenzene	120		110		70-130	9		20
tert-Butylbenzene	120		100		70-130	18		20
o-Chlorotoluene	120		110		70-130	9		20
p-Chlorotoluene	120		110		70-130	9		20
1,2-Dibromo-3-chloropropane	100		91		41-144	9		20
Hexachlorobutadiene	100		84		63-130	17		20
Isopropylbenzene	120		100		70-130	18		20
p-Isopropyltoluene	120		100		70-130	18		20
Naphthalene	100		91		70-130	9		20
n-Propylbenzene	120		100		69-130	18		20
1,2,3-Trichlorobenzene	98		88		70-130	11		20
1,2,4-Trichlorobenzene	97		84		70-130	14		20
1,3,5-Trimethylbenzene	120		100		64-130	18		20
1,2,4-Trimethylbenzene	120		100		70-130	18		20
1,4-Dioxane	104		92		56-162	12		20
p-Diethylbenzene	110		97		70-130	13		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 321 WARBURTON AVE.

Project Number: 2221378

Lab Number: L2432795

Report Date: 06/20/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1935682-3 WG1935682-4								
p-Ethyltoluene	120		100		70-130	18		20
1,2,4,5-Tetramethylbenzene	110		94		70-130	16		20
Ethyl ether	79		67		59-134	16		20
trans-1,4-Dichloro-2-butene	110		96		70-130	14		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	113		113		70-130
Toluene-d8	104		103		70-130
4-Bromofluorobenzene	111		111		70-130
Dibromofluoromethane	105		105		70-130

METALS

Project Name: 321 WARBURTON AVE.
Lab Number: L2432795
Project Number: 2221378
Report Date: 06/20/24

SAMPLE RESULTS

Lab ID: L2432795-11
Client ID: MW-2-20240611
Sample Location: YONKERS, NY
Date Collected: 06/11/24 08:41
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Hardness (by calculation) - Mansfield Lab											
Hardness	282.4		mg/l	0.5400	NA	1	06/16/24 15:55	06/19/24 17:34	EPA 3005A	1,6020B	NTB

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

SAMPLE RESULTS

Lab ID: L2432795-12 Date Collected: 06/11/24 11:35

Client ID: MW-4-20240611 Date Received: 06/11/24

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Hardness (by calculation) - Mansfield Lab											
Hardness	513.8		mg/l	0.5400	NA	1	06/16/24 15:55	06/19/24 17:39	EPA 3005A	1,6020B	NTB

Project Name: 321 WARBURTON AVE.
Lab Number: L2432795
Project Number: 2221378
Report Date: 06/20/24

SAMPLE RESULTS

Lab ID: L2432795-13
Client ID: MW-6-20240611
Sample Location: YONKERS, NY
Date Collected: 06/11/24 10:15
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Hardness (by calculation) - Mansfield Lab											
Hardness	326.3		mg/l	0.5400	NA	1	06/16/24 15:55	06/19/24 17:44	EPA 3005A	1,6020B	NTB

Project Name: 321 WARBURTON AVE.
Project Number: 2221378
Lab Number: L2432795
Report Date: 06/20/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness (by calculation) - Mansfield Lab for sample(s): 11-13 Batch: WG1934994-1										
Hardness	ND		mg/l	0.5400	NA	1	06/16/24 15:55	06/17/24 10:27	1,6020B	EJF

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 321 WARBURTON AVE.

Project Number: 2221378

Lab Number: L2432795

Report Date: 06/20/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Hardness (by calculation) - Mansfield Lab	Associated sample(s): 11-13		Batch: WG1934994-2					
Hardness	105		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: 321 WARBURTON AVE.
Project Number: 2221378

Lab Number: L2432795
Report Date: 06/20/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Hardness (by calculation) - Mansfield Lab Associated sample(s): 11-13 QC Batch ID: WG1934994-3 WG1934994-4 QC Sample: L2432682-03 Client ID: MS Sample												
Hardness	260.8	66.2	416.9	**236**	Q	419.1	**239**	Q	75-125	1		20

INORGANICS
&
MISCELLANEOUS

Project Name: 321 WARBURTON AVE.
Project Number: 2221378
Lab Number: L2432795
Report Date: 06/20/24

SAMPLE RESULTS

Lab ID: L2432795-11
Client ID: MW-2-20240611
Sample Location: YONKERS, NY
Sample Depth:
Matrix: Water

Date Collected: 06/11/24 08:41
Date Received: 06/11/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	119.		mg CaCO3/L	2.00	NA	1	-	06/16/24 10:54	121,2320B	MRW
Nitrogen, Nitrate/Nitrite	7.3		mg/l	0.10	0.046	1	-	06/13/24 05:45	121,4500NO3-F	KAF
Total Organic Carbon	1.3		mg/l	1.0	0.19	2	-	06/13/24 02:51	1,9060A	DEW
Iron, Ferrous	ND		mg/l	0.50	0.056	1	-	06/12/24 07:02	121,3500FE-B	CAR
Anions by Ion Chromatography - Westborough Lab										
Chloride	158.		mg/l	5.00	0.839	10	-	06/15/24 11:28	44,300.0	CVN
Sulfate	41.6		mg/l	1.00	0.454	1	-	06/15/24 14:54	44,300.0	CVN

Project Name: 321 WARBURTON AVE.
Project Number: 2221378

Lab Number: L2432795
Report Date: 06/20/24

SAMPLE RESULTS

Lab ID: L2432795-12
Client ID: MW-4-20240611
Sample Location: YONKERS, NY

Date Collected: 06/11/24 11:35
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	277.		mg CaCO3/L	2.00	NA	1	-	06/16/24 11:02	121,2320B	MRW
Nitrogen, Nitrate/Nitrite	3.4		mg/l	0.10	0.046	1	-	06/13/24 05:47	121,4500NO3-F	KAF
Total Organic Carbon	1.0		mg/l	0.50	0.09	1	-	06/13/24 02:51	1,9060A	DEW
Iron, Ferrous	0.080	J	mg/l	0.50	0.056	1	-	06/12/24 07:02	121,3500FE-B	CAR
Anions by Ion Chromatography - Westborough Lab										
Chloride	341.		mg/l	5.00	0.839	10	-	06/15/24 11:40	44,300.0	CVN
Sulfate	55.7		mg/l	1.00	0.454	1	-	06/15/24 15:06	44,300.0	CVN

Project Name: 321 WARBURTON AVE.
Project Number: 2221378

Lab Number: L2432795
Report Date: 06/20/24

SAMPLE RESULTS

Lab ID: L2432795-13
Client ID: MW-6-20240611
Sample Location: YONKERS, NY

Date Collected: 06/11/24 10:15
Date Received: 06/11/24
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	110.		mg CaCO3/L	2.00	NA	1	-	06/16/24 11:09	121,2320B	MRW
Nitrogen, Nitrate/Nitrite	5.9		mg/l	0.10	0.046	1	-	06/13/24 05:52	121,4500NO3-F	KAF
Total Organic Carbon	0.36	J	mg/l	0.50	0.09	1	-	06/13/24 02:51	1,9060A	DEW
Iron, Ferrous	ND		mg/l	0.50	0.056	1	-	06/12/24 07:02	121,3500FE-B	CAR
Anions by Ion Chromatography - Westborough Lab										
Chloride	367.		mg/l	5.00	0.839	10	-	06/15/24 11:53	44,300.0	CVN
Sulfate	40.1		mg/l	1.00	0.454	1	-	06/15/24 15:18	44,300.0	CVN

Project Name: 321 WARBURTON AVE. **Lab Number:** L2432795

Project Number: 2221378 **Report Date:** 06/20/24

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 11-13 Batch: WG1933095-1										
Iron, Ferrous	ND		mg/l	0.50	0.056	1	-	06/12/24 07:01	121,3500FE-B	CAR
General Chemistry - Westborough Lab for sample(s): 11-13 Batch: WG1933613-1										
Nitrogen, Nitrate/Nitrite	ND		mg/l	0.10	0.046	1	-	06/13/24 02:59	121,4500NO3-F	KAF
General Chemistry - Westborough Lab for sample(s): 11-13 Batch: WG1933621-1										
Total Organic Carbon	ND		mg/l	0.50	0.09	1	-	06/13/24 02:51	1,9060A	DEW
Anions by Ion Chromatography - Westborough Lab for sample(s): 11-13 Batch: WG1934806-1										
Chloride	0.242	J	mg/l	0.500	0.083	1	-	06/15/24 09:27	44,300.0	CVN
Sulfate	ND		mg/l	1.00	0.454	1	-	06/15/24 09:27	44,300.0	CVN
General Chemistry - Westborough Lab for sample(s): 11-13 Batch: WG1934939-5										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	06/16/24 12:02	121,2320B	MRW

Lab Control Sample Analysis

Batch Quality Control

Project Name: 321 WARBURTON AVE.

Project Number: 2221378

Lab Number: L2432795

Report Date: 06/20/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 11-13 Batch: WG1933095-2								
Iron, Ferrous	92		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 11-13 Batch: WG1933613-2								
Nitrogen, Nitrate/Nitrite	100		-		90-110	-		20
General Chemistry - Westborough Lab Associated sample(s): 11-13 Batch: WG1933621-2								
Total Organic Carbon	101		-		90-110	-		
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 11-13 Batch: WG1934806-2								
Chloride	102		-		90-110	-		
Sulfate	99		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 11-13 Batch: WG1934939-6								
Alkalinity, Total	108		-		90-110	-		10

Matrix Spike Analysis
Batch Quality Control

Project Name: 321 WARBURTON AVE.
Project Number: 2221378

Lab Number: L2432795
Report Date: 06/20/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 11-13 QC Batch ID: WG1933095-4 QC Sample: L2432795-11 Client ID: MW-2-20240611												
Iron, Ferrous	ND	1	0.92	92		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 11-13 QC Batch ID: WG1933613-4 QC Sample: L2432940-01 Client ID: MS Sample												
Nitrogen, Nitrate/Nitrite	0.27	4	4.2	98		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 11-13 QC Batch ID: WG1933621-4 QC Sample: L2432304-01 Client ID: MS Sample												
Total Organic Carbon	0.66	16	19	116		-	-		80-120	-		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 11-13 QC Batch ID: WG1934806-3 QC Sample: L2433740-01 Client ID: MS Sample												
Chloride	14.2	4	17.6	**85**	Q	-	-		90-110	-		18
Sulfate	15.5	8	22.6	**89**	Q	-	-		90-110	-		20
General Chemistry - Westborough Lab Associated sample(s): 11-13 QC Batch ID: WG1934939-8 QC Sample: L2431182-01 Client ID: MS Sample												
Alkalinity, Total	26.9	100	125	98		-	-		86-116	-		10

Lab Duplicate Analysis
Batch Quality Control

Project Name: 321 WARBURTON AVE.
Project Number: 2221378

Lab Number: L2432795
Report Date: 06/20/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 11-13 QC Batch ID: WG1933095-3 QC Sample: L2432795-11 Client ID: MW-2-20240611						
Iron, Ferrous	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 11-13 QC Batch ID: WG1933613-3 QC Sample: L2432940-01 Client ID: DUP Sample						
Nitrogen, Nitrate/Nitrite	0.27	0.23	mg/l	16		20
General Chemistry - Westborough Lab Associated sample(s): 11-13 QC Batch ID: WG1933621-3 QC Sample: L2432304-01 Client ID: DUP Sample						
Total Organic Carbon	0.66	0.58	mg/l	13		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 11-13 QC Batch ID: WG1934806-4 QC Sample: L2433740-01 Client ID: DUP Sample						
Chloride	14.2	14.2	mg/l	0		18
Sulfate	15.5	15.6	mg/l	1		20
General Chemistry - Westborough Lab Associated sample(s): 11-13 QC Batch ID: WG1934939-7 QC Sample: L2431182-01 Client ID: DUP Sample						
Alkalinity, Total	26.9	26.4	mg CaCO3/L	2		10

Project Name: 321 WARBURTON AVE.
Project Number: 2221378

Lab Number: L2432795
Report Date: 06/20/24

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2432795-01A	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2432795-01B	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2432795-01C	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2432795-02A	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2432795-02B	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2432795-02C	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2432795-03A	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2432795-03B	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2432795-03C	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2432795-04A	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2432795-04B	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2432795-04C	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2432795-05A	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2432795-05B	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2432795-05C	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2432795-06A	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2432795-06B	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2432795-06C	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2432795-07A	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2432795-07B	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2432795-08A	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2432795-08B	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2432795-08C	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: 321 WARBURTON AVE.
Project Number: 2221378

Lab Number: L2432795
Report Date: 06/20/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2432795-09A	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2432795-09B	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2432795-09C	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2432795-10A	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2432795-10B	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L2432795-11A	Vial H2SO4 preserved	A	NA		2.2	Y	Absent		TOC-9060(28)
L2432795-11B	Vial H2SO4 preserved	A	NA		2.2	Y	Absent		TOC-9060(28)
L2432795-11C	Vial H2SO4 preserved	A	NA		2.2	Y	Absent		TOC-9060(28)
L2432795-11D	Plastic 250ml unpreserved/No Headspace	A	NA		2.2	Y	Absent		ALK-T-2320(14)
L2432795-11E	Plastic 250ml unpreserved	A	7	7	2.2	Y	Absent		SO4-300(28),CL-300(28),FERROUS(1)
L2432795-11F	Plastic 250ml HNO3 preserved	A	<2	<2	2.2	Y	Absent		HARDT-6020(180)
L2432795-11G	Plastic 250ml H2SO4 preserved	A	<2	<2	2.2	Y	Absent		NO3/NO2-4500(28)
L2432795-11H	Plastic 250ml Zn Acetate/NaOH preserved	A	>9	>9	2.2	Y	Absent		SUB-SULFIDE()
L2432795-11I	Plastic 250ml Zn Acetate/NaOH preserved	A	>9	>9	2.2	Y	Absent		SUB-SULFIDE()
L2432795-12A	Vial H2SO4 preserved	A	NA		2.2	Y	Absent		TOC-9060(28)
L2432795-12B	Vial H2SO4 preserved	A	NA		2.2	Y	Absent		TOC-9060(28)
L2432795-12C	Vial H2SO4 preserved	A	NA		2.2	Y	Absent		TOC-9060(28)
L2432795-12D	Plastic 250ml unpreserved/No Headspace	A	NA		2.2	Y	Absent		ALK-T-2320(14)
L2432795-12E	Plastic 250ml unpreserved	A	7	7	2.2	Y	Absent		SO4-300(28),CL-300(28),FERROUS(1)
L2432795-12F	Plastic 250ml HNO3 preserved	A	<2	<2	2.2	Y	Absent		HARDT-6020(180)
L2432795-12G	Plastic 250ml H2SO4 preserved	A	<2	<2	2.2	Y	Absent		NO3/NO2-4500(28)
L2432795-12H	Plastic 250ml Zn Acetate/NaOH preserved	A	>9	>9	2.2	Y	Absent		SUB-SULFIDE()
L2432795-12I	Plastic 250ml Zn Acetate/NaOH preserved	A	>9	>9	2.2	Y	Absent		SUB-SULFIDE()
L2432795-13A	Vial H2SO4 preserved	A	NA		2.2	Y	Absent		TOC-9060(28)
L2432795-13B	Vial H2SO4 preserved	A	NA		2.2	Y	Absent		TOC-9060(28)
L2432795-13C	Vial H2SO4 preserved	A	NA		2.2	Y	Absent		TOC-9060(28)
L2432795-13D	Plastic 250ml unpreserved/No Headspace	A	NA		2.2	Y	Absent		ALK-T-2320(14)
L2432795-13E	Plastic 250ml unpreserved	A	7	7	2.2	Y	Absent		SO4-300(28),CL-300(28),FERROUS(1)

*Values in parentheses indicate holding time in days

Project Name: 321 WARBURTON AVE.
Project Number: 2221378

Lab Number: L2432795
Report Date: 06/20/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2432795-13F	Plastic 250ml HNO3 preserved	A	<2	<2	2.2	Y	Absent		HARDT-6020(180)
L2432795-13G	Plastic 250ml H2SO4 preserved	A	<2	<2	2.2	Y	Absent		NO3/NO2-4500(28)
L2432795-13H	Plastic 250ml Zn Acetate/NaOH preserved	A	>9	>9	2.2	Y	Absent		SUB-SULFIDE()
L2432795-13I	Plastic 250ml Zn Acetate/NaOH preserved	A	>9	>9	2.2	Y	Absent		SUB-SULFIDE()

*Values in parentheses indicate holding time in days

Project Name:	321 WARBURTON AVE.	**Lab Number:**	L2432795
Project Number:	2221378	**Report Date:**	06/20/24

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	321 WARBURTON AVE.	**Lab Number:**	L2432795
Project Number:	2221378	**Report Date:**	06/20/24

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	321 WARBURTON AVE.	**Lab Number:**	L2432795
Project Number:	2221378	**Report Date:**	06/20/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	321 WARBURTON AVE.	**Lab Number:**	L2432795
Project Number:	2221378	**Report Date:**	06/20/24

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved Gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 6/12/24

ALPHA Job #: L2432795

Client Information

Client: LaBella Associates
Address: 45 Main St Suite 1018
Brooklyn, NY 11201
Phone: 516-225-0396
Fax:
Email: cchu@labellapc.com

Project Information

Project Name: 321 Warburton Ave
Project Location: Yonkers, NY
Project #: 2221378
(Use Project name as Project #) ☐
Project Manager: Cynthia Chu
ALPHAQuote #:

Turn-Around Time

Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☑ ASP-B
☑ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☑ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☐ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

TCL Volatiles - EPA 8260D

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL Volatiles	Sample Specific Comments
32795-01	MW-2 (60')	6-11-24	8:40	W	TTH	X	
02	MW-2 (66')		8:45			X	
03	MW-2 (73.5')		8:50			X	
04	MW-4 (59')		9:10			X	
05	MW-4 (66.5')		9:15			X	
06	MW-4 (73.5')		9:20			X	
07	MW-6 (56')		8:00			X	
08	MW-6 (65')		8:05			X	
09	MW-6 (73.5')		8:10			X	
10	TRIP BLANK						

Container Type: V
Preservative: A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	6-11-24	WIFI Pace	6/11/24 17:43
WIFI (Pace)	6/11/24 19:00		6/11/24 19:20
	6/11/24		6/11 2200
	6/12 120		6/12/24 0120

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 2

Date Rec'd in Lab: 6/12/24

ALPHA Job #: L2432795

Client Information
Client: LaBella Associates
Address: 45 Main St Suite 1018
Brooklyn, NY 11201
Phone: 516-225-0396
Fax:
Email: cchu@labellapc.com

Project Information
Project Name: 321 Warburton Ave
Project Location: Yonkers, NY
Project #: 2221378
(Use Project name as Project #)
Project Manager: Cynthia Chu
ALPHAQuote #:

Turn-Around Time
Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☑ ASP-B
☑ EQuIS (1 File) ☑ EQuIS (4 File)
☐ Other

Billing Information
☐ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Alkalinity - SM2320	Chloride by IC - EPA 300.0	Sulfide - SM 4500	Sulfate, IC - EPA 300.0	Ferrous Iron - SM 3500	Total organic carbon - EPA 9060A	Total Hardness by EPA 6020B	NO3/NO2 combined analysis	Sample Specific Comments	Total Bottle
32795-11	MW-2-20240611	6-11-24	8:41	W	TBH	X	X	X	X	X	X	X	X		
12	MW-4-20240611	↓	11:35	↓	TBH	X	X	X	X	X	X	X	X		
13	MW-6-20240611	↓	10:15	↓	TBH	X	X	X	X	X	X	X	X		

Container Type: P P P P P V P P
Preservative:

Preservative Code: A = None; B = HCl; C = HNO_3; D = H_2SO_4; E = NaOH; F = MeOH; G = $NaHSO_4$; H = $Na_2S_2O_3$; K/E = Zn Ac/NaOH; O = Other

Container Code: P = Plastic; A = Amber Glass; V = Vial; G = Glass; B = Bacteria Cup; C = Cube; O = Other; E = Encore; D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	6-11-24	WIFI Pace	6/11/24 17:43
WIFI (Pace)	6/11/24 19:00		6/11/24 2200
	6/11/24 8:12 120		6/12/24 0120

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

June 18, 2024

Reports
Alpha Analytical
8 Walkup Drive
Westborough, MA 01581

RE: Project: L2432795
Pace Project No.: 70301493

Dear Reports:

Enclosed are the analytical results for sample(s) received by the laboratory on June 13, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brianna D. Rivera
brianna.rivera@pacelabs.com
516-370-6007
Project Manager

Enclosures

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

CERTIFICATIONS

Project: L2432795
Pace Project No.: 70301493

Pace Analytical Services Long Island
575 Broad Hollow Rd, Melville, NY 11747
Connecticut Certification #: PH-0435
Delaware Certification # NY 10478
Maryland Certification #: 208
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987
New Jersey Certification #: NY158
New York Certification #: 10478 Primary Accrediting Body
Pennsylvania Certification #: 68-00350
Rhode Island Certification #: LAO00340
Virginia Certification # 460302

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

SAMPLE SUMMARY

Project: L2432795
Pace Project No.: 70301493

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70301493001	**MW-2-20240611**	Water	06/11/24 08:41	06/13/24 08:00
70301493002	**MW-4-20240611**	Water	06/11/24 11:35	06/13/24 08:00
70301493003	**MW-6-20240611**	Water	06/11/24 10:15	06/13/24 08:00

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

SAMPLE ANALYTE COUNT

Project: L2432795
Pace Project No.: 70301493

Lab ID	Sample ID	Method	Analysts	Analytes Reported
70301493001	**MW-2-20240611**	SM22 4500-S2 F	CEA	1
70301493002	**MW-4-20240611**	SM22 4500-S2 F	CEA	1
70301493003	**MW-6-20240611**	SM22 4500-S2 F	CEA	1

PACE-MV = Pace Analytical Services - Melville

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: L2432795
Pace Project No.: 70301493

Sample: MW-2-20240611 **Lab ID: 70301493001** Collected: 06/11/24 08:41 Received: 06/13/24 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<2.0**	mg/L	2.0	0.20	1		06/17/24 15:07		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: L2432795
Pace Project No.: 70301493

Sample: MW-4-20240611 **Lab ID: 70301493002** Collected: 06/11/24 11:35 Received: 06/13/24 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<2.0**	mg/L	2.0	0.20	1		06/17/24 15:08		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

ANALYTICAL RESULTS

Project: L2432795
Pace Project No.: 70301493

Sample: MW-6-20240611 **Lab ID: 70301493003** Collected: 06/11/24 10:15 Received: 06/13/24 08:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric	Analytical Method: SM22 4500-S2 F Pace Analytical Services - Melville								
Sulfide	**<2.0**	mg/L	2.0	0.20	1		06/17/24 15:09		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA

Project: L2432795
Pace Project No.: 70301493

QC Batch: 351937
QC Batch Method: SM22 4500-S2 F
Analysis Method: SM22 4500-S2 F
Analysis Description: 4500S2F W Sulfide Iodometric
Laboratory: Pace Analytical Services - Melville
Associated Lab Samples: 70301493001, 70301493002, 70301493003

METHOD BLANK: 1822674 Matrix: Water
Associated Lab Samples: 70301493001, 70301493002, 70301493003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	2.0	0.20	06/17/24 14:52	

LABORATORY CONTROL SAMPLE & LCSD: 1822675 1822701

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Sulfide	mg/L	14	14.0	14.0	100	100	85-115	0	20	

LABORATORY CONTROL SAMPLE & LCSD: 1822675 1822702

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Sulfide	mg/L	14	14.0	14.0	100	100	85-115	0	20	

LABORATORY CONTROL SAMPLE & LCSD: 1822675 1822703

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Sulfide	mg/L	14	14.0	14.0	100	100	85-115	0	20	

LABORATORY CONTROL SAMPLE & LCSD: 1822675 1822704

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Sulfide	mg/L	14	14.0	14.0	100	100	85-115	0	20	

SAMPLE DUPLICATE: 1822678

Parameter	Units	70301297003 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide	mg/L	<0.20	<2.0		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALIFIERS

Project: L2432795
Pace Project No.: 70301493

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
516-370-6000

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2432795
Pace Project No.: 70301493

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70301493001	**MW-2-20240611**	SM22 4500-S2 F	351937		
70301493002	**MW-4-20240611**	SM22 4500-S2 F	351937		
70301493003	**MW-6-20240611**	SM22 4500-S2 F	351937		

WO#: 70301493

70301493

World Class Chemistry

Subcontract Chain of Custody

Pace Analytical (Melville)
575 Broad Hollow Road
Melville, NY 11747

Alpha Job Number
L2432795

Client Information

Client: Alpha Analytical Labs
Address: Eight Walkup Drive
Westborough, MA 01581-1019

Phone: 201.428.2601
Email: Nicole.Galamb@pacelabs.com

Project Information

Project Location: NY
Project Manager: Nicole Galamb

Turnaround & Deliverables Information

Due Date:
Deliverables:

Regulatory Requirements/Report Limits

State/Federal Program:
Regulatory Criteria: NY-AWQS

Project Specific Requirements and/or Report Requirements

Reference following Alpha Job Number on final report/deliverables: L2432795

Report to include Method Blank, LCS/LCSD:

Additional Comments: Invoices to: invoices@pacelabs.coupahost.com Reports to: west.subreports@pacelabs.com

Lab ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Batch QC
	MW-2-20240611	06-11-24 08:41	WATER	Sulfide	
	MW-4-20240611	06-11-24 11:35	WATER	Sulfide	
	MW-6-20240611	06-11-24 10:15	WATER	Sulfide	

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	6/12/24	[signature]	6/12 1800
[signature]	6/12 2200	[signature]	6/12/24 22:10
[signature]	6/4/24	[signature] Pace	6/13 4:10
[signature]	6/13 8:00	[signature] P-LI	6/13/24 8:20

Form No: AL_subcoc

DC#_Title: Excel Form Template
Effective Date:

WO#: 70301493
PM: BDR **Due Date: 06/20/24**
CLIENT: ALPHA

Client Name: Alpha Project

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ No Temperature Blank Present: ☐ Yes ☒ No
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziplo ☒ None ☐ Other Type of Ice: (Wet) Blue None

Thermometer Used: TH211 Correction Factor: -0.1 ☐ Samples on ice, cooling process has begun
Cooler Temperature(°C): 2.6 Cooler Temperature Corrected(°C): 2.5 Date/Time 5035A kits placed in freezer _____
Temp should be above freezing to 6.0°C

USDA Regulated Soil (☒ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Ye ☐ No

Did samples orignate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: WK 6/13/24

				COMMENTS:
Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No		6.
Rush Turn Around Time Requested	☐Yes	☑No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
-Pace Containers Used:	☑Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: SL WT OIL OTHER	☑Yes	☐No		12.

Date and Initials of person checking preservation: SH 6/13/24

All containers needing preservation have been checked.	☐Yes	☐No	☑N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot #				Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	☐Yes	☐No	☑N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sul	☐Yes	☐No	☑N/A	15.
Lead Acetate Strips Lot #				Positive for Sulfide? Y N
Headspace in ALK Bottle (>6mm):	☐Yes	☐No	☑N/A	
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	16.
Trip Blank Present:	☐Yes	☐No	☑N/A	17.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	

Client Notification/ Resolution: Field Data Required? Y / N
Person Contacted: Date/Time:
Comments/ Resolution:

* PM (Project Manager) review (which includes the SCUR) is documented electronically in LIMS.

Pace Analytical Services, LLC-Fairfield

General Chemistry - Quality Control

Sulfide		Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch BBF0907			Prepared & Analyzed: 6/17/2024							
BBF0907-BLK1		ND	0.0100	mg/L						
BBF0907-BS1		0.363	0.0100	mg/L	0.400		90.8	80-120		
BBF0907-DUP1	**Source: 24F0844-01**	0.0220	0.0100	mg/L		0.0220			0.00	20
BBF0907-MS1	**Source: 24F0844-01**	0.271	0.0100	mg/L	0.400	0.0220	62.2*	70-130		
BBF0907-MSD1	**Source: 24F0844-01**	0.277	0.0100	mg/L	0.400	0.0220	63.8*	70-130	2.19	20

8 8.1.

ND - Indicates compound analyzed for but not detected
J - Indicates estimated value
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard

D - Indicates result is based on a dilution
H - Indicates a Hold Time violation
P - Greater than 25% diff. between 2 GC columns.
MDL - Minimum detection limit, **RL** - Reporting limit

F-III

APPENDIX E

Groundwater Sampling Field Logs

LaBella
Powered by partnership.

300 State Street
Rochester, New York 14614
Telephone: (585) 454-6110
Facsimile: (585) 454-3066

WELL I.D.: MW-1

Project Name: Warburton Dry Cleaners Site
Location: 321 Warburton Ave, Yonkers NY
Project No.: 2221378
Sampled By: TBH/WC
Date: 06/10/2024
Weather: 70°F Sunny

WELL SAMPLING INFORMATION

Well Diameter: 2”
Depth of Well:
Measuring Point: Top of casing
Pump Type: Bladder pump

Static Water Level: 42.36 ft bgs
Length of Well Screen:
Depth to Top of Pump:
Tubing Type: ¼” HDPE

FIELD PARAMETER MEASUREMENT

Time	Pump Rate (mL/min)	Gallons Purged	Temp °C	Dissolved O_2 (mg/L) + 10%	Conductivity (mS/cm) +/- 3%	pH +/- 0.1	Redox (mV) +/- 10 mV	Turbidity (NTU) + 10%	Depth to Water Ft. BGS		Comments
10:43			16.2	2.20	1.701	10.60	16.1	74.0	42.36		
10:46			16.0	0.71	1.688	8.60	-99.1	48.8			
10:49			15.8	0.68	1.714	8.00	-99.0	26.3			
10:52		2.5	16.1	0.62	1.713	7.93	-89.8	15.20			
10:55			16.1	0.60	1.816	7.65	-80.0	10.0	43.64		

Total 2.5 Gallons Purged

Purge Time Start: 10:43 Purge Time End: 11:15 Final Static Water Level: 43.64’

OBSERVATIONS

Sampled at 10:57
DUP collected

LaBella
Powered by partnership.

300 State Street
Rochester, New York 14614
Telephone: (585) 454-6110
Facsimile: (585) 454-3066

WELL I.D.: MW-1D

Project Name: Warburton Dry Cleaners Site
Location: 321 Warburton Ave, Yonkers, NY
Project No.: 2221378
Sampled By: TBH/WC
Date: 06/10/2024
Weather: 70°F Sunny

WELL SAMPLING INFORMATION

Well Diameter: 2”
Depth of Well: 72.6’
Measuring Point: Top of casing
Pump Type: Bladder pump

Static Water Level: 41.9 ft bgs
Length of Well Screen:
Depth to Top of Pump:
Tubing Type: ¼” HDPE

FIELD PARAMETER MEASUREMENT

Time	Pump Rate (mL/min)	Gallons Purged	Temp °C	Dissolved O_2 (mg/L) + 10%	Conductivity (mS/cm) +/- 3%	pH +/- 0.1	Redox (mV) +/- 10 mV	Turbidity (NTU) + 10%	Depth to Water Ft. BGS		Comments
9:42			15.1	5.66	1.657	7.60	94.9	172	41.9		
9:45			15.1	5.58	1.664	7.00	97.5	94.0			
9:50		2	15.0	5.93	1.674	6.74	101.5	78.9			
9:54			15.7	5.50	1.672	6.52	108.0	25.11			
9:57			15.2	5.48	1.673	6.49	110.9	14.63	42.4		
10:00			15.1	5.41	1.673	6.47	112.6	8.43			
10:03		4	15.0	5.35	1.674	6.45	116.4	5.70			
10:05			14.8	5.32	1.674	6.41	118.4	6.80			

Total 5 Gallons Purged

Purge Time Start: 9:42 Purge Time End: 10:12 Final Static Water Level: 42.4 ft bgs

OBSERVATIONS

Sampled at 10:07

LaBella
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300 State Street
Rochester, New York 14614
Telephone: (585) 454-6110
Facsimile: (585) 454-3066

WELL I.D.: MW-2

Project Name: Warburton Dry Cleaners Site
Location: 321 Warburton Ave, Yonkers, NY
Project No.: 2221378
Sampled By: TBH/WC
Date: 06/11/2024
Weather: 75°F Sunny

WELL SAMPLING INFORMATION

Well Diameter: 2”
Depth of Well: 76’
Measuring Point: Top of casing
Pump Type: Bladder pump

Static Water Level: 59.0 ft bgs
Length of Well Screen:
Depth to Top of Pump:
Tubing Type: ¼” HDPE

FIELD PARAMETER MEASUREMENT

Time	Pump Rate (mL/min)	Gallons Purged	Temp °C	Dissolved O_2 (mg/L) + 10%	Conductivity (mS/cm) +/- 3%	pH +/- 0.1	Redox (mV) +/- 10 mV	Turbidity (NTU) + 10%	Depth to Water Ft. BGS		Comments
9:35			15.1		1.101	6.45	48.6	1000	59		
9:40		3	15.0		1.098	6.45	33.6	761			YSI restart 02 calibration
9:55			16.1	43.0	0.940	6.70	149.2	110	59.8		
9:58			15.9	3.85	0.938	6.33	140.4	30.6			
10:01		5	15.8	3.80	0.935	6.13	132.7	15.9			
10:04			15.9	3.78	0.937	6.04	127.2	10.8			
10:07			15.9	3.78	0.934	6.00	123.4	7.5	61.2		
10:10		7	16.1	3.76	0.936	5.97	121.4	5.27			
10:13			16.4	3.75	0.938	5.95	120.7	4.89			

Total 7 Gallons Purged

Purge Time Start: 9:35 Purge Time End: 10:20 Final Static Water Level: 61.2 ft bgs

OBSERVATIONS

Sample collected at 10:15 AM.

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300 State Street
Rochester, New York 14614
Telephone: (585) 454-6110
Facsimile: (585) 454-3066

WELL I.D.: MW-3

Project Name: Warburton Dry Cleaners Site
Location: 321 Warburton Ave, Yonkers, NY
Project No.: 2221378
Sampled By: TBH/WC
Date: 06/10/2024
Weather:

WELL SAMPLING INFORMATION

Well Diameter:	2”	Static Water Level:	29.8 ft bgs
Depth of Well:		Length of Well Screen:	
Measuring Point:	Top of casing	Depth to Top of Pump:	
Pump Type:	Bladder pump	Tubing Type:	¼” HDPE

FIELD PARAMETER MEASUREMENT

Time	Pump Rate (mL/min)	Gallons Purged	Temp °C	Dissolved O_2 (mg/L) + 10%	Conductivity (mS/cm) +/- 3%	pH +/- 0.1	Redox (mV) +/- 10 mV	Turbidity (NTU) + 10%	Depth to Water Ft. BGS		Comments
8:53			15.0	1.50	511	8.21	16.5	195.55	29.8		
8:56			14.6	0.59	508	8.28	-30.3	370.2			
8:59			14.8	0.42	499.2	8.37	-48	392.2			
9:02			14.8	0.37	496.5	8.42	-59.1	372.4		Dried up	
9:05				0.24	530	8.03	-79.8	163.8			
9:48			15.0	2.02	636	7.93	-79.2	44.69	37.8		
9:51			15.7	0.69	591	7.88	-91.1	62.4			
10:18			15.3	1.21	703	7.85	-90.8	31.14			
10:30			15.8	1.94	749	7.72	-61.8	398.4			
10:33			16.5	0.79	691	7.76	-98.6	168.4			
10:36			17.1	1.12	657	7.83	-80.7	128.5			
10:39		5	17.2	0.78	661	7.81	-82.33	81.60	37.5		
11:20			15.8	2.62	856	7.67	-134.3	9.42			
11:23			15.9	0.96	806	7.59	-152.8	15.8			
11:26			16.6	0.97	793	7.63	-138.4	28.6			
11:29			17.1	1.34	782	7.66	-109	25.14			
11:32			18.0	1.40	787	7.64	-106.2	19.92			
11:35			16.7	1.28	794	7.63	-109.9	17.25			
11:38			17.1	1.39	757	7.66	-100.0	19.69			
11:41		10	17.5	1.50	746	7.67	-98.3	20.67			
11:44			18.0	1.40	755	7.65	-104.2	22.46			

Total 10 Gallons Purged

Purge Time Start: 8:53 Purge Time End: 11:50 Final Static Water Level: 37.5 ft bgs

OBSERVATIONS

Sample collected at 11:45

LaBella
Powered by partnership.

300 State Street
Rochester, New York 14614
Telephone: (585) 454-6110
Facsimile: (585) 454-3066

WELL I.D.: MW-4

Project Name: Warburton Dry Cleaners Site
Location: 321 Warburton Ave, Yonkers, NY
Project No.: 2221378
Sampled By: TBH/WC
Date: 06/11/2024
Weather: 75°F Sunny

WELL SAMPLING INFORMATION

Well Diameter: 2”
Depth of Well:
Measuring Point: Top of casing
Pump Type: Bladder pump
Static Water Level: 58.35 ft bgs
Length of Well Screen:
Depth to Top of Pump:
Tubing Type: ¼” HDPE

FIELD PARAMETER MEASUREMENT

Time	Pump Rate (mL/min)	Gallons Purged	Temp °C	Dissolved O_2 (mg/L) + 10%	Conductivity (mS/cm) +/- 3%	pH +/- 0.1	Redox (mV) +/- 10 mV	Turbidity (NTU) + 10%	Depth to Water Ft. BGS		Comments
11:15		4	15.5	2.46	1.633	7.15	32.0	53.44	58.35		
11:18			15.8	2.25	1.646	6.96	9.60	47.64			
11:21			15.6	2.34	1.666	6.86	6.6	18.55			
11:24		7	15.5	2.64	1.689	6.71	11.0	15.20			
11:27			15.6	2.95	1.711	6.73	5.6	14.89			
11:30			15.6	2.95	1.725	6.66	5.8	11.85			
11:33			15.7	2.85	1.723	6.64	3.2	10.01			

Total 9 Gallons Purged

Purge Time Start: 11:10 Purge Time End: 11:40 Final Static Water Level:

OBSERVATIONS

Sampled at 11:35

LaBella
Powered by partnership.

300 State Street
Rochester, New York 14614
Telephone: (585) 454-6110
Facsimile: (585) 454-3066

WELL I.D.: MW-5

Project Name: Warburton Dry Cleaners Site
Location: 321 Warburton Ave, Yonkers, NY
Project No.: 2221378
Sampled By: TBH/WC
Date: 06/10/2024
Weather: 70 F Sunny

WELL SAMPLING INFORMATION

Well Diameter: 2”
Depth of Well: 76.7’
Measuring Point: Top of casing
Pump Type: Bladder pump

Static Water Level: 33.8 ft bgs
Length of Well Screen:
Depth to Top of Pump:
Tubing Type: ¼”HDPE

FIELD PARAMETER MEASUREMENT

Time	Pump Rate (mL/min)	Gallons Purged	Temp °C	Dissolved O_2 (mg/L) + 10%	Conductivity (mS/cm) +/- 3%	pH +/- 0.1	Redox (mV) +/- 10 mV	Turbidity (NTU) + 10%	Depth to Water Ft. BGS		Comments
11:56			16.5	2.68	1.009	10.7	-144.8	10.08	33.8		
11:59			14.7	3.22	1.597	8.08	32.1	6.66			
12:02			14.9	3.24	1.606	6.90	10.2	3.91			
12:04			14.8	3.40	1.610	6.70	4.9	3.27			
12:06		2	14.8	3.63	1.618	6.60	19.3	3.67			
12:08			14.8	3.92	1.627	6.51	28.2	3.74			
12:10			14.8	4.07	1.630	6.42	33.2	3.80			
12:12			14.6	4.27	1.630	6.39	40.3	24.0			
12:14		3	14.6	4.35	1.625	6.38	36.3	25.1			
12:16			14.6	4.44	1.629	6.39	28.2	26.1			
12:18			14.6	4.50	1.633	6.38	30.3	28.8			

Total 3.5 Gallons Purged

Purge Time Start: 11:56 Purge Time End: 12:25 Final Static Water Level: 33.83 ft bgs

OBSERVATIONS

Sampled at 12:20

LaBella
Powered by partnership.

300 State Street
Rochester, New York 14614
Telephone: (585) 454-6110
Facsimile: (585) 454-3066

WELL I.D.: MW-6

Project Name: Warburton Dry Cleaners Site
Location: 321 Warburton Ave, Yonkers NY
Project No.: 2221378
Sampled By: TBH/WC
Date: 6/11/24
Weather: 75° F Sunny

WELL SAMPLING INFORMATION

Well Diameter:	2”	Static Water Level:	55.55 ft bgs
Depth of Well:	76’	Length of Well Screen:	20’
Measuring Point:	Top of casing	Depth to Top of Pump:	
Pump Type:	Bladder pump	Tubing Type:	1/4” HDPE

FIELD PARAMETER MEASUREMENT

Time	Pump Rate (mL/min)	Gallons Purged	Temp °C	Dissolved O_2 (mg/L) + 10%	Conductivity (mS/cm) +/- 3%	pH +/- 0.1	Redox (mV) +/- 10 mV	Turbidity (NTU) + 10%	Depth to Water Ft. BGS		Comments
8:25		4	14.4	4.72	1.599	6.26	-30.1	71.3	55.55		
8:28			14.4	5.65	1.621	6.27	-12.8	49.0			
8:31			14.4	5.70	1.629	6.27	-10.1	40.54			
8:33			14.6	5.84	1.632	6.28	-5.9	31.54			
8:36		5	14.6	6.01	1.639	6.28	-3.2	28.74			
8:39			14.7	6.14	1.642	6.29	-1.0	28.56	55.56		

Total 5 Gallons Purged

Purge Time Start: 8:25 Purge Time End: 8:44 Final Static Water Level: 55.56 ft bgs

OBSERVATIONS

Sampled at 8:41