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SUBSURFACE INVESTIGATION REPORT

Pierce Arrow Apartments Site
157 Great Arrow Avenue
Buffalo, New York

July 26, 2017
File No. 21.0056831.10

PREPARED FOR:
Great Arrow Estates, LLC
Buffalo, New York

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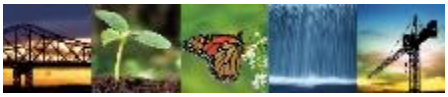

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VIA EMAIL

July 26, 2017
File No. 21.0056831.10

Mr. Matthew Connors
Great Arrow Estates, LLC
617 Main Street, Suite 350
Buffalo, New York 14203
email: matt@sinatraandcompany.com

Re: Subsurface Investigation Report
Pierce Arrow Apartments Site
157 Great Arrow Avenue
Buffalo, New York 14207 (Site)

Dear Mr. Connors:

GZA GeoEnvironmental of New York (GZA) prepared this report describing the results of our subsurface investigation at the above-referenced Site. The investigation was conducted at the request of Great Arrow Estates, LLC (Client) to further characterize the environmental conditions at the Site in support of application to the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP).

We trust this report satisfies your present needs. Should you have any questions or require additional information following your review, please do not hesitate to contact Jim Richert at (716) 844-7048.

Sincerely,

GZA GEOENVIRONMENTAL OF NEW YORK

Thomas Bohlen
Project Manager

James J. Richert, C.P.G.
Senior Project Manager

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Consultant Reviewer

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Principal

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1.0 INTRODUCTION

In accordance with our June 27, 2017 proposal, GZA GeoEnvironmental of New York (GZA) performed a subsurface investigation at the Pierce Arrow Apartments Site addressed as 157 Great Arrow Avenue in Buffalo, New York (Site) for Great Arrow Estates, LLC (Client). A Site Investigation Plan is attached as **Figure 1**.

1.1 BACKGROUND

Based upon our correspondence, GZA understands the Client desires to enter the Brownfield Cleanup Program (BCP) for Site redevelopment. Pierce Arrow Development, LLC previously agreed to a Brownfield Cleanup Agreement (BCA, BCP site number C915220) with the New York State Department of Environmental Conservation (NYSDEC). This BCA was later rescinded by NYSDEC due to non-implementation of the environmental work by the applicant.

GZA reviewed the following publicly available documents. GZA makes no statement or opinion regarding the quality, accuracy, or completeness of investigations or reporting conducted by others.

- GZA's Phase I ESA dated May 19, 2004, prepared for Tower Building Management.
- Lender Consulting Services' (LCS) Limited and Focused Subsurface Soil Investigation dated September 8, 2004, prepared for FourthofAugust, LLC.
- Malcolm Pirnie's NYSDEC-approved Remedial Investigation Work Plan (RIWP) prepared in 2007.

GZA reviewed the above referenced environmental data collected by LCS in 2004, which was part of a larger investigation of the former Pierce Arrow Manufacturing facility. That review suggested the number and distribution of samples from the Site that exceeded state soil cleanup objectives was limited and likely insufficient for NYSDEC-approved entry into the BCP.

GZA prepared the following scope of work with the intent to further characterize the Site in support of a new BCP application. Our scope of work was prepared to supplement the 2004 Subsurface Soil Investigation by LCS, and incorporates aspects of the NYSDEC-approved Remedial Investigation Work Plan (RIWP) prepared by Malcolm Pirnie in 2007.

1.2 PURPOSE AND SCOPE

The purpose of this subsurface investigation was to further characterize environmental media at the Site (soil and groundwater) in support of a new BCP application. To accomplish this, GZA developed a scope of work based on generally accepted standards of care and practices, which consisted of the following:

- Observed the completion of 13 soil probes (identified as SP-1 through SP-13) by TREC Environmental on July 11, 2017 (**Figure 1**). Temporary groundwater monitoring wells were installed at soil probes SP-9 and SP-13. Soil probes SP-1 through SP-4 were completed interior of the eastern portion of the Site building (western portions of the Site building were inaccessible to the soil probe rig). SP-5 was completed in a trench drain located exterior to the southeastern portion of the Site building. SP-6 was completed near a loading dock southwest of the Site building. SP-7 was completed on the southwestern portion of the Site in the access driveway/alley. SP-8 through SP-10, and SP-12 were completed near the exterior building perimeter proximate to former railroad lines. SP-11 was completed proximate to an existing former underground storage tank (UST) staged on the surface of northern

portion of the Site, south of the elevated earthen berm (**Figure 1**). According to information provided during our Phase I ESA dated May 2004, this UST formerly contained #2 fuel oil for a boiler on the east side of Building C.

SP-13 was completed on the northwestern portion of the Site. Mr. Thomas Wall, Great Arrow Management, LLC, provided GZA with historical Site plans the day of the scheduled investigation for utility clearance purposes. The historical plans indicated an "oil house", "coal storage area" and at least three historical tanks (aboveground or underground not specified) were formerly present on the northwestern portion of the Site (**Figure 1**). Copies of these provided plans are included in **Appendix B**. GZA notes these historical plans were not provided to GZA during the Phase I ESA conducted in May 2004. GZA was unaware of these historical Site features while developing the scope of this subsurface investigation.

- Collected subsurface soil samples continuously in 4-foot sample intervals from the ground surface to depths ranging from approximately 8 to 16 feet below ground surface (ft. bgs). Soil samples were collected using a macro-core sampler at each probe location.
- Collected near surface soil samples from an elevated earthen berm located on the northern portion of the Site. The samples were collected using a decontaminated hand shovel beneath the upper 6-inches of the berm.
- Field screened soil samples in 2-foot sample intervals using an organic vapor meter (OVM) equipped with a photoionization detector (PID) with a 10.6 eV ultraviolet lamp.
- Submitted 12 soil samples and two groundwater samples for analysis for Target Compound List (TCL) plus Final Commissioner's Policy-51 (CP-51) list volatile organic compounds (VOCs) via USEPA SW-846 Test Method 8260.
- Submitted 18 soil samples and two groundwater samples for analysis for semivolatile organic compounds (SVOCs) polycyclic aromatic hydrocarbons (PAHs) via USEPA SW-846 Test Method 8270.
- Submitted 16 soil samples for analysis for Resource Conservation and Recovery Act (RCRA)NYSDEC SCO list metals via USEPA SW-846 Test Methods 6010/7471.
- Submitted six soil samples for analysis for polychlorinated biphenyls (PCBs) via USEPA SW-846 Test Method 8082.
- Prepared this report, which summarizes the data collected during the Phase II ESA.

This report presents GZA's field observations, analytical results, and opinions and is subject to the limitations presented in Appendix A, and modification if subsequent information is developed by GZA or any other party.

2.0 FIELD METHODS

This section describes the field methods utilized as part of GZA's subsurface investigation.

2.1 SOIL PROBE INSTALLATIONS

Thirteen soil probes, designated SP-1 through SP-13 (**Figure 1**), were completed in readily accessible interior and exterior portions of the Site on July 11, 2017, utilizing a track-mounted Geoprobe direct-push rig (6620 UT) equipped with a 2-inch diameter, 48-inch long macro-core sampler.

New, dedicated, and disposable acetate sample liners were used inside of the macro-core sampler between sample intervals. The soil probes were advanced to total depths ranging from approximately 8 to 16 ft. bgs. Representative portions of the recovered soils from each boring were placed into zip-lock bags for further classification and headspace screening.

Upon completion of the soil probes (and removal of temporary monitoring wells), the soil probes were backfilled with associated soil cuttings and patched with asphalt (exterior) and concrete (interior) at the surface.

GZA prepared soil probe logs summarizing the general subsurface conditions that were observed at each probe location. These logs provide a summary description of the soils based on visual observations of the recovered soil's color and composition. Soil boring logs are included as Appendix B.

2.2 HEADSPACE SCREENING

Soil samples were generally collected in approximate two-foot intervals from the ground surface to the bottom of the soil probes. A representative portion of each sample was placed in a sealable plastic bag to allow organic vapors to accumulate in the headspace of the bag. The headspace in each bag was then screened for total organic vapors using a MiniRae 3000 OVM equipped with a PID with a 10.6 eV ultraviolet lamp. The OVM was calibrated in accordance with the manufacturer's recommendations utilizing a gas standard of isobutylene at a concentration of 100 parts per million (ppm). Ambient air at the Site was used to establish background organic vapor concentrations (approximately 0.0 ppm).

2.3 TEMPORARY MONITORING WELL INSTALLATIONS

Temporary one-inch diameter PVC groundwater monitoring wells were installed at locations where saturated soils were observed in the soil core [SP-9 (bottom of well (BOW) 16 ft bgs, screened 6 to 16 ft bgs) and SP-13 (BOW 8 ft bgs, screened 0 to 8 ft bgs)].

3.0 FIELD OBSERVATIONS

3.1 SOIL AND GROUNDWATER

Fill materials were not encountered in soil probes conducted beneath the concrete of the Site building (SP-1 through SP-4), beneath the concrete in the trench drain located southeast of the Site building (SP-5), or beneath the asphalt on the southwestern portion of the Site (SP-7).

Fill materials (*i.e.,* sands and gravels with varying amounts of silt, brick, and glass) were observed at the remaining completed soil probe locations (SP-6, SP-8 through SP-13) to depths ranging from one-foot to 13 ft bgs. Evidence of fill (fragments of concrete, asphalt, and wood) were observed in the elevated earthen berm located on the northern portion of the Site (sampling locations SS-1 through SS-4, Figure 1).

Native silty clay was observed to the bottom of all soil probes beneath the concrete, asphalt, or fill material (where encountered). Evidence of saturated fill materials were observed at SP-9 (approximately 11 to 13 ft bgs) and at SP-13 (approximately 3.5 to 4.5 ft bgs). The underlying native silty clays were observed to be moist (unsaturated). Evidence of saturated fill/soil was not observed at the remaining soil probe locations.

3.2 HEADSPACE SCREENING AND VISUAL/OLFACTORY EVIDENCE OF IMPACT

Elevated PID readings and visual/olfactory evidence of petroleum impact were observed at SP-13 from approximately 3.5 to 4.5 ft bgs (granular fill). The maximum PID screening result was 42.3 ppm. This result was obtained directly from the impacted fill in the acetate liner immediately after cutting/opening. A headspace result was not feasible, as the impacted material was immediately sampled and containerized for analysis. Visual and olfactory evidence of (*i.e.,* sheen and odor) suspected petroleum impact was observed from the groundwater sample collected from SP-13.

No elevated PID readings or visual/olfactory evidence of impact (except for the presence of fill) was observed from samples collected from the remaining soil probes.

Headspace results and visual and olfactory observations are provided on the soil probe logs included in **Appendix B**.

4.0 ANALYTICAL LABORATORY TESTING AND COMPARISON CRITERIA

Table 1 provides a summary of the samples submitted for laboratory analysis and the chemical analyses performed on each sample. Soil samples were selected for laboratory analysis based on the near-surface soil stratigraphy observed and the characteristics of potential contaminants in the environment. Soil and groundwater samples were submitted for analysis to Alpha Analytical in Westborough, MA. Typical chain-of-custody procedures were followed. The analytical laboratory report is provided in Appendix C.

Summaries of analytical results for the soil and groundwater samples are summarized in **Tables 2** and **3**, respectively.

4.1 ANALYTICAL COMPARISON CRITERIA - SOIL

The analytical test results were compared to the NYSDEC Part 375 Soil Cleanup Objectives (SCOs) for unrestricted, residential, restricted residential, commercial and industrial site uses of 6 NYCRR Part 375 (December 14, 2006). The SCOs are typically utilized at sites undergoing investigation and remediation through a NYSDEC program (i.e., Brownfield Cleanup Program, State Superfund Program). The Part 375 SCOs for unrestricted site use are concentrations of contaminants in soil that are considered protective of human health and the environment without requiring the use of engineering and/or institutional controls (i.e. soil caps/covers, environmental easement, vapor barrier, groundwater treatment systems). The Part 375 SCOs for more restricted site uses (residential, restricted residential, commercial, and industrial) are concentrations of contaminants in soil that require the use of long-term engineering and/or institutional controls to be considered protective of human health and the environment because of the increased levels of contamination to be left on-site.

4.2 ANALYTICAL COMPARISON CRITERIA – GROUNDWATER

The analytical test results for the groundwater sample were compared to the NYSDEC Class GA Groundwater Criteria (Division of Water Technical and Operational Guidance Series [TOGS 1.1.1], June 1998), consisting of both standards and guidance values. All fresh groundwater in New York State is classified as Class GA.

5.0 RESULTS

5.1 SOIL

Volatile Organic Compounds

VOCs were detected above method detection limits (MDLs) in 11 of the 12 samples submitted for analysis (**Table 2**). Most of the VOCs detected were at estimated concentrations (*i.e.* low level concentrations detected between the MDL and the reporting limit (RL)) and below NYSDEC Part 375 Unrestricted SCOs. GZA notes the MDLs for benzene and/or acetone slightly exceeded NYSDEC Part 375 Unrestricted SCOs in nine of the 12 samples submitted for analysis. Method detection limits for trans-1,2-dichloroethene slightly exceeded its respective NYSDEC Part 375 Unrestricted SCO for the sample submitted from SP-11 (3 ft bgs).

SP-13: Trichloroethene (TCE) was detected at SP-13 (4.5 ft bgs) at a concentration (23 mg/kg) exceeding its respective NYSDEC Part 375 Commercial SCO (10 mg/kg).

No other VOCs were detected at concentrations at or above the NYSDEC Part 375 SCOs for residential site use in the soil samples submitted for analysis.

Semivolatile Organic Compounds

SVOCs were detected above MDLs in all 12 samples submitted for analysis. SVOCs were detected below NYSDEC Part 375 Unrestricted SCOs in 10 of the 12 samples analyzed.

SP-6: Seventeen SVOCs were detected above MDLs from the sample from SP-6 (0 to 1 ft bgs), six of which exceeded their respective SCOs. Chrysene was detected at a concentration (2.4 mg/kg) slightly exceeding its respective NYSDEC Part 375 Residential SCO (1 mg/kg). Four compounds (benzo(a)anthracene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene) slightly exceeded their respective Part 375 Restricted Residential SCOs. Benzo(a)pyrene was detected at a concentration (2.1 mg/kg) exceeding its respective Part 375 Industrial SCO (1.1 mg/kg).

SP-10: Seventeen SVOCs were detected above MDLs from the sample from SP-10 (0 to 4.5 ft bgs), seven of which exceeded their respective SCOs. Chrysene and benzo(k)fluoranthene were detected at concentrations slightly exceeding their respective NYSDEC Part 375 Residential SCOs. Four compounds (benzo(a)anthracene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene) exceeded their respective Part 375 Restricted Residential SCOs. Benzo(a)pyrene was detected at a concentration (2.5 mg/kg) exceeding its respective Part 375 Industrial SCO (1.1 mg/kg).

No other SVOCs were detected at concentrations at or above the NYSDEC Part 375 SCOs for unrestricted site use in the soil samples submitted for analysis.

Metals

Metals were detected above MDLs in all 12 samples submitted for analysis. Metals were detected below Part 375 Unrestricted SCOs in five of the 12 samples analyzed; and below Part 375 Residential SCOs in six of the 12 samples analyzed.

SP-6: Manganese was detected at a concentration of 2,180 mg/kg, which exceeds its respective Part 375 Commercial SCO (2,000 mg/kg) at SP-6 (0 to 1 ft bgs).

SP-8: Four analytes (copper, nickel, selenium, and silver) exceeded their respective Part 375 Unrestricted SCOs at SP-8 (0 to 1 ft bgs). Cadmium was detected at a concentration of 4.2 mg/kg, which exceeds its respective Part 375 Residential SCO (2.5 mg/kg). Total chromium was detected at 1,510 mg/kg, which exceeds its respective Part 375 Commercial SCO (1,500 mg/kg for trivalent chromium; GZA notes that hexavalent chromium analysis was not conducted). Manganese was detected at a concentration of 38,600 mg/kg, which significantly exceeds its respective Part 375 Industrial SCO (10,000 mg/kg).

SP-10: Four analytes (arsenic, lead, mercury and nickel) exceeded their respective Part 375 Unrestricted SCOs at SP-10 (0 to 4.5 ft bgs). Copper was detected at 494 mg/kg, which exceeds its respective Part 375 Commercial SCO (270 mg/kg).

SP-11: Arsenic was detected at a concentration (52.7 mg/kg) that exceeded its respective Part 375 Industrial SCO (16 mg/kg) at SP-11 (0.5 to 4.5 ft bgs).

SP-12: Two analytes (arsenic and zinc) exceeded their respective Part 375 Unrestricted SCOs at SP-12 (0 to 3 ft bgs). Total chromium was detected at 45.8 mg/kg, which exceeds its respective Part 375 Residential SCO (36 mg/kg for trivalent chromium).

SP-13: Two analytes (copper and lead) exceeded their respective Part 375 Unrestricted SCOs at SP-13 (0 to 4.5 ft bgs). Total chromium was detected at 66.6 mg/kg, which exceeds its respective Part 375 Residential SCO (36 mg/kg for trivalent chromium).

Polychlorinated Biphenyls (PCBs)

PCBs were not detected above Part 375 Unrestricted SCOs in the six samples submitted for analysis.

5.2 NEAR SURFACE SOIL

Semivolatile Organic Compounds

SVOCs were detected above MDLs in all four samples submitted for analysis. SVOCs were detected below NYSDEC Part 375 Unrestricted SCOs in two of the four samples analyzed.

SS-1: Seventeen SVOCs were detected above MDLs from the sample from SS-1, seven of which exceeded their respective SCOs. Chrysene and benzo(k)fluoranthene were detected at concentrations exceeding their respective NYSDEC Part 375 Residential SCOs. Four compounds (benzo(a)anthracene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene) slightly exceeded their respective Part 375 Restricted Residential SCOs. Benzo(a)pyrene was detected at a concentration (2.7 mg/kg) exceeding its respective Part 375 Industrial SCO (1.1 mg/kg).

SS-4: Seventeen SVOCs were detected above MDLs from the sample from SP-4, five of which exceeded their respective SCOs. Chrysene was detected at a concentration (2.4 mg/kg) slightly exceeding its respective NYSDEC Part 375 Residential SCO (1 mg/kg). Three compounds (benzo(a)anthracene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene) exceeded their respective Part 375 Restricted Residential SCOs. Benzo(a)pyrene was detected at a concentration (1.5 mg/kg) slightly exceeding its respective Part 375 Industrial SCO (1.1 mg/kg).

No other SVOCs were detected at concentrations at or above the NYSDEC Part 375 SCOs for unrestricted site use in the near surface soil samples submitted for analysis.

Metals

Metals were detected above MDLs in all four samples submitted for analysis. Metals were detected below Part 375 Unrestricted SCOs in two of the four samples analyzed; and below Part 375 Residential SCOs in three of the four samples analyzed.

SS-2: Total chromium was detected at 277 mg/kg, which exceeds its respective Part 375 Restricted Residential SCO (180 mg/kg for trivalent chromium). Nickel was detected at a concentration of 482 mg/kg, which exceeds its respective Part 375 Commercial SCO (310 mg/kg).

5.3 GROUNDWATER

Volatile Organic Compounds

VOCs were detected above MDLs in both samples submitted for analysis (**Table 3**).

SP-9: Two VOCs (cis-1,2-dichloroethene and TCE) were detected at estimated concentrations and below NYSDEC Part 375 Unrestricted SCOs. No other VOCs were detected above MDLs from the groundwater sample submitted for analysis from SP-9.

SP-13: Four VOCs (acetone, 1,1-dichloroethane, cis-1,2-dichloroethene, and methylcyclohexane) were detected at concentrations below their respective Class GA criteria. Trichloroethene (TCE) was detected at a concentration of 28 ug/L exceeding its respective Class GA criterion (5 ug/L).

No other VOCs were detected at concentrations at or above MDLs in the groundwater samples submitted for analysis.

Semivolatile Organic Compounds

SVOCs were detected above MDLs in both samples submitted for analysis (**Table 3**).

SP-9: Fourteen SVOCs were detected above MDLs, six of which (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene) exceeded their respective Class GA criteria.

SP-13: Ten SVOCs were detected above MDLs, eight of which (anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, and pyrene) exceeded their respective Class GA criteria. GZA notes the MDL (8.4 ug/L) for benzo(k)fluoranthene exceeded its respective Class GA criterion (0.002 ug/L).

No other SVOCs were detected at concentrations at or above MDLs in the groundwater samples submitted for analysis.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The results of GZA's subsurface investigation identified VOC, SVOC, and metals impact to the Site soil and/or groundwater at concentrations that exceed NYSDEC Part 375 SCOs and/or Class GA Groundwater criteria (see **Tables 2 and 3**).

Field evidence of environmental impact (*i.e.,* elevated PID readings and visual/olfactory evidence) at SP-13 was observed. SP-13 was conducted on the northwestern portion of the Site proximate to a reported former oil house, coal storage area, and railroad lines. On behalf of the Site owner and in consultation with the Client, GZA notified NYSDEC of the historical release and Spill Number 1703633 was assigned to the Site. Subsequent analytical results identified TCE at concentrations that exceed Restricted Residential SCOs and Class GA groundwater criteria.

The significance of the impact at SP-13 is unknown. GZA recommends that additional investigation be conducted to better assess the magnitude and extent of the chlorinated organic impact identified. GZA also recommends this report be provided to NYSDEC for review in relation to Spill Number 1703633.

As with any property, should future site development/excavation encounter impacted soils, groundwater, and/or USTs, such would need to be properly addressed at that time.

Tables

Table 1
Analytical Sample Summary
Pierce Arrow Apartments
157 Great Arrow Avenue
Buffalo, New York

Location	Date Collected	Depth/ Interval (ft. bgs)	VOCs EPA Method 8260 TCL + CP-51	PAHs EPA Method 8270	Metals EPA Method 6010/7471 RCRA	PCBs EPA Method 6010/7471 RCRA	Area of Concern
SUBSURFACE SOIL SAMPLES							
SP-1	7/11/2017	0.67	X				Eastern interior of Site building
SP-1	7/11/2017	0.5-8		X	X		Eastern interior of Site building
SP-2	7/11/2017	3.5	X	X	X	X	Eastern interior of Site building
SP-3	7/11/2017	2	X				MS/MSD; Eastern interior of Site building
SP-3	7/11/2017	1-8		X	X		MS/MSD; Eastern interior of Site building
SP-5	7/11/2017	1	X				Subsurface Duplicate; trench drain south of Site building
SP-5	7/11/2017	1-8		X	X		Subsurface Duplicate; trench drain south of Site building
SP-6	7/11/2017	0.5	X				Dock southwest of Site building
SP-6	7/11/2017	0-1		X	X	X	Dock southwest of Site building
SP-7	7/11/2017	4	X				Southwestern portion of Site
SP-7	7/11/2017	4-8		X	X	X	Southwestern portion of Site
SP-8	7/11/2017	0.5	X				Railbed southeast of Site building
SP-8	7/11/2017	0-1		X	X	X	Railbed southeast of Site building
SP-9	7/11/2017	2	X				Railbed northeast of Site building
SP-9	7/11/2017	0-13		X	X	X	Railbed northeast of Site building
SP-10	7/11/2017	4	X				Railbed north of Site building
SP-10	7/11/2017	0-4.5		X	X		Railbed north of Site building
SP-11	7/11/2017	3	X				AST on northern portion of Site
SP-11	7/11/2017	0.5-4.5		X	X	X	AST on northern portion of Site
SP-12	7/11/2017	1.5	X				Parking lot north of Site building
SP-12	7/11/2017	0-3		X	X		Parking lot north of Site building
SP-13	7/11/2017	4.5	X				Parking lot north of Site building, east of historical oil house and southeast of historical tanks
SP-13	7/11/2017	0-4.5		X	X		Parking lot north of Site building, east of historical oil house and southeast of historical tanks
NEAR SURFACE SOIL SAMPLES							
SS-1	7/11/2017	0.5-1		X	X		MS/MSD; Northern earthen berm
SS-2	7/11/2017	0.5-1		X	X		Northern earthen berm
SS-3	7/11/2017	0.5-1		X	X		Surface Sample Duplicate; Northern earthen berm
SS-4	7/11/2017	0.5-1		X	X		Northern earthen berm
GROUNDWATER SAMPLES							
SP-9	7/11/2017	*6-16	X	X			Railbed northeast of Site building
SP-13	7/11/2017	*0-8	X	X			Parking lot north of Site building, east of historical oil house and southeast of historical tanks

Notes:
1. ft. bgs = feet below ground surface
2. VOCs = Volatile Organic Compounds
3. PAHs = Polycyclic Aromatic Hydrocarbons
4. TCL = Target Compound List
5. PCBs = Polychlorinated biphenyls
6. CP-51 = Final Commissioner's Policy-51
7. RCRA = Resource Conservation and Recovery Act
8. AST = Aboveground Storage Tank
9. MS/MSD = Matrix Spike/Matrix Spike Duplicate
10. EPA = Environmental Protection Agency
11. * = Depth interval represents the screened interval.

Table 2
Soil Analytical Testing Results Summary
Pierce Arrow Apartments
157 Great Arrow Avenue
Buffalo, New York

LOCATION						SP-1-8"-071117		SP-1-0.5-8-071117		SP-2-3.5-071117		SP-3-2-071117		SP-3-1-8-071117		SP-5-1-071117		SP-5-1-8-071117		SP-6-0.5-071117		SP-6-0-1-071117	
SAMPLING DATE						7/11/2017		7/11/2017		7/11/2017		7/11/2017		7/11/2017		7/11/2017		7/11/2017		7/11/2017		7/11/2017	
LAB SAMPLE ID						L1723613-01		L1723613-02		L1723613-03		L1723613-04		L1723613-05		L1723613-06		L1723613-07		L1723613-08		L1723613-09	
	Part 375 Soil Cleanup Objectives Unrestricted	Part 375 Soil Cleanup Objectives Residential	Part 375 Soil Cleanup Objectives Restricted Residential	Part 375 Soil Cleanup Objectives Commercial	Part 375 Soil Cleanup Objectives Industrial	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
General Chemistry																							
Solids, Total (%)						80.7		81.8		76.4		82.4		80.5		80.8		78.3		81.2		86.5	
Cyanide, Total (mg/kg)	*27*	**27**	**27**	**27**	**10000**	-	-	0.93	J	0.36	J	-	-	1.2	U	-	-	2.4	U	-	-	0.91	J
Polychlorinated Biphenyls by GC (mg/kg)																							
Aroclor 1254	*0.1*	**1**	**1**	**1**	**25**	-	-	-	-	0.043	U	-	-	-	-	-	-	-	-	-	-	0.026	J
Aroclor 1260	*0.1*	**1**	**1**	**1**	**25**	-	-	-	-	0.043	U	-	-	-	-	-	-	-	-	-	-	0.0245	J
PCBs, Total						-	-	-	-	0.043	U	-	-	-	-	-	-	-	-	-	-	0.0505	J
Semivolatile Organics by GC/MS (mg/kg)																							
Acenaphthene	*20*	**100**	**100**	**500**	**1000**	-	-	0.16	U	0.17	U	-	-	0.16	U	-	-	0.16	U	-	-	0.34	
Fluoranthene	*100*	**100**	**100**	**500**	**1000**	-	-	0.078	J	0.13	U	-	-	0.16		-	-	0.073	J	-	-	5.2	
Naphthalene	*12*	**100**	**100**	**500**	**1000**	-	-	0.2	U	0.21	U	-	-	0.2	U	-	-	0.026	J	-	-	0.11	J
Benzo(a)anthracene	*1*	**1**	**1**	**5.6**	**11**	-	-	0.032	J	0.13	U	-	-	0.08	J	-	-	0.035	J	-	-	**2.3**	
Benzo(a)pyrene	*1*	**1**	**1**	**1**	**1.1**	-	-	0.16	U	0.17	U	-	-	0.069	J	-	-	0.16	U	-	-	**2.1**	
Benzo(b)fluoranthene	*1*	**1**	**1**	**5.6**	**11**	-	-	0.12	U	0.13	U	-	-	0.081	J	-	-	0.04	J	-	-	**3.1**	
Benzo(k)fluoranthene	*0.8*	**1**	**3.9**	**56**	**110**	-	-	0.12	U	0.13	U	-	-	0.12	U	-	-	0.12	U	-	-	*0.95*	
Chrysene	*1*	**1**	**3.9**	**56**	**110**	-	-	0.03	J	0.13	U	-	-	0.07	J	-	-	0.037	J	-	-	**2.4**	
Acenaphthylene	*100*	**100**	**100**	**500**	**1000**	-	-	0.16	U	0.17	U	-	-	0.16	U	-	-	0.16	U	-	-	0.15	U
Anthracene	*100*	**100**	**100**	**500**	**1000**	-	-	0.12	U	0.13	U	-	-	0.12	U	-	-	0.12	U	-	-	0.6	
Benzo(ghi)perylene	*100*	**100**	**100**	**500**	**1000**	-	-	0.16	U	0.17	U	-	-	0.034	J	-	-	0.16	U	-	-	1.3	
Fluorene	*30*	**100**	**100**	**500**	**1000**	-	-	0.2	U	0.21	U	-	-	0.2	U	-	-	0.21	U	-	-	0.25	
Phenanthrene	*100*	**100**	**100**	**500**	**1000**	-	-	0.06	J	0.13	U	-	-	0.093	J	-	-	0.064	J	-	-	3.2	
Dibenzo(a,h)anthracene	*0.33*	**0.33**	**0.33**	**0.56**	**1.1**	-	-	0.12	U	0.13	U	-	-	0.12	U	-	-	0.12	U	-	-	**0.35**	
Indeno(1,2,3-cd)pyrene	*0.5*	**0.5**	**0.5**	**5.6**	**11**	-	-	0.16	U	0.17	U	-	-	0.037	J	-	-	0.16	U	-	-	**1.4**	
Pyrene	*100*	**100**	**100**	**500**	**1000**	-	-	0.065	J	0.022	J	-	-	0.14		-	-	0.061	J	-	-	4.2	
Dibenzofuran	*7*	**14**	**59**	**350**	**1000**	-	-	0.2	U	0.21	U	-	-	0.2	U	-	-	0.21	U	-	-	0.17	J
3-Methylphenol/4-Methylphenol	*0.33*	**34**	**100**	**500**	**1000**	-	-	0.29	U	0.31	U	-	-	0.29	U	-	-	0.3	U	-	-	0.28	U
Total Metals (mg/kg)																							
Arsenic, Total	*13*	**16**	**16**	**16**	**16**	-	-	4.25		4.64		-	-	5.41		-	-	5.86		-	-	4.41	
Barium, Total	*350*	**350**	**400**	**400**	**10000**	-	-	103		110		-	-	66.9		-	-	136		-	-	209	
Beryllium, Total	*7.2*	**14**	**72**	**590**	**2700**	-	-	0.563		0.615		-	-	0.416	J	-	-	0.476		-	-	1.54	
Cadmium, Total	*2.5*	**2.5**	**4.3**	**9.3**	**60**	-	-	0.71		0.782	J	-	-	0.734	J	-	-	0.905	J	-	-	0.324	J
Chromium Total (assumed all Trivalent)	*(1[a]/30[b])*	**(22[a]/36[b])**	**(110[a]/180[b])**	**(400[a]/1500[b])**	**(800[a]/6,800[b])**	-	-	13.8		16.9		-	-	13.2		-	-	18		-	-	7	
Copper, Total	*50*	**270**	**270**	**270**	**10000**	-	-	18		18.6		-	-	14.2		-	-	21.8		-	-	29.2	
Lead, Total	*63*	**400**	**400**	**1000**	**3900**	-	-	*122*		18.2		-	-	17.5		-	-	10.9		-	-	33.2	
Manganese, Total	*1600*	**2000**	**2000**	**10000**	**10000**	-	-	266		307		-	-	218		-	-	431		-	-	**2180**	
Mercury, Total	*0.18*	**0.81**	**0.81**	**2.8**	**5.7**	-	-	0.12		0.05	J	-	-	0.04	J	-	-	0.08	U	-	-	0.03	J
Nickel, Total	*30*	**140**	**310**	**310**	**10000**	-	-	16.8		17.4		-	-	13.3		-	-	23.1		-	-	6.32	
Selenium, Total	*3.9*	**36**	**180**	**1500**	**6800**	-	-	0.147	J	2.08	U	-	-	1.98	U	-	-	1.98	U	-	-	1.97	
Silver, Total	*2*	**36**	**180**	**1500**	**6800**	-	-	0.473	U	1.04	U	-	-	0.991	U	-	-	0.992	U	-	-	0.738	J
Zinc, Total	*109*	**2200**	**10000**	**10000**	**10000**	-	-	83.5		56.8		-	-	49.3		-	-	60.6		-	-	33.2	
Volatile Organics by 8260/5035 (mg/kg)																							
1,1-Dichloroethane	*0.27*	**19**	**26**	**240**	**480**	0.1	U	-	-	0.1	U	0.087	U	-	-	0.082	U	-	-	0.15	U	-	-
Benzene	*0.06*	**2.9**	**4.8**	**44**	**89**	*0.069* (Note 10)	U	-	-	*0.07* (Note 10)	U	0.058	U	-	-	*0.063* (Note 10)	U	-	-	*0.1* (Note 10)	U	-	-
Toluene	*0.7*	**100**	**100**	**500**	**1000**	0.1	U	-	-	0.1	U	0.087	U	-	-	0.082	U	-	-	0.033	J	-	-
Ethylbenzene	*1*	**30**	**41**	**390**	**780**	0.069	U	-	-	0.07	U	0.058	U	-	-	0.055	U	-	-	0.1	U	-	-
Chloromethane	*NV*	**NV**	**NV**	**NV**	**NV**	0.35	U	-	-	0.35	U	0.29	U	-	-	0.27	U	-	-	0.5	U	-	-
Bromomethane	*NV*	**NV**	**NV**	**NV**	**NV**	0.068	J	-	-	0.14	U	0.026	J	-	-	0.12	J	-	-	0.2	U	-	-
trans-1,2-Dichloroethene	*0.19*	**100**	**100**	**500**	**1000**	0.1	U	-	-	0.1	U	0.087	U	-	-	0.082	U	-	-	0.15	U	-	-
Trichloroethene	*0.47*	**10**	**21**	**200**	**400**	0.069	U	-	-	0.07	U	0.058	U	-	-	0.055	U	-	-	0.1	U	-	-
p/m-Xylene	*NV*	**NV**	**NV**	**NV**	**NV**	0.14	U	-	-	0.14	U	0.12	U	-	-	0.11	U	-	-	0.2	U	-	-
o-Xylene	*NV*	**NV**	**NV**	**NV**	**NV**	0.14	U	-	-	0.14	U	0.12	U	-	-	0.11	U	-	-	0.2	U	-	-
cis-1,2-Dichloroethene	*0.25*	**59**	**100**	**500**	**1000**	0.069	U	-	-	0.07	U	0.058	U	-	-	0.055	U	-	-	0.1	U	-	-
Acetone	*0.05*	**100**	**100**	**500**	**1000**	*0.69* (Note 10)	U	-	-	*0.7* (Note 10)	U	*0.58* (Note 10)	U	-	-	*0.55* (Note 10)	U	-	-	*0.46*	J	-	-
Carbon disulfide	*NV*	**100***	**NV**	**NV**	**NV**	0.69	U	-	-	0.7	U	0.58	U	-	-	0.18	J	-	-	1	U	-	-
n-Butylbenzene	*12*	**100**	**100**	**500**	**1000**	0.069	U	-	-	0.07	U	0.058	U	-	-	0.055	U	-	-	0.1	U	-	-
sec-Butylbenzene	*11*	**100**	**100**	**500**	**1000**	0.069	U	-	-	0.07	U	0.058	U	-	-	0.055	U	-	-	0.1	U	-	-
Isopropylbenzene	*NV*	**100**	**NV**	**NV**	**NV**	0.069	U	-	-	0.07	U	0.058	U	-	-	0.055	U	-	-	0.1	U	-	-
p-Isopropyltoluene	*NV*	**NV**	**NV**	**NV**	**NV**	0.069	U	-	-	0.07	U	0.058	U	-	-	0.055	U	-	-	0.1	U	-	-
Naphthalene	*12*	**100**	**100**	**500**	**1000**	0.35	U	-	-	0.35	U	0.29	U	-	-	0.018	J	-	-	0.022	J	-	-
n-Propylbenzene	*3.9*	**100**	**100**	**500**	**1000**	0.069	U	-	-	0.07	U	0.058	U	-	-	0.055	U	-	-	0.1	U	-	-
1,3,5-Trimethylbenzene	*8.4*	**47**	**52**	**190**	**380**	0.35	U	-	-	0.35	U	0.29	U	-	-	0.27	U	-	-	0.032	J	-	-
1,2,4-Trimethylbenzene	*3.6*	**47**	**52**	**190**	**380**	0.35	U	-	-	0.35	U	0.29	U	-	-	0.27	U	-	-	0.033	J	-	-
Methyl Acetate	*NV*	**NV**	**NV**	**NV**	**NV**	1.4	U	-	-	1.4	U	0.14	J	-	-	1.1	U	-	-	0.87	J	-	-
Cyclohexane	*NV*	**NV**	**NV**	**NV**	**NV**	1.4	U	-	-	1.4	U	1.2	U	-	-	1.1	U	-	-	0.24	J	-	-
Methyl cyclohexane	*NV*	**NV**	**NV**	**NV**	**NV**	0.28	U	-	-	0.28	U	0.23	U	-	-	0.22	U	-	-	0.82		-	-

Notes:
1. Compounds detected in one or more samples are presented on this table. Refer to Appendix C for a list of all compounds included in the analysis.
2. Analytical testing completed by Alpha Analytical in Westborough, MA.
3. ug/kg = parts per billion. mg/kg = parts per million. ft. bgs = feet below ground surface.
4. U Qualifier = not detected at a concentration at or above the laboratory's method detection limit. Method detection limit is indicated.
5. Part 375 Soil Cleanup Objectives are from 6 NYCRR Part 375, effective December 14, 2006, values current as of May 2007.
6. NL = Not Listed. NV = No Value.
7. J = Indicates an estimated value.
8. * Supplemental Soil Cleanup Objective for Residential Use, from NYSDEC CP-51 Soil Cleanup Guidance, Table 1, issued October 21, 2010.
9. "-" = Not Tested
10. Method detection limit exceeded Part 375 Unrestricted Criteria
11. [a] = hexavalent chromium
12. [b] = trivalent chromium
13. Results shown for SP-5-1 and SP-5-1-8 are the higher of the initial result or their respective duplicate sample.
14. Results shown for SS-3 are the higher of the initial result or its respective duplicate sample.

Table 2
Soil Analytical Testing Results Summary
Pierce Arrow Apartments
157 Great Arrow Avenue
Buffalo, New York

LOCATION						SP-7-4-071117		SP-7-4-8-071117		SP-8-0.5-071117		SP-8-0-1-071117		SP-9-2-071117		SP-9-0-13-071117		SP-10-4-071117		SP-10-0-4.5-071117		SP-11-3-071117	
SAMPLING DATE						7/11/2017		7/11/2017		7/11/2017		7/11/2017		7/11/2017		7/11/2017		7/11/2017		7/11/2017		7/11/2017	
LAB SAMPLE ID						L1723613-10		L1723613-11		L1723613-12		L1723613-13		L1723613-14		L1723613-15		L1723613-16		L1723613-17		L1723613-18	
	Part 375 Soil Cleanup Objectives Unrestricted	Part 375 Soil Cleanup Objectives Residential	Part 375 Soil Cleanup Objectives Restricted Residential	Part 375 Soil Cleanup Objectives Commercial	Part 375 Soil Cleanup Objectives Industrial	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
General Chemistry																							
Solids, Total (%)						79.9		83.6		95.8		90.8		85.5		85		76		91.7		92.4	
Cyanide, Total (mg/kg)	27	27	27	27	10000	-	-	1.1	U	-	-	8.4		-	-	0.53	J	-	-	0.68	J	-	-
Polychlorinated Biphenyls by GC (mg/kg)																							
Aroclor 1254	0.1	1	1	1	25	-	-	0.0391	U	-	-	0.0362	U	-	-	0.0384	U	-	-	-	-	-	-
Aroclor 1260	0.1	1	1	1	25	-	-	0.0391	U	-	-	0.00779	J	-	-	0.0384	U	-	-	-	-	-	-
PCBs, Total						-	-	0.0391	U	-	-	0.00779	J	-	-	0.0384	U	-	-	-	-	-	-
Semivolatile Organics by GC/MS (mg/kg)																							
Acenaphthene	20	100	100	500	1000	-	-	0.16	U	-	-	0.14	U	-	-	0.038	J	-	-	0.28		-	-
Fluoranthene	100	100	100	500	1000	-	-	0.035	J	-	-	0.24		-	-	0.96		-	-	4.8		-	-
Naphthalene	12	100	100	500	1000	-	-	0.2	U	-	-	0.18	U	-	-	0.15	J	-	-	0.81		-	-
Benzo(a)anthracene	1	1	1	5.6	11	-	-	0.12	U	-	-	0.12		-	-	0.49		-	-	**2.2**		-	-
Benzo(a)pyrene	1	1	1	1	1.1	-	-	0.16	U	-	-	0.12	J	-	-	0.39		-	-	**2.5**		-	-
Benzo(b)fluoranthene	1	1	1	5.6	11	-	-	0.12	U	-	-	0.18		-	-	0.51		-	-	**3.9**		-	-
Benzo(k)fluoranthene	0.8	1	3.9	56	110	-	-	0.12	U	-	-	0.066	J	-	-	0.18		-	-	**1.4**		-	-
Chrysene	1	1	3.9	56	110	-	-	0.12	U	-	-	0.13		-	-	0.53		-	-	**2.7**		-	-
Acenaphthylene	100	100	100	500	1000	-	-	0.16	U	-	-	0.14	U	-	-	0.05	J	-	-	0.39		-	-
Anthracene	100	100	100	500	1000	-	-	0.12	U	-	-	0.11	U	-	-	0.11		-	-	0.74		-	-
Benzo(ghi)perylene	100	100	100	500	1000	-	-	0.16	U	-	-	0.11	J	-	-	0.29		-	-	1.8		-	-
Fluorene	30	100	100	500	1000	-	-	0.2	U	-	-	0.18	U	-	-	0.054	J	-	-	0.31		-	-
Phenanthrene	100	100	100	500	1000	-	-	0.12	U	-	-	0.12		-	-	0.63		-	-	3.2		-	-
Dibenzo(a,h)anthracene	0.33	0.33	0.33	0.56	1.1	-	-	0.12	U	-	-	0.024	J	-	-	0.079	J	-	-	**0.44**		-	-
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.5	5.6	11	-	-	0.16	U	-	-	0.086	J	-	-	0.27		-	-	**2.1**		-	-
Pyrene	100	100	100	500	1000	-	-	0.037	J	-	-	0.23		-	-	1		-	-	4		-	-
Dibenzofuran	7	14	59	350	1000	-	-	0.2	U	-	-	0.18	U	-	-	0.087	J	-	-	0.42		-	-
3-Methylphenol/4-Methylphenol	0.33	34	100	500	1000	-	-	0.28	U	-	-	0.26	U	-	-	0.27	U	-	-	0.26	U	-	-
Total Metals (mg/kg)																							
Arsenic, Total	13	16	16	16	16	-	-	3.86		-	-	7.15		-	-	5.73		-	-	*14.6*		-	-
Barium, Total	350	350	400	400	10000	-	-	90.5		-	-	192		-	-	44.6		-	-	101		-	-
Beryllium, Total	7.2	14	72	590	2700	-	-	0.548		-	-	0.751		-	-	0.295	J	-	-	0.454		-	-
Cadmium, Total	2.5	2.5	4.3	9.3	60	-	-	1.04		-	-	**4.2**		-	-	0.572	J	-	-	1.94		-	-
Chromium Total (assumed all Trivalent)	(1[a]/30[b])	(22[a]/36[b])	(110[a]/180[b])	(400[a]/1500[b])	(800[a]/6,800[b])	-	-	19.5		-	-	**1510**		-	-	7.78		-	-	20.5		-	-
Copper, Total	50	270	270	270	10000	-	-	24.1		-	-	*200*		-	-	50		-	-	**494**		-	-
Lead, Total	63	400	400	1000	3900	-	-	9.86		-	-	30.3		-	-	47.6		-	-	*210*		-	-
Manganese, Total	1600	2000	2000	10000	10000	-	-	451		-	-	**38600**		-	-	155		-	-	388		-	-
Mercury, Total	0.18	0.81	0.81	2.8	5.7	-	-	0.08	U	-	-	0.07	U	-	-	0.04	J	-	-	*0.55*		-	-
Nickel, Total	30	140	310	310	10000	-	-	25.4		-	-	*72*		-	-	9.83		-	-	*34.7*		-	-
Selenium, Total	3.9	36	180	1500	6800	-	-	1.89	U	-	-	*8.23*		-	-	0.777	J	-	-	0.737	J	-	-
Silver, Total	2	36	180	1500	6800	-	-	0.944	U	-	-	*7.32*		-	-	0.893	U	-	-	0.6	J	-	-
Zinc, Total	109	2200	10000	10000	10000	-	-	65.6		-	-	70.2		-	-	54.2		-	-	*269*		-	-
Volatile Organics by 8260/5035 (mg/kg)																							
1,1-Dichloroethane	0.27	19	26	240	480	0.09	U	-	-	0.086	U	-	-	0.17	U	-	-	0.18	U	-	-	0.2	U
Benzene	0.06	2.9	4.8	44	89	0.06	U	-	-	0.058	U	-	-	*0.11* (Note 10)	U	-	-	*0.12*		-	-	*0.36*	
Toluene	0.7	100	100	500	1000	0.09	U	-	-	0.086	U	-	-	0.1	J	-	-	0.58		-	-	*6.8*	
Ethylbenzene	1	30	41	390	780	0.06	U	-	-	0.058	U	-	-	0.11	U	-	-	0.1	J	-	-	*1.8*	
Chloromethane	NV	NV	NV	NV	NV	0.3	U	-	-	0.29	U	-	-	0.56	U	-	-	0.61	U	-	-	0.073	J
Bromomethane	NV	NV	NV	NV	NV	0.028	J	-	-	0.024	J	-	-	0.075	J	-	-	0.24	U	-	-	0.26	U
trans-1,2-Dichloroethene	0.19	100	100	500	1000	0.09	U	-	-	0.086	U	-	-	0.17	U	-	-	0.18	U	-	-	*0.2* (Note 10)	U
Trichloroethene	0.47	10	21	200	400	0.06	U	-	-	0.058	U	-	-	0.11	U	-	-	0.29		-	-	0.13	U
p/m-Xylene	NV	NV	NV	NV	NV	0.12	U	-	-	0.12	U	-	-	0.2	J	-	-	0.72		-	-	10	
o-Xylene	NV	NV	NV	NV	NV	0.12	U	-	-	0.12	U	-	-	0.11	J	-	-	0.39		-	-	6.3	
cis-1,2-Dichloroethene	0.25	59	100	500	1000	0.06	U	-	-	0.058	U	-	-	0.11	U	-	-	0.12	U	-	-	0.13	U
Acetone	0.05	100	100	500	1000	*0.6* (Note 10)	U	-	-	*0.58* (Note 10)	U	-	-	*1.1* (Note 10)	U	-	-	*1.2* (Note 10)	U	-	-	*1.8*	
Carbon disulfide	NV	100*	NV	NV	NV	0.6	U	-	-	0.58	U	-	-	1.1	U	-	-	1.2	U	-	-	1.3	U
n-Butylbenzene	12	100	100	500	1000	0.06	U	-	-	0.058	U	-	-	0.11	U	-	-	0.12	U	-	-	0.31	
sec-Butylbenzene	11	100	100	500	1000	0.06	U	-	-	0.058	U	-	-	0.11	U	-	-	0.031	J	-	-	0.24	
Isopropylbenzene	NV	100	NV	NV	NV	0.06	U	-	-	0.058	U	-	-	0.11	U	-	-	0.046	J	-	-	0.62	
p-Isopropyltoluene	NV	NV	NV	NV	NV	0.06	U	-	-	0.058	U	-	-	0.11	U	-	-	0.028	J	-	-	0.22	
Naphthalene	12	100	100	500	1000	0.3	U	-	-	0.29	U	-	-	0.064	J	-	-	0.22	J	-	-	5.4	
n-Propylbenzene	3.9	100	100	500	1000	0.06	U	-	-	0.058	U	-	-	0.11	U	-	-	0.053	J	-	-	0.96	
1,3,5-Trimethylbenzene	8.4	47	52	190	380	0.3	U	-	-	0.29	U	-	-	0.045	J	-	-	0.14	J	-	-	0.86	
1,2,4-Trimethylbenzene	3.6	47	52	190	380	0.3	U	-	-	0.29	U	-	-	0.095	J	-	-	0.32	J	-	-	*3.7*	
Methyl Acetate	NV	NV	NV	NV	NV	1.2	U	-	-	1.2	U	-	-	2.2	U	-	-	1.1	J	-	-	2.6	U
Cyclohexane	NV	NV	NV	NV	NV	1.2	U	-	-	1.2	U	-	-	0.29	J	-	-	0.32	J	-	-	7.2	
Methyl cyclohexane	NV	NV	NV	NV	NV	0.24	U	-	-	0.23	U	-	-	0.81		-	-	1.3		-	-	19	

Notes:
1. Compounds detected in one or more samples are presented on this table. Refer to Appendix C for a list of all compounds included in the analysis.
2. Analytical testing completed by Alpha Analytical in Westborough, MA.
3. ug/kg = parts per billion. mg/kg = parts per million. ft. bgs = feet below ground surface.
4. U Qualifier = not detected at a concentration at or above the laboratory's method detection limit. Method detection limit is indicated.
5. Part 375 Soil Cleanup Objectives are from 6 NYCRR Part 375, effective December 14, 2006, values current as of May 2007.
6. NL = Not Listed. NV = No Value.
7. J = Indicates an estimated value.
8. * Supplemental Soil Cleanup Objective for Residential Use, from NYSDEC CP-51 Soil Cleanup Guidance, Table 1, issued October 21, 2010.
9. "-" = Not Tested
10. Method detection limit exceeded Part 375 Unrestricted Criteria
11. [a] = hexavalent chromium
12. [b] = trivalent chromium
13. Results shown for SP-5-1 and SP-5-1-8 are the higher of the initial result or their respective duplicate sample.
14. Results shown for SS-3 are the higher of the initial result or its respective duplicate sample.

Table 2
Soil Analytical Testing Results Summary
Pierce Arrow Apartments
157 Great Arrow Avenue
Buffalo, New York

LOCATION						SP-11-0.5-4.5-071117		SP-12-1.5-071117		SP-12-0-3-071117		SP-13-4.5-071117		SP-13-0-4.5-071117		SS-1-071117		SS-2-071117		SS-3-071117		SS-4-071117	
SAMPLING DATE						7/11/2017		7/11/2017		7/11/2017		7/11/2017		7/11/2017		7/11/2017		7/11/2017		7/11/2017		7/11/2017	
LAB SAMPLE ID						L1723613-19		L1723613-20		L1723613-21		L1723613-22		L1723613-23		L1723613-27		L1723613-28		L1723613-29		L1723613-30	
	Part 375 Soil Cleanup Objectives Unrestricted	Part 375 Soil Cleanup Objectives Residential	Part 375 Soil Cleanup Objectives Restricted Residential	Part 375 Soil Cleanup Objectives Commercial	Part 375 Soil Cleanup Objectives Industrial	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
General Chemistry																							
Solids, Total (%)						85.4		79		77.4		72.8		77.3		83.7		84.3		91.4		97.4	
Cyanide, Total (mg/kg)	*27*	**27**	**27**	**27**	**10000**	2.2	U	-	-	1.6		-	-	1.2	U	0.8	J	0.35	J	0.24	J	0.27	J
Polychlorinated Biphenyls by GC (mg/kg)																							
Aroclor 1254	*0.1*	**1**	**1**	**1**	**25**	0.0383	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1260	*0.1*	**1**	**1**	**1**	**25**	0.0383	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Total						0.0383	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semivolatile Organics by GC/MS (mg/kg)																							
Acenaphthene	*20*	**100**	**100**	**500**	**1000**	0.15	U	-	-	0.047	J	-	-	0.17	U	0.92		0.023	J	0.08	J	0.67	
Fluoranthene	*100*	**100**	**100**	**500**	**1000**	0.28		-	-	0.83		-	-	0.24		7.3		0.36		1.2		5.8	
Naphthalene	*12*	**100**	**100**	**500**	**1000**	0.54		-	-	0.51		-	-	0.11	J	0.32		0.031	J	0.16	J	0.73	
Benzo(a)anthracene	*1*	**1**	**1**	**5.6**	**11**	0.19		-	-	0.39		-	-	0.28		**3.6**		0.18		0.46		**2.4**	
Benzo(a)pyrene	*1*	**1**	**1**	**1**	**1.1**	0.15		-	-	0.35		-	-	0.1	J	**2.7**		0.16		0.34		**1.5**	
Benzo(b)fluoranthene	*1*	**1**	**1**	**5.6**	**11**	0.21		-	-	0.52		-	-	0.12	J	**3.6**		0.23		0.5		**2.4**	
Benzo(k)fluoranthene	*0.8*	**1**	**3.9**	**56**	**110**	0.056	J	-	-	0.16		-	-	0.035	J	**1.2**		0.068	J	0.17		0.67	
Chrysene	*1*	**1**	**3.9**	**56**	**110**	0.27		-	-	0.44		-	-	0.26		**3.1**		0.17		0.46		**2.4**	
Acenaphthylene	*100*	**100**	**100**	**500**	**1000**	0.15	U	-	-	0.17	U	-	-	0.17	U	0.038	J	0.16	U	0.14	U	0.026	J
Anthracene	*100*	**100**	**100**	**500**	**1000**	0.04	J	-	-	0.11	J	-	-	0.14		1.8		0.05	J	0.17	J	1.1	
Benzo(ghi)perylene	*100*	**100**	**100**	**500**	**1000**	0.13	J	-	-	0.19		-	-	0.063	J	1.3		0.11	J	0.28		0.98	
Fluorene	*30*	**100**	**100**	**500**	**1000**	0.033	J	-	-	0.063	J	-	-	0.21	U	0.98		0.022	J	0.067	J	0.57	
Phenanthrene	*100*	**100**	**100**	**500**	**1000**	0.41		-	-	0.82		-	-	0.15		6.4		0.23		0.8		6	
Dibenzo(a,h)anthracene	*0.33*	**0.33**	**0.33**	**0.56**	**1.1**	0.038	J	-	-	0.06	J	-	-	0.13	U	**0.38**		0.032	J	0.073	J	0.26	
Indeno(1,2,3-cd)pyrene	*0.5*	**0.5**	**0.5**	**5.6**	**11**	0.11	J	-	-	0.21		-	-	0.055	J	**1.6**		0.13	J	0.27		**1.1**	
Pyrene	*100*	**100**	**100**	**500**	**1000**	0.29		-	-	0.69		-	-	0.7		5.9		0.29		0.93		4.6	
Dibenzofuran	*7*	**14**	**59**	**350**	**1000**	0.18	J	-	-	0.2	J	-	-	0.21	U	0.58		0.02	J	0.049	J	0.56	
3-Methylphenol/4-Methylphenol	*0.33*	**34**	**100**	**500**	**1000**	0.28	U	-	-	0.31	U	-	-	0.14	J	0.28	U	0.28	U	0.26	U	0.24	U
Total Metals (mg/kg)																							
Arsenic, Total	*13*	**16**	**16**	**16**	**16**	**52.7**		-	-	*14.3*		-	-	11		5.38		5.71		3.61		3.3	
Barium, Total	*350*	**350**	**400**	**400**	**10000**	76.7		-	-	101		-	-	67.3		110		102		69.6		49.4	
Beryllium, Total	*7.2*	**14**	**72**	**590**	**2700**	0.427	J	-	-	0.596		-	-	0.494	J	0.474		0.492		0.563		0.232	J
Cadmium, Total	*2.5*	**2.5**	**4.3**	**9.3**	**60**	1.97		-	-	1.52		-	-	1.03		1.26		1.18		0.811	J	0.625	J
Chromium Total (assumed all Trivalent)	*(1^a/30^b)*	**(22^a/36^b)**	**(110^a/180^b)**	**(400^a/1500^b)**	**(800^a/$6,800^b$)**	17.3		-	-	**45.8**		-	-	**66.6**		26.6		**277**		12.6		11.5	
Copper, Total	*50*	**270**	**270**	**270**	**10000**	49.5		-	-	*268*		-	-	*202*		45		48.6		33.9		18.8	
Lead, Total	*63*	**400**	**400**	**1000**	**3900**	29.8		-	-	*200*		-	-	*69.7*		57		51.1		32.4		12.3	
Manganese, Total	*1600*	**2000**	**2000**	**10000**	**10000**	87.3		-	-	452		-	-	756		677		642		499		305	
Mercury, Total	*0.18*	**0.81**	**0.81**	**2.8**	**5.7**	0.05	J	-	-	0.16		-	-	0.04	J	0.05	J	0.05	J	0.03	J	0.03	J
Nickel, Total	*30*	**140**	**310**	**310**	**10000**	8.96		-	-	21.6		-	-	22.1		23.2		**482**		11.5		13	
Selenium, Total	*3.9*	**36**	**180**	**1500**	**6800**	1.88		-	-	1.05	J	-	-	1.76	J	1.89	U	0.647	J	0.914	J	1.6	U
Silver, Total	*2*	**36**	**180**	**1500**	**6800**	0.267	J	-	-	0.339	J	-	-	0.494	J	0.398	J	0.355	J	0.256	J	0.801	U
Zinc, Total	*109*	**2200**	**10000**	**10000**	**10000**	41.6		-	-	*234*		-	-	85.9		*135*		96.6		95.8		59.8	
Volatile Organics by 8260/5035 (mg/kg)																							
1,1-Dichloroethane	*0.27*	**19**	**26**	**240**	**480**	-	-	0.14	U	-	-	0.15	J	-	-	-	-	-	-	-	-	-	-
Benzene	*0.06*	**2.9**	**4.8**	**44**	**89**	-	-	*0.096* (Note 10)	U	-	-	*0.068*	J	-	-	-	-	-	-	-	-	-	-
Toluene	*0.7*	**100**	**100**	**500**	**1000**	-	-	0.022	J	-	-	0.16	J	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	*1*	**30**	**41**	**390**	**780**	-	-	0.096	U	-	-	0.061	J	-	-	-	-	-	-	-	-	-	-
Chloromethane	*NV*	**NV**	**NV**	**NV**	**NV**	-	-	0.48	U	-	-	0.91	U	-	-	-	-	-	-	-	-	-	-
Bromomethane	*NV*	**NV**	**NV**	**NV**	**NV**	-	-	0.19	U	-	-	0.36	U	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	*0.19*	**100**	**100**	**500**	**1000**	-	-	0.14	U	-	-	0.064	J	-	-	-	-	-	-	-	-	-	-
Trichloroethene	*0.47*	**10**	**21**	**200**	**400**	-	-	0.043	J	-	-	**23**		-	-	-	-	-	-	-	-	-	-
p/m-Xylene	*NV*	**NV**	**NV**	**NV**	**NV**	-	-	0.039	J	-	-	0.37		-	-	-	-	-	-	-	-	-	-
o-Xylene	*NV*	**NV**	**NV**	**NV**	**NV**	-	-	0.04	J	-	-	0.12	J	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	*0.25*	**59**	**100**	**500**	**1000**	-	-	0.096	U	-	-	*0.73*		-	-	-	-	-	-	-	-	-	-
Acetone	*0.05*	**100**	**100**	**500**	**1000**	-	-	*0.32*	J	-	-	*0.64*	J	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	*NV*	**100***	**NV**	**NV**	**NV**	-	-	0.15	J	-	-	0.31	J	-	-	-	-	-	-	-	-	-	-
n-Butylbenzene	*12*	**100**	**100**	**500**	**1000**	-	-	0.096	U	-	-	0.18	U	-	-	-	-	-	-	-	-	-	-
sec-Butylbenzene	*11*	**100**	**100**	**500**	**1000**	-	-	0.096	U	-	-	0.18	U	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	*NV*	**100**	**NV**	**NV**	**NV**	-	-	0.096	U	-	-	0.18	U	-	-	-	-	-	-	-	-	-	-
p-Isopropyltoluene	*NV*	**NV**	**NV**	**NV**	**NV**	-	-	0.096	U	-	-	0.18	U	-	-	-	-	-	-	-	-	-	-
Naphthalene	*12*	**100**	**100**	**500**	**1000**	-	-	0.04	J	-	-	0.91	U	-	-	-	-	-	-	-	-	-	-
n-Propylbenzene	*3.9*	**100**	**100**	**500**	**1000**	-	-	0.096	U	-	-	0.18	U	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	*8.4*	**47**	**52**	**190**	**380**	-	-	0.017	J	-	-	0.077	J	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	*3.6*	**47**	**52**	**190**	**380**	-	-	0.032	J	-	-	0.22	J	-	-	-	-	-	-	-	-	-	-
Methyl Acetate	*NV*	**NV**	**NV**	**NV**	**NV**	-	-	0.42	J	-	-	0.57	J	-	-	-	-	-	-	-	-	-	-
Cyclohexane	*NV*	**NV**	**NV**	**NV**	**NV**	-	-	0.088	J	-	-	3.6	U	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	*NV*	**NV**	**NV**	**NV**	**NV**	-	-	0.34	J	-	-	0.22	J	-	-	-	-	-	-	-	-	-	-

Notes:
1. Compounds detected in one or more samples are presented on this table. Refer to Appendix C for a list of all compounds included in the analysis.
2. Analytical testing completed by Alpha Analytical in Westborough, MA.
3. ug/kg = parts per billion. mg/kg = parts per million. ft. bgs = feet below ground surface.
4. U Qualifier = not detected at a concentration at or above the laboratory's method detection limit. Method detection limit is indicated.
5. Part 375 Soil Cleanup Objectives are from 6 NYCRR Part 375, effective December 14, 2006, values current as of May 2007.
6. NL = Not Listed. NV = No Value.
7. J = Indicates an estimated value.
8. * Supplemental Soil Cleanup Objective for Residential Use, from NYSDEC CP-51 Soil Cleanup Guidance, Table 1, issued October 21, 2010.
9. "-" = Not Tested
10. Method detection limit exceeded Part 375 Unrestricted Criteria
11. [a] = hexavalent chromium
12. [b] = trivalent chromium
13. Results shown for SP-5-1 and SP-5-1-8 are the higher of the initial result or their respective duplicate sample.
14. Results shown for SS-3 are the higher of the initial result or its respective duplicate sample.

Table 3

Groundwater Analytical Testing Results Summary
Pierce Arrow Apartments
157 Great Arrow Avenue
Buffalo, New York

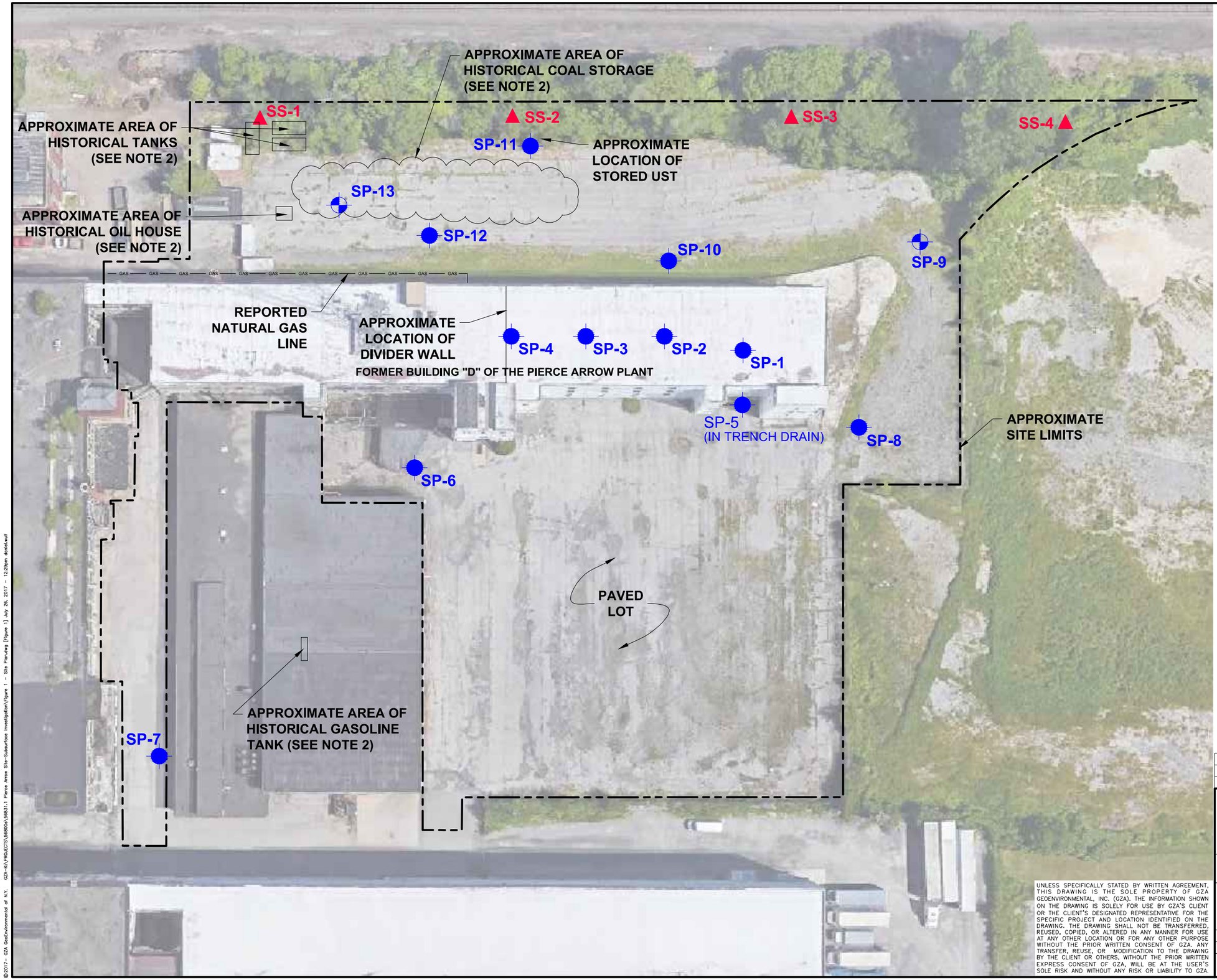
Parameter	Class GA Groundwater Standard or Guidance Value	SP-9-GW 7/11/2017	SP-13-GW 7/11/2017
Volatile Organic Compounds - EPA Method 8260 TCL + CP-51 (ug/L)			
Acetone	50	< 1.5	9.3
1,1-Dichloroethane	5	< 0.7	3.2
cis-1,2-Dichloroethene	5	0.96 J	2.3 J
Methylcyclohexane	NV	< 0.4	0.54 J
Trichloroethene	5	0.29 J	28
Polycyclic Aromatic Hydrocarbons - EPA Method 8270 (ug/L)			
Acenaphthylene	NV	0.07 J	14 J
Anthracene	50	0.1	71
Benzo(a)anthracene	0.002	0.52	120
Benzo(a)pyrene	Non-Detect	0.59	36
Benzo(b)fluoranthene	0.002	0.86	28
Benzo(g,h,i)perylene	NV	0.55	23
Benzo(k)fluoranthene	0.002	0.29	< 8.4*
Chrysene	0.002	0.63	140
Dibenzo(a,h)anthracene	NV	0.11	< 7.8
Fluoranthene	50	0.93	70
Fluorene	50	0.04 J	< 7.4
Indeno(1,2,3-cd)pyrene	0.002	0.53	9.4 J
Phenanthrene	50	0.41	< 3
Pyrene	50	0.9	390

= Analyte detected at a concentration at or above the Class GA Groundwater Standard or Guidance Value.

Notes:

1. Compounds detected in one or more samples are presented on this table. Refer to Appendix C for a list of all compounds included in the analysis.
2. Analytical testing completed by Alpha Analytical in Westborough, MA.
3. ug/L = parts per billion.
4. < = not detected at a concentration at or above the laboratory's method detection limit. Method Standards and Guidance Values and detection limit is indicated.
5. Class GA Groundwater Standards and Guidance Values are from NYSDEC Ambient Water Quality Groundater Effluent Limitations, effective June 2008.
6. NV = No Value.
7. * - Method Detection Limit exceeded criterion.

Figures



N
W E
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LEGEND:

SP-1 — APPROXIMATE LOCATION AND DESIGNATION OF SOIL PROBE COMPLETED ON JULY 11, 2017

SP-9 — APPROXIMATE LOCATION AND DESIGNATION OF SOIL PROBE WITH TEMPORARY 1-INCH MICROWELL INSTALLED ON JULY 11, 2017

SS-1 — APPROXIMATE LOCATION AND DESIGNATION OF SURFACE SOIL SAMPLE COLLECTED ON JULY 11, 2017

NOTES:

1. BASE MAP DEVELOPED FROM A 2016 AERIAL PHOTOGRAPH DOWNLOADED FROM GOOGLE EARTH PRO AND FIELD OBSERVATIONS.

2. HISTORICAL FEATURES DEPICTED ON THIS FIGURE ARE BASED ON A SITE PLAN PROVIDED BY THE SITE CONTACT, ON THE DAY OF INVESTIGATION FOR UTILITY CLEARING PURPOSES.

3. THE SIZE AND LOCATION OF EXISTING AND FORMER SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

0 30 60 120
APPROXIMATE SCALE IN FEET

NO.	ISSUE/DESCRIPTION	BY	DATE

PIERCE ARROW APARTMENTS SITE
GREAT ARROW AVENUE
BUFFALO, NEW YORK

SUBSURFACE INVESTIGATION

SITE INVESTIGATION PLAN

PREPARED BY:
GZA GeoEnvironmental of N.Y.
Engineers and Scientists
535 WASHINGTON STREET 11th FLOOR
BUFFALO, NEW YORK 14203
(716) 685-2300

PREPARED FOR:
GREAT ARROW ESTATES, LLC.

PROJ MGR: JJR	REVIEWED BY: JJR	CHECKED BY: BAK	FIGURE 1
DESIGNED BY: TB	DRAWN BY: DEW	SCALE: AS SHOWN	
DATE JULY 2017	PROJECT NO. 21.0056831.10	REVISION NO.	

Appendix A – Limitations

USE OF REPORT

1. GZA GeoEnvironmental, Inc. (GZA) prepared this report on behalf of, and for the exclusive use of our Client for the stated purpose(s) and location(s) identified in the Proposal for Services and/or Report. Use of this report, in whole or in part, at other locations, or for other purposes, may lead to inappropriate conclusions; and we do not accept any responsibility for the consequences of such use(s). Further, reliance by any party not expressly identified in the agreement, for any use, without our prior written permission, shall be at that party's sole risk, and without any liability to GZA.

STANDARD OF CARE

2. GZA's findings and conclusions are based on the work conducted as part of the Scope of Services set forth in the Proposal for Services and/or Report and reflect our professional judgment. These findings and conclusions must be considered not as scientific or engineering certainties, but rather as our professional opinions concerning the limited data gathered during the course of our work. Conditions other than described in this report may be found at the subject location(s).

3. GZA's services were performed using the degree of skill and care ordinarily exercised by qualified professionals performing the same type of services, at the same time, under similar conditions, at the same or a similar property. No warranty, expressed or implied, is made. Specifically, GZA does not and cannot represent that the Site contains no hazardous material, oil, or other latent condition beyond that observed by GZA during its study. Additionally, GZA makes no warranty that any response action or recommended action will achieve all of its objectives or that the findings of this study will be upheld by a local, state or federal agency.

4. In conducting our work, GZA relied upon certain information made available by public agencies, Client and/or others. GZA did not attempt to independently verify the accuracy or completeness of that information. Inconsistencies in this information which we have noted, if any, are discussed in the Report.

SUBSURFACE CONDITIONS

5. The generalized soil profile(s) provided in our Report are based on widely-spaced subsurface explorations and are intended only to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and were based on our assessment of subsurface conditions. The composition of strata, and the transitions between strata, may be more variable and more complex than indicated. For more specific information on soil conditions at a specific location refer to the exploration logs. The nature and extent of variations between these explorations may not become evident until further exploration or construction. If variations or other latent conditions then become evident, it will be necessary to reevaluate the conclusions and recommendations of this report.

6. Water level readings have been made, as described in this Report, in and monitoring wells at the specified times and under the stated conditions. These data have been reviewed and interpretations have been made in this report. Fluctuations in the level of the groundwater however occur due to temporal or spatial variations in areal recharge rates, soil heterogeneities, the presence of subsurface utilities, and/or natural or artificially induced perturbations. The observed water table may be other than indicated in the Report.

COMPLIANCE WITH CODES AND REGULATIONS

7. We used reasonable care in identifying and interpreting applicable codes and regulations necessary to execute our scope of work. These codes and regulations are subject to various, and possibly contradictory, interpretations. Interpretations and compliance with codes and regulations by other parties is beyond our control.

SCREENING AND ANALYTICAL TESTING

8. GZA collected environmental samples at the locations identified in the Report. These samples were analyzed for the specific parameters identified in the report. Additional constituents, for which analyses were not conducted, may be present in soil, groundwater, surface water, sediment and/or air. Future Site activities and uses may result in a requirement for additional testing.

9. Our interpretation of field screening and laboratory data is presented in the Report. Unless otherwise noted, we relied upon the laboratory's QA/QC program to validate these data.

10. Variations in the types and concentrations of contaminants observed at a given location or time may occur due to release mechanisms, disposal practices, changes in flow paths, and/or the influence of various physical, chemical, biological or radiological processes. Subsequently observed concentrations may be other than indicated in the Report.

INTERPRETATION OF DATA

11. Our opinions are based on available information as described in the Report, and on our professional judgment. Additional observations made over time, and/or space, may not support the opinions provided in the Report.

ADDITIONAL INFORMATION

12. In the event that the Client or others authorized to use this report obtain additional information on environmental or hazardous waste issues at the Site not contained in this report, such information shall be brought to GZA's attention forthwith. GZA will evaluate such information and, on the basis of this evaluation, may modify the conclusions stated in this report.

ADDITIONAL SERVICES

13. GZA recommends that we be retained to provide services during any future investigations, design, implementation activities, construction, and/or property development/ redevelopment at the Site. This will allow us the opportunity to: i) observe conditions and compliance with our design concepts and opinions; ii) allow for changes in the event that conditions are other than anticipated; iii) provide modifications to our design; and iv) assess the consequences of changes in technologies and/or regulations.

Appendix B – Soil Probe Logs and Provided Historical Plans

157 Great Arrow Avenue
Buffalo, New York
Subsurface Investigation

CONTRACTOR	TREC Environmental, Inc.	BORING LOCATION	See Site Plan
DRILLER	James Agar	GROUND SURFACE ELEVATION	NM DATUM NA
START DATE	7/11/2017 END DATE: 7/11/2017	GZA GEOENVIRONMENTAL REPRESENTATIVE	Thomas Bohlen

WATER LEVEL DATA

DATE	TIME	WATER	CASING

TYPE OF DRILL RIG	Track Mounted Geoprobe 6620 UT
CASING SIZE AND DIAMETER	2" diameter by 48" long
OVERBURDEN SAMPLING METHOD	Direct Push
ROCK DRILLING METHOD	NA

DEPTH	Sample Number	DEPTH (FT BGS)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
0	1	0-2	70	Wood block pavers (4-inches), Concrete (4-inches).	Soil probe installed in area of exposed wooden pavers.	0.0
2	2	2-4	70	NATIVE: Brown Silty CLAY, trace Gravel, trace Sand, moist.		0.0
4	3	4-6	100			0.0
6	4	6-8	100			0.0
8				End of soil probe at 8 ft. bgs.		

S - Split Spoon Sample
C - Rock Core Sample

NOTES: MiniRAE 3000 was used to field screen and headspace soil samples.
FT BGS = feet below ground surface. ppm = parts per million.

General Notes:
1) Stratification lines represent approximate boundry between soil types, transitions may be gradual.
2) Water level readings have been made at times and under conditions stated, fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

CONTRACTOR	TREC Environmental, Inc.	BORING LOCATION	See Site Plan
DRILLER	James Agar	GROUND SURFACE ELEVATION	NM DATUM NA
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DATE	TIME	WATER	CASING

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CASING SIZE AND DIAMETER	2" diameter by 48" long
OVERBURDEN SAMPLING METHOD	Direct Push
ROCK DRILLING METHOD	NA

DEPTH	Sample Number	DEPTH (FT BGS)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	1	0-2	80	Concrete (10-inches).		0.0
1						
				NATIVE: Brown Silty CLAY, trace Gravel, trace Sand, moist.		
2						
	2	2-4	80			0.0
3						
4				Grades to: Gray.		
	3	4-6	100	Grades to: Brown.		0.0
5						
6						
	4	6-8	100			0.0
7						
8						
				End of soil probe at 8 ft. bgs.		
9						
10						
11						
12						
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14						
15						
16						
17						
18						
19						
20						

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ROCK DRILLING METHOD	NA

DEPTH	Sample Number	DEPTH (FT BGS)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	1	0-2	80	Concrete (10-inches).		0.0
1						
				NATIVE: Brown Silty CLAY, trace Gravel, trace Sand, moist.		
2						
	2	2-4	80			0.0
3						
4						
	3	4-6	100			0.0
5						
6						
	4	6-8	100			0.0
7						
8						
				End of soil probe at 8 ft. bgs.		
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ROCK DRILLING METHOD	NA

DEPTH	Sample Number	DEPTH (FT BGS)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	1	0-2	70	Concrete (10-inches).		0.0
1						
				NATIVE: Brown Silty CLAY, trace Gravel, trace Sand, moist.		
2						
	2	2-4	70			0.0
3						
4						
	3	4-6	100			0.0
5						
6						
	4	6-8	100			0.0
7						
8						
				End of soil probe at 8 ft. bgs.		
9						
10						
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17						
18						
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20						

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WATER LEVEL DATA

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CASING SIZE AND DIAMETER	2" diameter by 48" long
OVERBURDEN SAMPLING METHOD	Direct Push
ROCK DRILLING METHOD	NA

DEPTH	SAMPLE INFORMATION Sample Number	DEPTH (FT BGS)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	1	0-2	50	Trench drain (10-inches deep).	Soil probe conducted	0.0
1				Concrete (3-inches).	in trench drain outside	
				NATIVE: Brown Silty CLAY, trace Gravel, trace Sand, moist.	of southeastern	
2					overhead door.	
	2	2-4	50			0.0
3						
4						
	3	4-6	100			0.0
5						
6						
	4	6-8	100			0.0
7						
8						
				End of soil probe at 8 ft. bgs.		
9						
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20						

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ROCK DRILLING METHOD	NA

DEPTH	Sample Number	DEPTH (FT BGS)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	1	0-2	90	FILL: Brown/Black/Gray SAND and GRAVEL, little Silt, moist.		0.0
1						
				NATIVE: Brown Silty CLAY, trace Gravel, trace Sand, moist.		
2						
	2	2-4	90			0.0
3						
4						
	3	4-6	100			0.0
5						
6						
	4	6-8	100			0.0
7						
8						
				End of soil probe at 8 ft. bgs.		
9						
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11						
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14						
15						
16						
17						
18						
19						
20						

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OVERBURDEN SAMPLING METHOD	Direct Push
ROCK DRILLING METHOD	NA

DEPTH	Sample Number	DEPTH (FT BGS)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	1	0-2	40	Asphalt (2-inches) and Concrete (4-inches).		0.0
1				NATIVE: Brown Silty CLAY, trace Gravel, trace Silt, moist.		
2						
	2	2-4	40			0.0
3						
4						
	3	4-6	100			0.0
5						
6						
	4	6-8	100			0.0
7						
8						
				End of soil probe at 8 ft. bgs.		
9						
10						
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12						
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14						
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16						
17						
18						
19						
20						

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ROCK DRILLING METHOD	NA

DEPTH	Sample Number	DEPTH (FT BGS)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	1	0-2	90	FILL: Brown/Gray/Black SAND and GRAVEL, trace Silt, moist.		0.0
1						
				NATIVE: Brown Silty CLAY, trace Gravel, trace Sand, moist.		
2						
	2	2-4	90			0.0
3						
4						
	3	4-6	100			0.0
5						
6						
	4	6-8	100			0.0
7						
8						
				End of soil probe at 8 ft. bgs.		
9						
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16						
17						
18						
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DEPTH	Sample Number	DEPTH (FT BGS)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	1	0-2	60	FILL: Brown/Black/Gray SAND, some Gravel, trace Silt, trace	Temporary 1-inch	0.0
1				Brick, trace Glass, moist.	microwell installed.	
2					- Bottom of Well at	
	2	2-4	60		16 ft. bgs.	0.0
3						
					- Screened from 6 to	
4					16 ft. bgs.	
	3	4-6	40	Grades to: Black.		0.0
5						
6						
	4	6-8	40			0.0
7						
8						
	5	8-10	50			0.0
9						
10						
	6	10-12	50			0.0
11						
				Grades to: wet.		
12						
	7	12-14	100			0.0
13						
				NATIVE: Brown Silty CLAY, trace Gravel, trace Sand, moist.		
14						
	8	14-16	100			0.0
15						
16						
				End of soil probe at 16 ft. bgs.		
17						
18						
19						
20						

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DEPTH	Sample Number	DEPTH (FT BGS)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	1	0-2	80	FILL: Black SAND, little Gravel, trace Brick, moist.		0.0
1						
2						
	2	2-4	80			0.0
3						
4						
	3	4-6	100			0.0
5				NATIVE: Brown Silty CLAY, trace Gravel, trace Sand, moist.		
6						
	4	6-8	100			0.0
7						
8						
				End of soil probe at 8 ft. bgs.		
9						
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ROCK DRILLING METHOD	NA

DEPTH	Sample Number	DEPTH (FT BGS)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	1	0-2	90	Asphalt (2-inches). FILL: Brown/Gray/Black SAND, little Gravel, trace Silt, moist.	Soil probe conducted near present AST on northern portion of Site.	0.0
1						
2						
	2	2-4	90			0.0
3						
4						
	3	4-6	100			0.0
5				NATIVE: Brown Silty CLAY, trace Gravel, trace Sand, moist.		
6						
	4	6-8	100			0.0
7						
8						
				End of soil probe at 8 ft. bgs.		
9						
10						
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ROCK DRILLING METHOD	NA

DEPTH	Sample Number	DEPTH (FT BGS)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	1	0-2	60	FILL: Black SAND, little Gravel, trace Silt, moist.	Soil probe moved approximately 30 ft. north of Site building due to presence of natural gas line.	0.0
1						
2						
	2	2-4	60			0.0
3						
				NATIVE: Brown Silty CLAY, trace Gravel, trace Sand, moist.		
4						
	3	4-6	100			0.0
5						
6						
	4	6-8	100			0.0
7						
8						
				End of soil probe at 8 ft. bgs.		
9						
10						
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14						
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DEPTH	Sample Number	DEPTH (FT BGS)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	1	0-2	60	Asphalt (2-inches). FILL: Brown/Black/Orange SAND, little Gravel, moist.	Temporary 1-inch microwell installed.	0.0
1						
					- Bottom of Well at 8 ft. bgs.	
2						
	2	2-4	60			0.0
3					- Screened from 0 to 8 ft. bgs.	
4				Grades to: wet. Black staining, weathered silver sheen, and petroleum odor observed.		
	3	4-6	70			42.3
5				NATIVE: Brown Silty CLAY, trace Gravel, trace Sand, moist.		
6						
	4	6-8	70			0.0
7						
8						
				End of soil probe at 8 ft. bgs.		
9						
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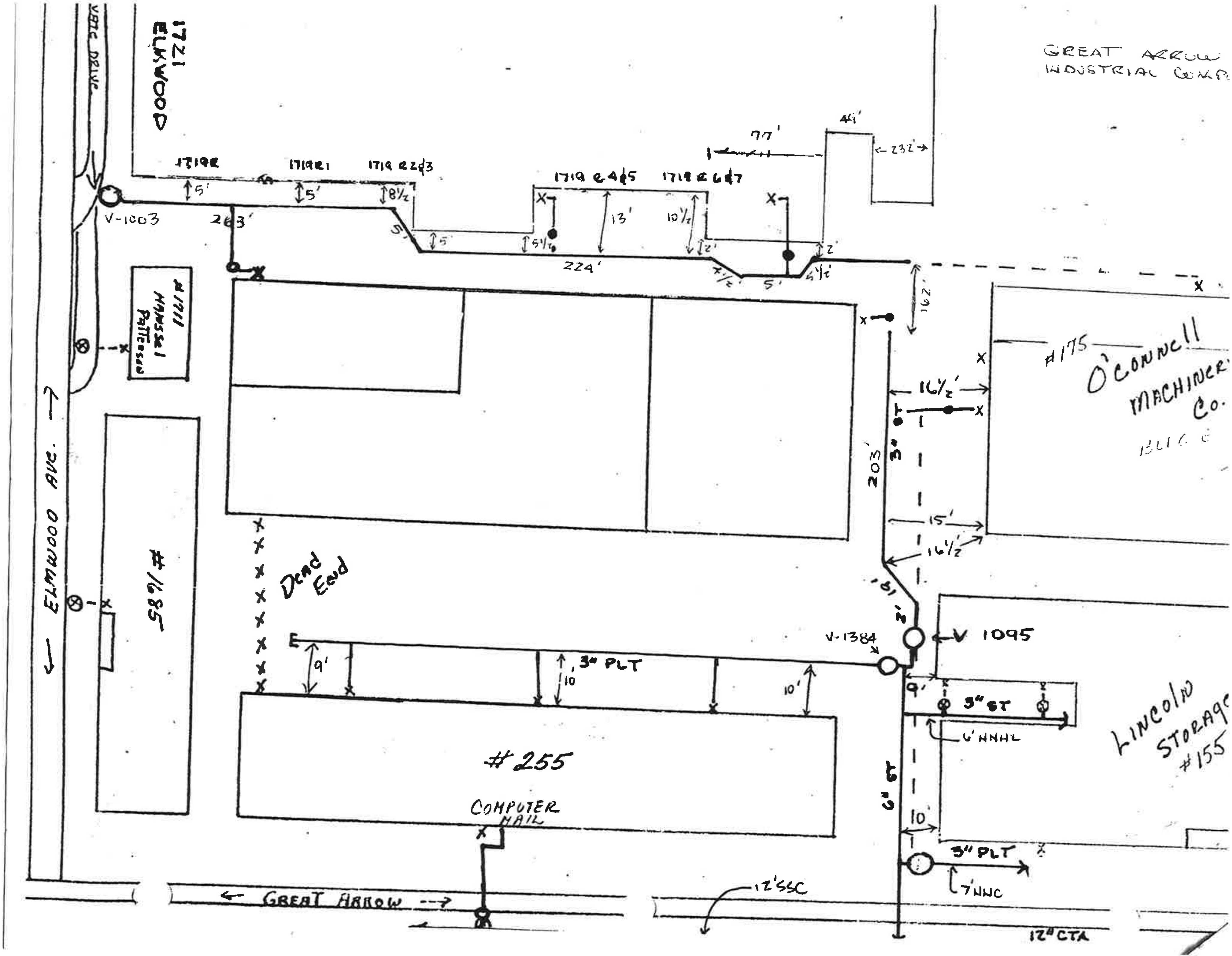
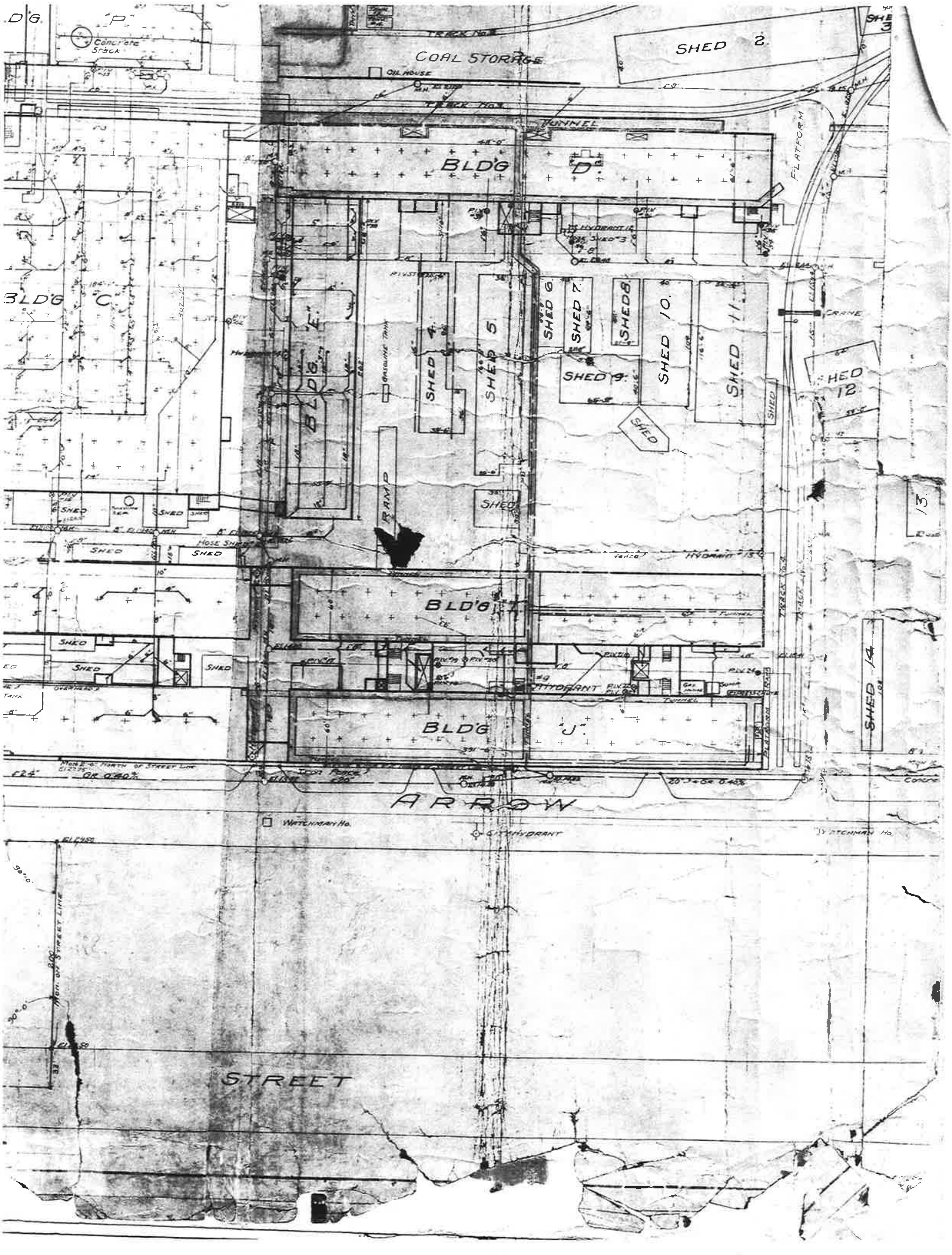
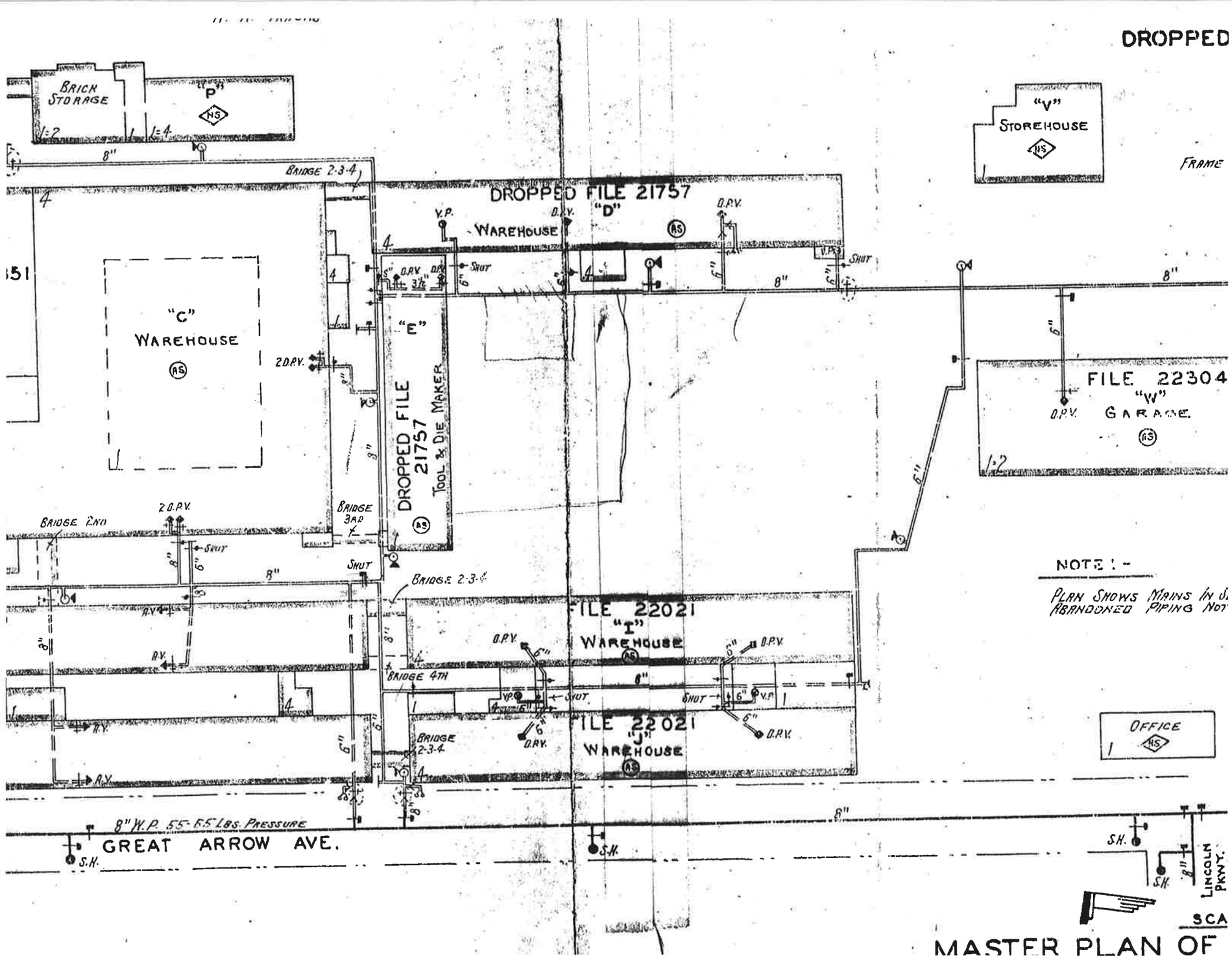

GREAT ARROW INDUSTRIAL COMP.
1721 ELMWOOD
1719R
1719R1
1719 R2&3
1719 R4&5
1719 R6&7
77'
44'
232'
V-1003
263'
13'
10½'
224'
162'
#175
O'Connell MACHINERY Co.
16½'
203'
15'
16½'
Dead End
ELMWOOD AVE.
#1685
V-1384
1095
3" PLT
9'
10'
3" ST
Lincoln STORAGE #155
#255
COMPUTER MAIL
6" ST
3" PLT
12' SSC
GREAT ARROW
12" CTA



BLD'G "P"
Concrete Stack
COAL STORAGE
OIL HOUSE
TRACK No. 3
TUNNEL
SHED 2.
PLATFORM
BLD'G "D"
BLD'G "C"
BLD'G "E"
HYDRANT 12
SHED 3
SHED 4
SHED 5
SHED 6.
SHED 7.
SHED 8
SHED 9.
SHED 10.
SHED 11
SHED 12
SHED 13
SHED 14
SHED
RAMP
CRANE
HOSE SHED
HYDRANT 13
BLD'G "I"
TUNNEL
HYDRANT
BLD'G "J"
PLATFORM
Iron Fence
ARROW
WATCHMAN Ho.
CITY HYDRANT
WATCHMAN Ho.
MON. OF STREET LINE
STREET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FILE 22304
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Appendix C – Laboratory Report

JOB: L1723613 REPORT STYLE: Data Usability Report
0010: Alpha Analytical Report Cover Page - OK
0015: Sample Cross Reference Summary - OK
0060: Case Narrative - OK
0100: Volatiles Cover Page - OK
0110: Volatiles Sample Results - OK
0120: Volatiles Method Blank Report - OK
0130: Volatiles LCS Report - OK
0150: Volatiles Matrix SpikeReport - OK
0180: Semivolatiles Cover Page - OK
0190: Semivolatiles Sample Results - OK
0200: Semivolatiles Method Blank Report - OK
0210: Semivolatiles LCS Report - OK
0230: Semivolatiles Matrix Spike Report - OK
0700: PCBs Cover Page - OK
0710: PCBs Sample Results - OK
0720: PCBs Method Blank Report - OK
0730: PCBs LCS Report - OK
1005: Metals Sample Results - OK
1010: Metals Method Blank Report - OK
1020: Metals LCS Report - OK
1040: Metals Matrix Spike Report - OK
1180: Inorganics Cover Page - OK
1200: Wet Chemistry Sample Results - OK
1210: Wet Chemistry Method Blank Report - OK
1220: Wet Chemistry LCS Report - OK
1240: Wet Chemistry Matrix Spike Report - OK
1250: Wet Chemistry Duplicate Report - OK
5100: Sample Receipt & Container Information Report - OK
5200: Glossary - OK
5400: References - OK

ANALYTICAL REPORT

Lab Number:	L1723613
Client:	GZA GeoEnvironmental 535 Washington St. Buffalo, NY 14203
ATTN:	James Richert
Phone:	(716) 685-2300
Project Name:	PIERCE ARROW APARTMENTS
Project Number:	56831.10
Report Date:	07/19/17

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10

Lab Number: L1723613
Report Date: 07/19/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1723613-01	SP-1-8"-071117	SOIL	BUFFALO, NY	07/11/17 09:40	07/11/17
L1723613-02	SP-1-0.5-8-071117	SOIL	BUFFALO, NY	07/11/17 09:40	07/11/17
L1723613-03	SP-2-3.5-071117	SOIL	BUFFALO, NY	07/11/17 10:10	07/11/17
L1723613-04	SP-3-2-071117	SOIL	BUFFALO, NY	07/11/17 10:30	07/11/17
L1723613-05	SP-3-1-8-071117	SOIL	BUFFALO, NY	07/11/17 10:30	07/11/17
L1723613-06	SP-5-1-071117	SOIL	BUFFALO, NY	07/11/17 11:15	07/11/17
L1723613-07	SP-5-1-8-071117	SOIL	BUFFALO, NY	07/11/17 11:15	07/11/17
L1723613-08	SP-6-0.5-071117	SOIL	BUFFALO, NY	07/11/17 11:40	07/11/17
L1723613-09	SP-6-0-1-071117	SOIL	BUFFALO, NY	07/11/17 11:40	07/11/17
L1723613-10	SP-7-4-071117	SOIL	BUFFALO, NY	07/11/17 12:30	07/11/17
L1723613-11	SP-7-4-8-071117	SOIL	BUFFALO, NY	07/11/17 12:30	07/11/17
L1723613-12	SP-8-0.5-071117	SOIL	BUFFALO, NY	07/11/17 13:00	07/11/17
L1723613-13	SP-8-0-1-071117	SOIL	BUFFALO, NY	07/11/17 13:00	07/11/17
L1723613-14	SP-9-2-071117	SOIL	BUFFALO, NY	07/11/17 13:20	07/11/17
L1723613-15	SP-9-0-13-071117	SOIL	BUFFALO, NY	07/11/17 13:20	07/11/17
L1723613-16	SP-10-4-071117	SOIL	BUFFALO, NY	07/11/17 13:50	07/11/17
L1723613-17	SP-10-0-4.5-071117	SOIL	BUFFALO, NY	07/11/17 13:50	07/11/17
L1723613-18	SP-11-3-071117	SOIL	BUFFALO, NY	07/11/17 14:20	07/11/17
L1723613-19	SP-11-0.5-4.5-071117	SOIL	BUFFALO, NY	07/11/17 14:20	07/11/17
L1723613-20	SP-12-1.5-071117	SOIL	BUFFALO, NY	07/11/17 14:45	07/11/17
L1723613-21	SP-12-0-3-071117	SOIL	BUFFALO, NY	07/11/17 14:45	07/11/17
L1723613-22	SP-13-4.5-071117	SOIL	BUFFALO, NY	07/11/17 15:15	07/11/17
L1723613-23	SP-13-0-4.5-071117	SOIL	BUFFALO, NY	07/11/17 15:15	07/11/17
L1723613-24	SUBSURFACE DUPLICATE -	SOIL	BUFFALO, NY	07/11/17 00:00	07/11/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
	071117				
L1723613-25	SP-9-GW-071117	WATER	BUFFALO, NY	07/11/17 15:30	07/11/17
L1723613-26	SP-13-GW-071117	WATER	BUFFALO, NY	07/11/17 15:45	07/11/17
L1723613-27	SS-1-071117	SOIL	BUFFALO, NY	07/11/17 15:50	07/11/17
L1723613-28	SS-2-071117	SOIL	BUFFALO, NY	07/11/17 15:55	07/11/17
L1723613-29	SS-3-071117	SOIL	BUFFALO, NY	07/11/17 16:00	07/11/17
L1723613-30	SS-4-071117	SOIL	BUFFALO, NY	07/11/17 16:10	07/11/17
L1723613-31	SURFACE SOIL DUPLICATE	SOIL	BUFFALO, NY	07/11/17 00:00	07/11/17

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613
Project Number: 56831.10 **Report Date:** 07/19/17

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. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated 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.

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 table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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 Client Service Representative 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 Client Services at 800-624-9220 with any questions.

Project Name:	PIERCE ARROW APARTMENTS	**Lab Number:**	L1723613
Project Number:	56831.10	**Report Date:**	07/19/17

Case Narrative (continued)

Report Submission

This is a partial report. A final report will be issued as soon as the results of all requested analyses become available.

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

Volatile Organics

L1723613-01, -03, -04, -06, -10, -12, -20, and -24: The analysis of Volatile Organics by EPA Method 5035/8260 Low Level could not be performed due to excessive sample weight. A High Level analysis was performed and is reported.

Semivolatile Organics

L1723613-26: The sample has elevated detection limits due to limited sample volume available for analysis and the analytical dilution required by the sample matrix.

The WG1022578-4/-5 MS/MSD recoveries, performed on L1723613-27, are outside the acceptance criteria for fluoranthene (0%/0%), benzo(a)anthracene (MSD at 0%), benzo(a)pyrene (MSD at 0%), benzo(b)fluoranthene (MSD at 0%), phenanthrene (0%/0%) and pyrene (0%/0%). The unacceptable percent recoveries are attributed to the elevated concentrations of target compounds present in the native sample.

Semivolatile Organics by SIM

L1723613-26: The sample has elevated detection limits due to limited sample volume available for analysis and the analytical dilution required by the sample matrix.

L1723613-26: The surrogate recoveries are below the acceptance criteria for 2-fluorophenol (0%), phenol-d6 (0%), nitrobenzene-d5 (0%), 2-fluorobiphenyl (0%), 2,4,6-tribromophenol (0%) and 4-terphenyl-d14 (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613
Project Number: 56831.10 **Report Date:** 07/19/17

Case Narrative (continued)

Total Metals

L1723613-03, -05, -07, -09, -11, -13, -15, -17, -19, -21, -23, -24, -27 through -31: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

The WG1021962-4 MSD recovery for manganese (0%), performed on L1723613-05, does not apply because the sample concentration is greater than four times the spike amount added.

The WG1021962-3/-4 MS/MSD RPD, performed on L1723613-05, is above the acceptance criteria for manganese (28%).

The WG1021962-7/-8 MS/MSD recoveries, performed on L1723613-27, are outside the acceptance criteria for cadmium (MSD at 73%), chromium (MS at 356%), lead (MSD at 60%), nickel (71%/73%) and zinc (148%/53%). A post digestion spike was performed and yielded unacceptable recoveries for cadmium (73%), chromium (66%), lead (68%), nickel (69%) and zinc (59%). This has been attributed to sample matrix.

The WG1021962-7 MS recovery for manganese (2170%), performed on L1723613-27, does not apply because the sample concentration is greater than four times the spike amount added.

The WG1021962-7/-8 MS/MSD RPDs for chromium (78%), manganese (79%) and zinc (24%), performed on L1723613-27, are above the acceptance criteria.

The WG1022069-3/-4 MS/MSD recoveries, performed on L1723613-05, are outside the acceptance criteria for mercury (123%/128%). A post digestion spike was performed and was within acceptance criteria.

The WG1022069-5/-6 MS/MSD recoveries, performed on L1723613-27, are outside the acceptance criteria for mercury (127%/126%). A post digestion spike was performed and was within acceptance criteria.

Cyanide, Total

L1723613-07, -15, -17 and -19: The sample has an elevated detection limit due to the dilution required by the sample matrix.

The WG1022226-2 LCS recovery (136%), associated with L1723613-02 and -03, is above our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG1022230-2 LCS recovery (136%), associated with L1723613-05, -07, -09, -11, -13, -15, -17 and -

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613
Project Number: 56831.10 **Report Date:** 07/19/17

Case Narrative (continued)

19, is above our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG1022567-3 LCSD recovery (124%), associated with L1723613-21, -23, -24 and -27 through -31, is above our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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: Michelle M. Morris

Title: Technical Director/Representative Date: 07/19/17

ORGANICS

VOLATILES

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-01
Client ID: SP-1-8"-071117
Sample Location: BUFFALO, NY

Date Collected: 07/11/17 09:40
Date Received: 07/11/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/16/17 11:55
Analyst: MV
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	690	110	1
1,1-Dichloroethane	ND		ug/kg	100	19.	1
Chloroform	ND		ug/kg	100	26.	1
Carbon tetrachloride	ND		ug/kg	69	24.	1
1,2-Dichloropropane	ND		ug/kg	240	16.	1
Dibromochloromethane	ND		ug/kg	69	12.	1
1,1,2-Trichloroethane	ND		ug/kg	100	22.	1
Tetrachloroethene	ND		ug/kg	69	21.	1
Chlorobenzene	ND		ug/kg	69	24.	1
Trichlorofluoromethane	ND		ug/kg	350	29.	1
1,2-Dichloroethane	ND		ug/kg	69	17.	1
1,1,1-Trichloroethane	ND		ug/kg	69	24.	1
Bromodichloromethane	ND		ug/kg	69	21.	1
trans-1,3-Dichloropropene	ND		ug/kg	69	14.	1
cis-1,3-Dichloropropene	ND		ug/kg	69	16.	1
Bromoform	ND		ug/kg	280	16.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	69	21.	1
Benzene	ND		ug/kg	69	13.	1
Toluene	ND		ug/kg	100	14.	1
Ethylbenzene	ND		ug/kg	69	12.	1
Chloromethane	ND		ug/kg	350	30.	1
Bromomethane	68	J	ug/kg	140	23.	1
Vinyl chloride	ND		ug/kg	140	22.	1
Chloroethane	ND		ug/kg	140	22.	1
1,1-Dichloroethene	ND		ug/kg	69	26.	1
trans-1,2-Dichloroethene	ND		ug/kg	100	17.	1
Trichloroethene	ND		ug/kg	69	21.	1
1,2-Dichlorobenzene	ND		ug/kg	350	13.	1
1,3-Dichlorobenzene	ND		ug/kg	350	15.	1
1,4-Dichlorobenzene	ND		ug/kg	350	13.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-01 Date Collected: 07/11/17 09:40

Client ID: SP-1-8"-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	140	11.	1
p/m-Xylene	ND		ug/kg	140	24.	1
o-Xylene	ND		ug/kg	140	23.	1
cis-1,2-Dichloroethene	ND		ug/kg	69	24.	1
Styrene	ND		ug/kg	140	28.	1
Dichlorodifluoromethane	ND		ug/kg	690	35.	1
Acetone	ND		ug/kg	690	160	1
Carbon disulfide	ND		ug/kg	690	76.	1
2-Butanone	ND		ug/kg	690	48.	1
4-Methyl-2-pentanone	ND		ug/kg	690	17.	1
2-Hexanone	ND		ug/kg	690	46.	1
Bromochloromethane	ND		ug/kg	350	25.	1
1,2-Dibromoethane	ND		ug/kg	280	14.	1
n-Butylbenzene	ND		ug/kg	69	16.	1
sec-Butylbenzene	ND		ug/kg	69	15.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	350	27.	1
Isopropylbenzene	ND		ug/kg	69	13.	1
p-Isopropyltoluene	ND		ug/kg	69	14.	1
Naphthalene	ND		ug/kg	350	9.6	1
n-Propylbenzene	ND		ug/kg	69	15.	1
1,2,3-Trichlorobenzene	ND		ug/kg	350	17.	1
1,2,4-Trichlorobenzene	ND		ug/kg	350	15.	1
1,3,5-Trimethylbenzene	ND		ug/kg	350	11.	1
1,2,4-Trimethylbenzene	ND		ug/kg	350	13.	1
Methyl Acetate	ND		ug/kg	1400	32.	1
Cyclohexane	ND		ug/kg	1400	30.	1
1,4-Dioxane	ND		ug/kg	2800	1000	1
Freon-113	ND		ug/kg	1400	36.	1
Methyl cyclohexane	ND		ug/kg	280	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	97		70-130

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-03
Client ID: SP-2-3.5-071117
Sample Location: BUFFALO, NY

Date Collected: 07/11/17 10:10
Date Received: 07/11/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/16/17 12:21
Analyst: MV
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	700	120	1
1,1-Dichloroethane	ND		ug/kg	100	19.	1
Chloroform	ND		ug/kg	100	26.	1
Carbon tetrachloride	ND		ug/kg	70	24.	1
1,2-Dichloropropane	ND		ug/kg	240	16.	1
Dibromochloromethane	ND		ug/kg	70	12.	1
1,1,2-Trichloroethane	ND		ug/kg	100	22.	1
Tetrachloroethene	ND		ug/kg	70	21.	1
Chlorobenzene	ND		ug/kg	70	24.	1
Trichlorofluoromethane	ND		ug/kg	350	29.	1
1,2-Dichloroethane	ND		ug/kg	70	17.	1
1,1,1-Trichloroethane	ND		ug/kg	70	24.	1
Bromodichloromethane	ND		ug/kg	70	22.	1
trans-1,3-Dichloropropene	ND		ug/kg	70	14.	1
cis-1,3-Dichloropropene	ND		ug/kg	70	16.	1
Bromoform	ND		ug/kg	280	16.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	70	21.	1
Benzene	ND		ug/kg	70	14.	1
Toluene	ND		ug/kg	100	14.	1
Ethylbenzene	ND		ug/kg	70	12.	1
Chloromethane	ND		ug/kg	350	30.	1
Bromomethane	ND		ug/kg	140	24.	1
Vinyl chloride	ND		ug/kg	140	22.	1
Chloroethane	ND		ug/kg	140	22.	1
1,1-Dichloroethene	ND		ug/kg	70	26.	1
trans-1,2-Dichloroethene	ND		ug/kg	100	17.	1
Trichloroethene	ND		ug/kg	70	21.	1
1,2-Dichlorobenzene	ND		ug/kg	350	13.	1
1,3-Dichlorobenzene	ND		ug/kg	350	15.	1
1,4-Dichlorobenzene	ND		ug/kg	350	13.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-03 Date Collected: 07/11/17 10:10

Client ID: SP-2-3.5-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	140	11.	1
p/m-Xylene	ND		ug/kg	140	24.	1
o-Xylene	ND		ug/kg	140	24.	1
cis-1,2-Dichloroethene	ND		ug/kg	70	24.	1
Styrene	ND		ug/kg	140	28.	1
Dichlorodifluoromethane	ND		ug/kg	700	35.	1
Acetone	ND		ug/kg	700	160	1
Carbon disulfide	ND		ug/kg	700	77.	1
2-Butanone	ND		ug/kg	700	48.	1
4-Methyl-2-pentanone	ND		ug/kg	700	17.	1
2-Hexanone	ND		ug/kg	700	47.	1
Bromochloromethane	ND		ug/kg	350	25.	1
1,2-Dibromoethane	ND		ug/kg	280	14.	1
n-Butylbenzene	ND		ug/kg	70	16.	1
sec-Butylbenzene	ND		ug/kg	70	15.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	350	28.	1
Isopropylbenzene	ND		ug/kg	70	14.	1
p-Isopropyltoluene	ND		ug/kg	70	14.	1
Naphthalene	ND		ug/kg	350	9.6	1
n-Propylbenzene	ND		ug/kg	70	15.	1
1,2,3-Trichlorobenzene	ND		ug/kg	350	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	350	15.	1
1,3,5-Trimethylbenzene	ND		ug/kg	350	11.	1
1,2,4-Trimethylbenzene	ND		ug/kg	350	13.	1
Methyl Acetate	ND		ug/kg	1400	32.	1
Cyclohexane	ND		ug/kg	1400	30.	1
1,4-Dioxane	ND		ug/kg	2800	1000	1
Freon-113	ND		ug/kg	1400	36.	1
Methyl cyclohexane	ND		ug/kg	280	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	100		70-130

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-04
Client ID: SP-3-2-071117
Sample Location: BUFFALO, NY

Date Collected: 07/11/17 10:30
Date Received: 07/11/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/16/17 12:48
Analyst: MV
Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	580	96.	1
1,1-Dichloroethane	ND		ug/kg	87	16.	1
Chloroform	ND		ug/kg	87	21.	1
Carbon tetrachloride	ND		ug/kg	58	20.	1
1,2-Dichloropropane	ND		ug/kg	200	13.	1
Dibromochloromethane	ND		ug/kg	58	10.	1
1,1,2-Trichloroethane	ND		ug/kg	87	18.	1
Tetrachloroethene	ND		ug/kg	58	18.	1
Chlorobenzene	ND		ug/kg	58	20.	1
Trichlorofluoromethane	ND		ug/kg	290	24.	1
1,2-Dichloroethane	ND		ug/kg	58	14.	1
1,1,1-Trichloroethane	ND		ug/kg	58	20.	1
Bromodichloromethane	ND		ug/kg	58	18.	1
trans-1,3-Dichloropropene	ND		ug/kg	58	12.	1
cis-1,3-Dichloropropene	ND		ug/kg	58	13.	1
Bromoform	ND		ug/kg	230	14.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	58	17.	1
Benzene	ND		ug/kg	58	11.	1
Toluene	ND		ug/kg	87	11.	1
Ethylbenzene	ND		ug/kg	58	9.9	1
Chloromethane	ND		ug/kg	290	25.	1
Bromomethane	26	J	ug/kg	120	20.	1
Vinyl chloride	ND		ug/kg	120	18.	1
Chloroethane	ND		ug/kg	120	18.	1
1,1-Dichloroethene	ND		ug/kg	58	22.	1
trans-1,2-Dichloroethene	ND		ug/kg	87	14.	1
Trichloroethene	ND		ug/kg	58	18.	1
1,2-Dichlorobenzene	ND		ug/kg	290	10.	1
1,3-Dichlorobenzene	ND		ug/kg	290	13.	1
1,4-Dichlorobenzene	ND		ug/kg	290	10.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-04 Date Collected: 07/11/17 10:30

Client ID: SP-3-2-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	120	8.9	1
p/m-Xylene	ND		ug/kg	120	20.	1
o-Xylene	ND		ug/kg	120	20.	1
cis-1,2-Dichloroethene	ND		ug/kg	58	20.	1
Styrene	ND		ug/kg	120	23.	1
Dichlorodifluoromethane	ND		ug/kg	580	29.	1
Acetone	ND		ug/kg	580	130	1
Carbon disulfide	ND		ug/kg	580	64.	1
2-Butanone	ND		ug/kg	580	40.	1
4-Methyl-2-pentanone	ND		ug/kg	580	14.	1
2-Hexanone	ND		ug/kg	580	39.	1
Bromochloromethane	ND		ug/kg	290	21.	1
1,2-Dibromoethane	ND		ug/kg	230	12.	1
n-Butylbenzene	ND		ug/kg	58	13.	1
sec-Butylbenzene	ND		ug/kg	58	13.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	290	23.	1
Isopropylbenzene	ND		ug/kg	58	11.	1
p-Isopropyltoluene	ND		ug/kg	58	12.	1
Naphthalene	ND		ug/kg	290	8.0	1
n-Propylbenzene	ND		ug/kg	58	12.	1
1,2,3-Trichlorobenzene	ND		ug/kg	290	14.	1
1,2,4-Trichlorobenzene	ND		ug/kg	290	12.	1
1,3,5-Trimethylbenzene	ND		ug/kg	290	9.4	1
1,2,4-Trimethylbenzene	ND		ug/kg	290	11.	1
Methyl Acetate	140	J	ug/kg	1200	27.	1
Cyclohexane	ND		ug/kg	1200	25.	1
1,4-Dioxane	ND		ug/kg	2300	840	1
Freon-113	ND		ug/kg	1200	30.	1
Methyl cyclohexane	ND		ug/kg	230	14.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	102		70-130

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-06
Client ID: SP-5-1-071117
Sample Location: BUFFALO, NY

Date Collected: 07/11/17 11:15
Date Received: 07/11/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/16/17 14:06
Analyst: MV
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	550	90.	1
1,1-Dichloroethane	ND		ug/kg	82	15.	1
Chloroform	ND		ug/kg	82	20.	1
Carbon tetrachloride	ND		ug/kg	55	19.	1
1,2-Dichloropropane	ND		ug/kg	190	12.	1
Dibromochloromethane	ND		ug/kg	55	9.6	1
1,1,2-Trichloroethane	ND		ug/kg	82	17.	1
Tetrachloroethene	ND		ug/kg	55	16.	1
Chlorobenzene	ND		ug/kg	55	19.	1
Trichlorofluoromethane	ND		ug/kg	270	23.	1
1,2-Dichloroethane	ND		ug/kg	55	13.	1
1,1,1-Trichloroethane	ND		ug/kg	55	19.	1
Bromodichloromethane	ND		ug/kg	55	17.	1
trans-1,3-Dichloropropene	ND		ug/kg	55	11.	1
cis-1,3-Dichloropropene	ND		ug/kg	55	13.	1
Bromoform	ND		ug/kg	220	13.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	55	16.	1
Benzene	ND		ug/kg	55	10.	1
Toluene	ND		ug/kg	82	11.	1
Ethylbenzene	ND		ug/kg	55	9.3	1
Chloromethane	ND		ug/kg	270	24.	1
Bromomethane	42	J	ug/kg	110	18.	1
Vinyl chloride	ND		ug/kg	110	17.	1
Chloroethane	ND		ug/kg	110	17.	1
1,1-Dichloroethene	ND		ug/kg	55	20.	1
trans-1,2-Dichloroethene	ND		ug/kg	82	13.	1
Trichloroethene	ND		ug/kg	55	16.	1
1,2-Dichlorobenzene	ND		ug/kg	270	10.	1
1,3-Dichlorobenzene	ND		ug/kg	270	12.	1
1,4-Dichlorobenzene	ND		ug/kg	270	10.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-06 Date Collected: 07/11/17 11:15

Client ID: SP-5-1-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	110	8.4	1
p/m-Xylene	ND		ug/kg	110	19.	1
o-Xylene	ND		ug/kg	110	18.	1
cis-1,2-Dichloroethene	ND		ug/kg	55	19.	1
Styrene	ND		ug/kg	110	22.	1
Dichlorodifluoromethane	ND		ug/kg	550	27.	1
Acetone	ND		ug/kg	550	120	1
Carbon disulfide	ND		ug/kg	550	60.	1
2-Butanone	ND		ug/kg	550	38.	1
4-Methyl-2-pentanone	ND		ug/kg	550	13.	1
2-Hexanone	ND		ug/kg	550	36.	1
Bromochloromethane	ND		ug/kg	270	20.	1
1,2-Dibromoethane	ND		ug/kg	220	11.	1
n-Butylbenzene	ND		ug/kg	55	12.	1
sec-Butylbenzene	ND		ug/kg	55	12.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	270	22.	1
Isopropylbenzene	ND		ug/kg	55	11.	1
p-Isopropyltoluene	ND		ug/kg	55	11.	1
Naphthalene	18	J	ug/kg	270	7.6	1
n-Propylbenzene	ND		ug/kg	55	12.	1
1,2,3-Trichlorobenzene	ND		ug/kg	270	14.	1
1,2,4-Trichlorobenzene	ND		ug/kg	270	12.	1
1,3,5-Trimethylbenzene	ND		ug/kg	270	8.8	1
1,2,4-Trimethylbenzene	ND		ug/kg	270	10.	1
Methyl Acetate	ND		ug/kg	1100	25.	1
Cyclohexane	ND		ug/kg	1100	24.	1
1,4-Dioxane	ND		ug/kg	2200	790	1
Freon-113	ND		ug/kg	1100	28.	1
Methyl cyclohexane	ND		ug/kg	220	13.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	104		70-130

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-08
Client ID: SP-6-0.5-071117
Sample Location: BUFFALO, NY

Date Collected: 07/11/17 11:40
Date Received: 07/11/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/16/17 14:33
Analyst: MV
Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	1000	160	1
1,1-Dichloroethane	ND		ug/kg	150	27.	1
Chloroform	ND		ug/kg	150	37.	1
Carbon tetrachloride	ND		ug/kg	100	34.	1
1,2-Dichloropropane	ND		ug/kg	350	23.	1
Dibromochloromethane	ND		ug/kg	100	18.	1
1,1,2-Trichloroethane	ND		ug/kg	150	31.	1
Tetrachloroethene	ND		ug/kg	100	30.	1
Chlorobenzene	ND		ug/kg	100	35.	1
Trichlorofluoromethane	ND		ug/kg	500	42.	1
1,2-Dichloroethane	ND		ug/kg	100	24.	1
1,1,1-Trichloroethane	ND		ug/kg	100	35.	1
Bromodichloromethane	ND		ug/kg	100	31.	1
trans-1,3-Dichloropropene	ND		ug/kg	100	21.	1
cis-1,3-Dichloropropene	ND		ug/kg	100	23.	1
Bromoform	ND		ug/kg	400	24.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	100	30.	1
Benzene	ND		ug/kg	100	19.	1
Toluene	33	J	ug/kg	150	19.	1
Ethylbenzene	ND		ug/kg	100	17.	1
Chloromethane	ND		ug/kg	500	43.	1
Bromomethane	ND		ug/kg	200	34.	1
Vinyl chloride	ND		ug/kg	200	31.	1
Chloroethane	ND		ug/kg	200	31.	1
1,1-Dichloroethene	ND		ug/kg	100	37.	1
trans-1,2-Dichloroethene	ND		ug/kg	150	24.	1
Trichloroethene	ND		ug/kg	100	30.	1
1,2-Dichlorobenzene	ND		ug/kg	500	18.	1
1,3-Dichlorobenzene	ND		ug/kg	500	22.	1
1,4-Dichlorobenzene	ND		ug/kg	500	18.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-08 Date Collected: 07/11/17 11:40

Client ID: SP-6-0.5-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	200	15.	1
p/m-Xylene	ND		ug/kg	200	35.	1
o-Xylene	ND		ug/kg	200	34.	1
cis-1,2-Dichloroethene	ND		ug/kg	100	34.	1
Styrene	ND		ug/kg	200	40.	1
Dichlorodifluoromethane	ND		ug/kg	1000	50.	1
Acetone	460	J	ug/kg	1000	230	1
Carbon disulfide	ND		ug/kg	1000	110	1
2-Butanone	ND		ug/kg	1000	69.	1
4-Methyl-2-pentanone	ND		ug/kg	1000	24.	1
2-Hexanone	ND		ug/kg	1000	66.	1
Bromochloromethane	ND		ug/kg	500	36.	1
1,2-Dibromoethane	ND		ug/kg	400	20.	1
n-Butylbenzene	ND		ug/kg	100	23.	1
sec-Butylbenzene	ND		ug/kg	100	22.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	500	39.	1
Isopropylbenzene	ND		ug/kg	100	19.	1
p-Isopropyltoluene	ND		ug/kg	100	20.	1
Naphthalene	22	J	ug/kg	500	14.	1
n-Propylbenzene	ND		ug/kg	100	21.	1
1,2,3-Trichlorobenzene	ND		ug/kg	500	25.	1
1,2,4-Trichlorobenzene	ND		ug/kg	500	21.	1
1,3,5-Trimethylbenzene	32	J	ug/kg	500	16.	1
1,2,4-Trimethylbenzene	33	J	ug/kg	500	18.	1
Methyl Acetate	870	J	ug/kg	2000	46.	1
Cyclohexane	240	J	ug/kg	2000	43.	1
1,4-Dioxane	ND		ug/kg	4000	1400	1
Freon-113	ND		ug/kg	2000	51.	1
Methyl cyclohexane	820		ug/kg	400	24.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	99		70-130

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-10
Client ID: SP-7-4-071117
Sample Location: BUFFALO, NY

Date Collected: 07/11/17 12:30
Date Received: 07/11/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/16/17 14:59
Analyst: MV
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	600	99.	1
1,1-Dichloroethane	ND		ug/kg	90	16.	1
Chloroform	ND		ug/kg	90	22.	1
Carbon tetrachloride	ND		ug/kg	60	21.	1
1,2-Dichloropropane	ND		ug/kg	210	14.	1
Dibromochloromethane	ND		ug/kg	60	10.	1
1,1,2-Trichloroethane	ND		ug/kg	90	19.	1
Tetrachloroethene	ND		ug/kg	60	18.	1
Chlorobenzene	ND		ug/kg	60	21.	1
Trichlorofluoromethane	ND		ug/kg	300	25.	1
1,2-Dichloroethane	ND		ug/kg	60	15.	1
1,1,1-Trichloroethane	ND		ug/kg	60	21.	1
Bromodichloromethane	ND		ug/kg	60	18.	1
trans-1,3-Dichloropropene	ND		ug/kg	60	12.	1
cis-1,3-Dichloropropene	ND		ug/kg	60	14.	1
Bromoform	ND		ug/kg	240	14.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	60	18.	1
Benzene	ND		ug/kg	60	12.	1
Toluene	ND		ug/kg	90	12.	1
Ethylbenzene	ND		ug/kg	60	10.	1
Chloromethane	ND		ug/kg	300	26.	1
Bromomethane	28	J	ug/kg	120	20.	1
Vinyl chloride	ND		ug/kg	120	19.	1
Chloroethane	ND		ug/kg	120	19.	1
1,1-Dichloroethene	ND		ug/kg	60	22.	1
trans-1,2-Dichloroethene	ND		ug/kg	90	14.	1
Trichloroethene	ND		ug/kg	60	18.	1
1,2-Dichlorobenzene	ND		ug/kg	300	11.	1
1,3-Dichlorobenzene	ND		ug/kg	300	13.	1
1,4-Dichlorobenzene	ND		ug/kg	300	11.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-10 Date Collected: 07/11/17 12:30

Client ID: SP-7-4-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	120	9.2	1
p/m-Xylene	ND		ug/kg	120	21.	1
o-Xylene	ND		ug/kg	120	20.	1
cis-1,2-Dichloroethene	ND		ug/kg	60	20.	1
Styrene	ND		ug/kg	120	24.	1
Dichlorodifluoromethane	ND		ug/kg	600	30.	1
Acetone	ND		ug/kg	600	140	1
Carbon disulfide	ND		ug/kg	600	66.	1
2-Butanone	ND		ug/kg	600	41.	1
4-Methyl-2-pentanone	ND		ug/kg	600	15.	1
2-Hexanone	ND		ug/kg	600	40.	1
Bromochloromethane	ND		ug/kg	300	21.	1
1,2-Dibromoethane	ND		ug/kg	240	12.	1
n-Butylbenzene	ND		ug/kg	60	14.	1
sec-Butylbenzene	ND		ug/kg	60	13.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	300	24.	1
Isopropylbenzene	ND		ug/kg	60	12.	1
p-Isopropyltoluene	ND		ug/kg	60	12.	1
Naphthalene	ND		ug/kg	300	8.3	1
n-Propylbenzene	ND		ug/kg	60	13.	1
1,2,3-Trichlorobenzene	ND		ug/kg	300	15.	1
1,2,4-Trichlorobenzene	ND		ug/kg	300	13.	1
1,3,5-Trimethylbenzene	ND		ug/kg	300	9.6	1
1,2,4-Trimethylbenzene	ND		ug/kg	300	11.	1
Methyl Acetate	ND		ug/kg	1200	28.	1
Cyclohexane	ND		ug/kg	1200	26.	1
1,4-Dioxane	ND		ug/kg	2400	860	1
Freon-113	ND		ug/kg	1200	31.	1
Methyl cyclohexane	ND		ug/kg	240	14.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	101		70-130

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-12
Client ID: SP-8-0.5-071117
Sample Location: BUFFALO, NY

Date Collected: 07/11/17 13:00
Date Received: 07/11/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/16/17 15:25
Analyst: MV
Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	580	95.	1
1,1-Dichloroethane	ND		ug/kg	86	16.	1
Chloroform	ND		ug/kg	86	21.	1
Carbon tetrachloride	ND		ug/kg	58	20.	1
1,2-Dichloropropane	ND		ug/kg	200	13.	1
Dibromochloromethane	ND		ug/kg	58	10.	1
1,1,2-Trichloroethane	ND		ug/kg	86	18.	1
Tetrachloroethene	ND		ug/kg	58	17.	1
Chlorobenzene	ND		ug/kg	58	20.	1
Trichlorofluoromethane	ND		ug/kg	290	24.	1
1,2-Dichloroethane	ND		ug/kg	58	14.	1
1,1,1-Trichloroethane	ND		ug/kg	58	20.	1
Bromodichloromethane	ND		ug/kg	58	18.	1
trans-1,3-Dichloropropene	ND		ug/kg	58	12.	1
cis-1,3-Dichloropropene	ND		ug/kg	58	13.	1
Bromoform	ND		ug/kg	230	14.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	58	17.	1
Benzene	ND		ug/kg	58	11.	1
Toluene	ND		ug/kg	86	11.	1
Ethylbenzene	ND		ug/kg	58	9.8	1
Chloromethane	ND		ug/kg	290	25.	1
Bromomethane	24	J	ug/kg	120	20.	1
Vinyl chloride	ND		ug/kg	120	18.	1
Chloroethane	ND		ug/kg	120	18.	1
1,1-Dichloroethene	ND		ug/kg	58	21.	1
trans-1,2-Dichloroethene	ND		ug/kg	86	14.	1
Trichloroethene	ND		ug/kg	58	17.	1
1,2-Dichlorobenzene	ND		ug/kg	290	10.	1
1,3-Dichlorobenzene	ND		ug/kg	290	12.	1
1,4-Dichlorobenzene	ND		ug/kg	290	10.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-12 Date Collected: 07/11/17 13:00

Client ID: SP-8-0.5-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	120	8.8	1
p/m-Xylene	ND		ug/kg	120	20.	1
o-Xylene	ND		ug/kg	120	20.	1
cis-1,2-Dichloroethene	ND		ug/kg	58	20.	1
Styrene	ND		ug/kg	120	23.	1
Dichlorodifluoromethane	ND		ug/kg	580	29.	1
Acetone	ND		ug/kg	580	130	1
Carbon disulfide	ND		ug/kg	580	63.	1
2-Butanone	ND		ug/kg	580	40.	1
4-Methyl-2-pentanone	ND		ug/kg	580	14.	1
2-Hexanone	ND		ug/kg	580	38.	1
Bromochloromethane	ND		ug/kg	290	21.	1
1,2-Dibromoethane	ND		ug/kg	230	11.	1
n-Butylbenzene	ND		ug/kg	58	13.	1
sec-Butylbenzene	ND		ug/kg	58	12.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	290	23.	1
Isopropylbenzene	ND		ug/kg	58	11.	1
p-Isopropyltoluene	ND		ug/kg	58	12.	1
Naphthalene	ND		ug/kg	290	8.0	1
n-Propylbenzene	ND		ug/kg	58	12.	1
1,2,3-Trichlorobenzene	ND		ug/kg	290	14.	1
1,2,4-Trichlorobenzene	ND		ug/kg	290	12.	1
1,3,5-Trimethylbenzene	ND		ug/kg	290	9.3	1
1,2,4-Trimethylbenzene	ND		ug/kg	290	11.	1
Methyl Acetate	ND		ug/kg	1200	27.	1
Cyclohexane	ND		ug/kg	1200	25.	1
1,4-Dioxane	ND		ug/kg	2300	830	1
Freon-113	ND		ug/kg	1200	30.	1
Methyl cyclohexane	ND		ug/kg	230	14.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	98		70-130

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-14
Client ID: SP-9-2-071117
Sample Location: BUFFALO, NY

Date Collected: 07/11/17 13:20
Date Received: 07/11/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/16/17 15:51
Analyst: MV
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	1100	190	1
1,1-Dichloroethane	ND		ug/kg	170	30.	1
Chloroform	ND		ug/kg	170	42.	1
Carbon tetrachloride	ND		ug/kg	110	39.	1
1,2-Dichloropropane	ND		ug/kg	400	26.	1
Dibromochloromethane	ND		ug/kg	110	20.	1
1,1,2-Trichloroethane	ND		ug/kg	170	35.	1
Tetrachloroethene	ND		ug/kg	110	34.	1
Chlorobenzene	ND		ug/kg	110	39.	1
Trichlorofluoromethane	ND		ug/kg	560	47.	1
1,2-Dichloroethane	ND		ug/kg	110	28.	1
1,1,1-Trichloroethane	ND		ug/kg	110	40.	1
Bromodichloromethane	ND		ug/kg	110	35.	1
trans-1,3-Dichloropropene	ND		ug/kg	110	23.	1
cis-1,3-Dichloropropene	ND		ug/kg	110	26.	1
Bromoform	ND		ug/kg	450	27.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	110	34.	1
Benzene	ND		ug/kg	110	22.	1
Toluene	100	J	ug/kg	170	22.	1
Ethylbenzene	ND		ug/kg	110	19.	1
Chloromethane	ND		ug/kg	560	49.	1
Bromomethane	75	J	ug/kg	220	38.	1
Vinyl chloride	ND		ug/kg	220	36.	1
Chloroethane	ND		ug/kg	220	36.	1
1,1-Dichloroethene	ND		ug/kg	110	42.	1
trans-1,2-Dichloroethene	ND		ug/kg	170	27.	1
Trichloroethene	ND		ug/kg	110	34.	1
1,2-Dichlorobenzene	ND		ug/kg	560	20.	1
1,3-Dichlorobenzene	ND		ug/kg	560	25.	1
1,4-Dichlorobenzene	ND		ug/kg	560	20.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-14 Date Collected: 07/11/17 13:20

Client ID: SP-9-2-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	220	17.	1
p/m-Xylene	200	J	ug/kg	220	40.	1
o-Xylene	110	J	ug/kg	220	38.	1
cis-1,2-Dichloroethene	ND		ug/kg	110	39.	1
Styrene	ND		ug/kg	220	45.	1
Dichlorodifluoromethane	ND		ug/kg	1100	56.	1
Acetone	ND		ug/kg	1100	260	1
Carbon disulfide	ND		ug/kg	1100	120	1
2-Butanone	ND		ug/kg	1100	78.	1
4-Methyl-2-pentanone	ND		ug/kg	1100	28.	1
2-Hexanone	ND		ug/kg	1100	75.	1
Bromochloromethane	ND		ug/kg	560	40.	1
1,2-Dibromoethane	ND		ug/kg	450	22.	1
n-Butylbenzene	ND		ug/kg	110	26.	1
sec-Butylbenzene	ND		ug/kg	110	24.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	560	45.	1
Isopropylbenzene	ND		ug/kg	110	22.	1
p-Isopropyltoluene	ND		ug/kg	110	23.	1
Naphthalene	64	J	ug/kg	560	16.	1
n-Propylbenzene	ND		ug/kg	110	24.	1
1,2,3-Trichlorobenzene	ND		ug/kg	560	28.	1
1,2,4-Trichlorobenzene	ND		ug/kg	560	24.	1
1,3,5-Trimethylbenzene	45	J	ug/kg	560	18.	1
1,2,4-Trimethylbenzene	95	J	ug/kg	560	21.	1
Methyl Acetate	ND		ug/kg	2200	52.	1
Cyclohexane	290	J	ug/kg	2200	49.	1
1,4-Dioxane	ND		ug/kg	4500	1600	1
Freon-113	ND		ug/kg	2200	58.	1
Methyl cyclohexane	810		ug/kg	450	27.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	100		70-130

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-16
Client ID: SP-10-4-071117
Sample Location: BUFFALO, NY

Date Collected: 07/11/17 13:50
Date Received: 07/11/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/16/17 18:55
Analyst: MV
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	1200	200	1
1,1-Dichloroethane	ND		ug/kg	180	33.	1
Chloroform	ND		ug/kg	180	45.	1
Carbon tetrachloride	ND		ug/kg	120	42.	1
1,2-Dichloropropane	ND		ug/kg	430	28.	1
Dibromochloromethane	ND		ug/kg	120	21.	1
1,1,2-Trichloroethane	ND		ug/kg	180	38.	1
Tetrachloroethene	ND		ug/kg	120	37.	1
Chlorobenzene	ND		ug/kg	120	42.	1
Trichlorofluoromethane	ND		ug/kg	610	51.	1
1,2-Dichloroethane	ND		ug/kg	120	30.	1
1,1,1-Trichloroethane	ND		ug/kg	120	43.	1
Bromodichloromethane	ND		ug/kg	120	38.	1
trans-1,3-Dichloropropene	ND		ug/kg	120	25.	1
cis-1,3-Dichloropropene	ND		ug/kg	120	28.	1
Bromoform	ND		ug/kg	490	29.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	120	36.	1
Benzene	120		ug/kg	120	24.	1
Toluene	580		ug/kg	180	24.	1
Ethylbenzene	100	J	ug/kg	120	21.	1
Chloromethane	ND		ug/kg	610	53.	1
Bromomethane	ND		ug/kg	240	41.	1
Vinyl chloride	ND		ug/kg	240	38.	1
Chloroethane	ND		ug/kg	240	38.	1
1,1-Dichloroethene	ND		ug/kg	120	45.	1
trans-1,2-Dichloroethene	ND		ug/kg	180	29.	1
Trichloroethene	290		ug/kg	120	37.	1
1,2-Dichlorobenzene	ND		ug/kg	610	22.	1
1,3-Dichlorobenzene	ND		ug/kg	610	26.	1
1,4-Dichlorobenzene	ND		ug/kg	610	22.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-16 Date Collected: 07/11/17 13:50

Client ID: SP-10-4-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	240	19.	1
p/m-Xylene	720		ug/kg	240	43.	1
o-Xylene	390		ug/kg	240	41.	1
cis-1,2-Dichloroethene	ND		ug/kg	120	42.	1
Styrene	ND		ug/kg	240	49.	1
Dichlorodifluoromethane	ND		ug/kg	1200	61.	1
Acetone	ND		ug/kg	1200	280	1
Carbon disulfide	ND		ug/kg	1200	130	1
2-Butanone	ND		ug/kg	1200	84.	1
4-Methyl-2-pentanone	ND		ug/kg	1200	30.	1
2-Hexanone	ND		ug/kg	1200	81.	1
Bromochloromethane	ND		ug/kg	610	44.	1
1,2-Dibromoethane	ND		ug/kg	490	24.	1
n-Butylbenzene	ND		ug/kg	120	28.	1
sec-Butylbenzene	31	J	ug/kg	120	26.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	610	48.	1
Isopropylbenzene	46	J	ug/kg	120	24.	1
p-Isopropyltoluene	28	J	ug/kg	120	25.	1
Naphthalene	220	J	ug/kg	610	17.	1
n-Propylbenzene	53	J	ug/kg	120	26.	1
1,2,3-Trichlorobenzene	ND		ug/kg	610	30.	1
1,2,4-Trichlorobenzene	ND		ug/kg	610	26.	1
1,3,5-Trimethylbenzene	140	J	ug/kg	610	20.	1
1,2,4-Trimethylbenzene	320	J	ug/kg	610	23.	1
Methyl Acetate	1100	J	ug/kg	2400	56.	1
Cyclohexane	320	J	ug/kg	2400	53.	1
1,4-Dioxane	ND		ug/kg	4900	1800	1
Freon-113	ND		ug/kg	2400	63.	1
Methyl cyclohexane	1300		ug/kg	490	29.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	97		70-130

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-18
Client ID: SP-11-3-071117
Sample Location: BUFFALO, NY

Date Collected: 07/11/17 14:20
Date Received: 07/11/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/16/17 19:21
Analyst: MV
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	1300	220	1
1,1-Dichloroethane	ND		ug/kg	200	36.	1
Chloroform	ND		ug/kg	200	49.	1
Carbon tetrachloride	ND		ug/kg	130	46.	1
1,2-Dichloropropane	ND		ug/kg	460	30.	1
Dibromochloromethane	ND		ug/kg	130	23.	1
1,1,2-Trichloroethane	ND		ug/kg	200	42.	1
Tetrachloroethene	ND		ug/kg	130	40.	1
Chlorobenzene	ND		ug/kg	130	46.	1
Trichlorofluoromethane	ND		ug/kg	660	55.	1
1,2-Dichloroethane	ND		ug/kg	130	33.	1
1,1,1-Trichloroethane	ND		ug/kg	130	46.	1
Bromodichloromethane	ND		ug/kg	130	41.	1
trans-1,3-Dichloropropene	ND		ug/kg	130	28.	1
cis-1,3-Dichloropropene	ND		ug/kg	130	31.	1
Bromoform	ND		ug/kg	530	32.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	130	40.	1
Benzene	360		ug/kg	130	26.	1
Toluene	6800		ug/kg	200	26.	1
Ethylbenzene	1800		ug/kg	130	23.	1
Chloromethane	73	J	ug/kg	660	58.	1
Bromomethane	ND		ug/kg	260	45.	1
Vinyl chloride	ND		ug/kg	260	42.	1
Chloroethane	ND		ug/kg	260	42.	1
1,1-Dichloroethene	ND		ug/kg	130	49.	1
trans-1,2-Dichloroethene	ND		ug/kg	200	32.	1
Trichloroethene	ND		ug/kg	130	40.	1
1,2-Dichlorobenzene	ND		ug/kg	660	24.	1
1,3-Dichlorobenzene	ND		ug/kg	660	29.	1
1,4-Dichlorobenzene	ND		ug/kg	660	24.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-18 Date Collected: 07/11/17 14:20

Client ID: SP-11-3-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	260	20.	1
p/m-Xylene	10000		ug/kg	260	47.	1
o-Xylene	6300		ug/kg	260	45.	1
cis-1,2-Dichloroethene	ND		ug/kg	130	45.	1
Styrene	ND		ug/kg	260	53.	1
Dichlorodifluoromethane	ND		ug/kg	1300	66.	1
Acetone	1800		ug/kg	1300	300	1
Carbon disulfide	ND		ug/kg	1300	150	1
2-Butanone	ND		ug/kg	1300	92.	1
4-Methyl-2-pentanone	ND		ug/kg	1300	32.	1
2-Hexanone	ND		ug/kg	1300	88.	1
Bromochloromethane	ND		ug/kg	660	47.	1
1,2-Dibromoethane	ND		ug/kg	530	26.	1
n-Butylbenzene	310		ug/kg	130	30.	1
sec-Butylbenzene	240		ug/kg	130	29.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	660	53.	1
Isopropylbenzene	620		ug/kg	130	26.	1
p-Isopropyltoluene	220		ug/kg	130	27.	1
Naphthalene	5400		ug/kg	660	18.	1
n-Propylbenzene	960		ug/kg	130	28.	1
1,2,3-Trichlorobenzene	ND		ug/kg	660	33.	1
1,2,4-Trichlorobenzene	ND		ug/kg	660	28.	1
1,3,5-Trimethylbenzene	860		ug/kg	660	21.	1
1,2,4-Trimethylbenzene	3700		ug/kg	660	25.	1
Methyl Acetate	ND		ug/kg	2600	62.	1
Cyclohexane	7200		ug/kg	2600	58.	1
1,4-Dioxane	ND		ug/kg	5300	1900	1
Freon-113	ND		ug/kg	2600	68.	1
Methyl cyclohexane	19000		ug/kg	530	32.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	119		70-130
4-Bromofluorobenzene	120		70-130
Dibromofluoromethane	99		70-130

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-20
Client ID: SP-12-1.5-071117
Sample Location: BUFFALO, NY

Date Collected: 07/11/17 14:45
Date Received: 07/11/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/15/17 18:33
Analyst: CBN
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	960	160	1
1,1-Dichloroethane	ND		ug/kg	140	26.	1
Chloroform	ND		ug/kg	140	36.	1
Carbon tetrachloride	ND		ug/kg	96	33.	1
1,2-Dichloropropane	ND		ug/kg	340	22.	1
Dibromochloromethane	ND		ug/kg	96	17.	1
1,1,2-Trichloroethane	ND		ug/kg	140	30.	1
Tetrachloroethene	ND		ug/kg	96	29.	1
Chlorobenzene	ND		ug/kg	96	34.	1
Trichlorofluoromethane	ND		ug/kg	480	40.	1
1,2-Dichloroethane	ND		ug/kg	96	24.	1
1,1,1-Trichloroethane	ND		ug/kg	96	34.	1
Bromodichloromethane	ND		ug/kg	96	30.	1
trans-1,3-Dichloropropene	ND		ug/kg	96	20.	1
cis-1,3-Dichloropropene	ND		ug/kg	96	22.	1
Bromoform	ND		ug/kg	390	23.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	96	29.	1
Benzene	ND		ug/kg	96	19.	1
Toluene	22	J	ug/kg	140	19.	1
Ethylbenzene	ND		ug/kg	96	16.	1
Chloromethane	ND		ug/kg	480	42.	1
Bromomethane	ND		ug/kg	190	33.	1
Vinyl chloride	ND		ug/kg	190	30.	1
Chloroethane	ND		ug/kg	190	30.	1
1,1-Dichloroethene	ND		ug/kg	96	36.	1
trans-1,2-Dichloroethene	ND		ug/kg	140	23.	1
Trichloroethene	43	J	ug/kg	96	29.	1
1,2-Dichlorobenzene	ND		ug/kg	480	18.	1
1,3-Dichlorobenzene	ND		ug/kg	480	21.	1
1,4-Dichlorobenzene	ND		ug/kg	480	18.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-20 Date Collected: 07/11/17 14:45

Client ID: SP-12-1.5-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	190	15.	1
p/m-Xylene	39	J	ug/kg	190	34.	1
o-Xylene	40	J	ug/kg	190	33.	1
cis-1,2-Dichloroethene	ND		ug/kg	96	33.	1
Styrene	ND		ug/kg	190	39.	1
Dichlorodifluoromethane	ND		ug/kg	960	48.	1
Acetone	320	J	ug/kg	960	220	1
Carbon disulfide	150	J	ug/kg	960	110	1
2-Butanone	ND		ug/kg	960	67.	1
4-Methyl-2-pentanone	ND		ug/kg	960	24.	1
2-Hexanone	ND		ug/kg	960	64.	1
Bromochloromethane	ND		ug/kg	480	34.	1
1,2-Dibromoethane	ND		ug/kg	390	19.	1
n-Butylbenzene	ND		ug/kg	96	22.	1
sec-Butylbenzene	ND		ug/kg	96	21.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	480	38.	1
Isopropylbenzene	ND		ug/kg	96	19.	1
p-Isopropyltoluene	ND		ug/kg	96	20.	1
Naphthalene	40	J	ug/kg	480	13.	1
n-Propylbenzene	ND		ug/kg	96	21.	1
1,2,3-Trichlorobenzene	ND		ug/kg	480	24.	1
1,2,4-Trichlorobenzene	ND		ug/kg	480	21.	1
1,3,5-Trimethylbenzene	17	J	ug/kg	480	16.	1
1,2,4-Trimethylbenzene	32	J	ug/kg	480	18.	1
Methyl Acetate	420	J	ug/kg	1900	45.	1
Cyclohexane	88	J	ug/kg	1900	42.	1
1,4-Dioxane	ND		ug/kg	3900	1400	1
Freon-113	ND		ug/kg	1900	50.	1
Methyl cyclohexane	340	J	ug/kg	390	23.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	102		70-130

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-22
Client ID: SP-13-4.5-071117
Sample Location: BUFFALO, NY

Date Collected: 07/11/17 15:15
Date Received: 07/11/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/15/17 18:59
Analyst: CBN
Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	1800	300	1
1,1-Dichloroethane	150	J	ug/kg	270	49.	1
Chloroform	ND		ug/kg	270	67.	1
Carbon tetrachloride	ND		ug/kg	180	63.	1
1,2-Dichloropropane	ND		ug/kg	640	42.	1
Dibromochloromethane	ND		ug/kg	180	32.	1
1,1,2-Trichloroethane	ND		ug/kg	270	57.	1
Tetrachloroethene	ND		ug/kg	180	55.	1
Chlorobenzene	ND		ug/kg	180	63.	1
Trichlorofluoromethane	ND		ug/kg	910	76.	1
1,2-Dichloroethane	ND		ug/kg	180	45.	1
1,1,1-Trichloroethane	ND		ug/kg	180	64.	1
Bromodichloromethane	ND		ug/kg	180	56.	1
trans-1,3-Dichloropropene	ND		ug/kg	180	38.	1
cis-1,3-Dichloropropene	ND		ug/kg	180	42.	1
Bromoform	ND		ug/kg	730	43.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	180	54.	1
Benzene	68	J	ug/kg	180	35.	1
Toluene	160	J	ug/kg	270	36.	1
Ethylbenzene	61	J	ug/kg	180	31.	1
Chloromethane	ND		ug/kg	910	79.	1
Bromomethane	ND		ug/kg	360	62.	1
Vinyl chloride	ND		ug/kg	360	57.	1
Chloroethane	ND		ug/kg	360	58.	1
1,1-Dichloroethene	ND		ug/kg	180	68.	1
trans-1,2-Dichloroethene	64	J	ug/kg	270	44.	1
Trichloroethene	23000		ug/kg	180	55.	1
1,2-Dichlorobenzene	ND		ug/kg	910	33.	1
1,3-Dichlorobenzene	ND		ug/kg	910	40.	1
1,4-Dichlorobenzene	ND		ug/kg	910	33.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-22 Date Collected: 07/11/17 15:15

Client ID: SP-13-4.5-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	360	28.	1
p/m-Xylene	370		ug/kg	360	64.	1
o-Xylene	120	J	ug/kg	360	62.	1
cis-1,2-Dichloroethene	730		ug/kg	180	62.	1
Styrene	ND		ug/kg	360	73.	1
Dichlorodifluoromethane	ND		ug/kg	1800	91.	1
Acetone	640	J	ug/kg	1800	420	1
Carbon disulfide	310	J	ug/kg	1800	200	1
2-Butanone	ND		ug/kg	1800	120	1
4-Methyl-2-pentanone	ND		ug/kg	1800	44.	1
2-Hexanone	ND		ug/kg	1800	120	1
Bromochloromethane	ND		ug/kg	910	65.	1
1,2-Dibromoethane	ND		ug/kg	730	36.	1
n-Butylbenzene	ND		ug/kg	180	42.	1
sec-Butylbenzene	ND		ug/kg	180	40.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	910	72.	1
Isopropylbenzene	ND		ug/kg	180	35.	1
p-Isopropyltoluene	ND		ug/kg	180	37.	1
Naphthalene	ND		ug/kg	910	25.	1
n-Propylbenzene	ND		ug/kg	180	39.	1
1,2,3-Trichlorobenzene	ND		ug/kg	910	46.	1
1,2,4-Trichlorobenzene	ND		ug/kg	910	39.	1
1,3,5-Trimethylbenzene	77	J	ug/kg	910	29.	1
1,2,4-Trimethylbenzene	220	J	ug/kg	910	34.	1
Methyl Acetate	570	J	ug/kg	3600	84.	1
Cyclohexane	ND		ug/kg	3600	79.	1
1,4-Dioxane	ND		ug/kg	7300	2600	1
Freon-113	ND		ug/kg	3600	94.	1
Methyl cyclohexane	220	J	ug/kg	730	44.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	102		70-130

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-24
Client ID: SUBSURFACE DUPLICATE -071117
Sample Location: BUFFALO, NY

Date Collected: 07/11/17 00:00
Date Received: 07/11/17
Field Prep: Not Specified

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 07/15/17 19:24
Analyst: CBN
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	630	100	1
1,1-Dichloroethane	ND		ug/kg	94	17.	1
Chloroform	ND		ug/kg	94	23.	1
Carbon tetrachloride	ND		ug/kg	63	22.	1
1,2-Dichloropropane	ND		ug/kg	220	14.	1
Dibromochloromethane	ND		ug/kg	63	11.	1
1,1,2-Trichloroethane	ND		ug/kg	94	20.	1
Tetrachloroethene	ND		ug/kg	63	19.	1
Chlorobenzene	ND		ug/kg	63	22.	1
Trichlorofluoromethane	ND		ug/kg	310	26.	1
1,2-Dichloroethane	ND		ug/kg	63	15.	1
1,1,1-Trichloroethane	ND		ug/kg	63	22.	1
Bromodichloromethane	ND		ug/kg	63	19.	1
trans-1,3-Dichloropropene	ND		ug/kg	63	13.	1
cis-1,3-Dichloropropene	ND		ug/kg	63	14.	1
Bromoform	ND		ug/kg	250	15.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	63	19.	1
Benzene	ND		ug/kg	63	12.	1
Toluene	ND		ug/kg	94	12.	1
Ethylbenzene	ND		ug/kg	63	11.	1
Chloromethane	ND		ug/kg	310	27.	1
Bromomethane	ND		ug/kg	120	21.	1
Vinyl chloride	ND		ug/kg	120	20.	1
Chloroethane	ND		ug/kg	120	20.	1
1,1-Dichloroethene	ND		ug/kg	63	23.	1
trans-1,2-Dichloroethene	ND		ug/kg	94	15.	1
Trichloroethene	ND		ug/kg	63	19.	1
1,2-Dichlorobenzene	ND		ug/kg	310	11.	1
1,3-Dichlorobenzene	ND		ug/kg	310	14.	1
1,4-Dichlorobenzene	ND		ug/kg	310	11.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-24 Date Collected: 07/11/17 00:00

Client ID: SUBSURFACE DUPLICATE -071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	120	9.6	1
p/m-Xylene	ND		ug/kg	120	22.	1
o-Xylene	ND		ug/kg	120	21.	1
cis-1,2-Dichloroethene	ND		ug/kg	63	21.	1
Styrene	ND		ug/kg	120	25.	1
Dichlorodifluoromethane	ND		ug/kg	630	31.	1
Acetone	190	J	ug/kg	630	140	1
Carbon disulfide	180	J	ug/kg	630	69.	1
2-Butanone	ND		ug/kg	630	43.	1
4-Methyl-2-pentanone	ND		ug/kg	630	15.	1
2-Hexanone	ND		ug/kg	630	42.	1
Bromochloromethane	ND		ug/kg	310	22.	1
1,2-Dibromoethane	ND		ug/kg	250	12.	1
n-Butylbenzene	ND		ug/kg	63	14.	1
sec-Butylbenzene	ND		ug/kg	63	14.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	310	25.	1
Isopropylbenzene	ND		ug/kg	63	12.	1
p-Isopropyltoluene	ND		ug/kg	63	13.	1
Naphthalene	ND		ug/kg	310	8.6	1
n-Propylbenzene	ND		ug/kg	63	13.	1
1,2,3-Trichlorobenzene	ND		ug/kg	310	16.	1
1,2,4-Trichlorobenzene	ND		ug/kg	310	13.	1
1,3,5-Trimethylbenzene	ND		ug/kg	310	10.	1
1,2,4-Trimethylbenzene	ND		ug/kg	310	12.	1
Methyl Acetate	ND		ug/kg	1200	29.	1
Cyclohexane	ND		ug/kg	1200	27.	1
1,4-Dioxane	ND		ug/kg	2500	900	1
Freon-113	ND		ug/kg	1200	32.	1
Methyl cyclohexane	ND		ug/kg	250	15.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	101		70-130

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-25
Client ID: SP-9-GW-071117
Sample Location: BUFFALO, NY

Date Collected: 07/11/17 15:30
Date Received: 07/11/17
Field Prep: Not Specified

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/15/17 14:53
Analyst: PD

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
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
Trichloroethene	0.29	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

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-25 Date Collected: 07/11/17 15:30

Client ID: SP-9-GW-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	0.96	J	ug/l	2.5	0.70	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
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
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	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
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
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	114		70-130

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-26
Client ID: SP-13-GW-071117
Sample Location: BUFFALO, NY

Date Collected: 07/11/17 15:45
Date Received: 07/11/17
Field Prep: Not Specified

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 07/17/17 23:30
Analyst: PK

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	3.2		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
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
Trichloroethene	28		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

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-26 Date Collected: 07/11/17 15:45

Client ID: SP-13-GW-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	2.3	J	ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	9.3		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
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
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	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
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
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	0.54	J	ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	110		70-130

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/15/17 10:52
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 20,22,24 Batch: WG1023111-5					
Methylene chloride	ND		ug/kg	500	82.
1,1-Dichloroethane	ND		ug/kg	75	14.
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	17.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	8.8
1,1,2-Trichloroethane	ND		ug/kg	75	16.
Tetrachloroethene	ND		ug/kg	50	15.
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	21.
1,2-Dichloroethane	ND		ug/kg	50	12.
1,1,1-Trichloroethane	ND		ug/kg	50	18.
Bromodichloromethane	ND		ug/kg	50	15.
trans-1,3-Dichloropropene	ND		ug/kg	50	10.
cis-1,3-Dichloropropene	ND		ug/kg	50	12.
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	15.
Benzene	ND		ug/kg	50	9.6
Toluene	ND		ug/kg	75	9.8
Ethylbenzene	ND		ug/kg	50	8.5
Chloromethane	ND		ug/kg	250	22.
Bromomethane	ND		ug/kg	100	17.
Vinyl chloride	ND		ug/kg	100	16.
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	19.
trans-1,2-Dichloroethene	ND		ug/kg	75	12.
Trichloroethene	ND		ug/kg	50	15.
1,2-Dichlorobenzene	ND		ug/kg	250	9.1
1,3-Dichlorobenzene	ND		ug/kg	250	11.

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/15/17 10:52
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 20,22,24 Batch: WG1023111-5					
1,4-Dichlorobenzene	ND		ug/kg	250	9.1
Methyl tert butyl ether	ND		ug/kg	100	7.6
p/m-Xylene	ND		ug/kg	100	18.
o-Xylene	ND		ug/kg	100	17.
cis-1,2-Dichloroethene	ND		ug/kg	50	17.
Styrene	ND		ug/kg	100	20.
Dichlorodifluoromethane	ND		ug/kg	500	25.
Acetone	120	J	ug/kg	500	110
Carbon disulfide	380	J	ug/kg	500	55.
2-Butanone	ND		ug/kg	500	34.
4-Methyl-2-pentanone	ND		ug/kg	500	12.
2-Hexanone	ND		ug/kg	500	33.
Bromochloromethane	ND		ug/kg	250	18.
1,2-Dibromoethane	ND		ug/kg	200	10.
n-Butylbenzene	ND		ug/kg	50	11.
sec-Butylbenzene	ND		ug/kg	50	11.
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	20.
Isopropylbenzene	ND		ug/kg	50	9.7
p-Isopropyltoluene	ND		ug/kg	50	10.
Naphthalene	ND		ug/kg	250	6.9
n-Propylbenzene	ND		ug/kg	50	11.
1,2,3-Trichlorobenzene	ND		ug/kg	250	12.
1,2,4-Trichlorobenzene	ND		ug/kg	250	11.
1,3,5-Trimethylbenzene	ND		ug/kg	250	8.0
1,2,4-Trimethylbenzene	ND		ug/kg	250	9.3
Methyl Acetate	ND		ug/kg	1000	23.
Cyclohexane	ND		ug/kg	1000	22.
1,4-Dioxane	ND		ug/kg	2000	720
Freon-113	ND		ug/kg	1000	26.

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/15/17 10:52
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 20,22,24 Batch: WG1023111-5					
Methyl cyclohexane	ND		ug/kg	200	12.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	107		70-130

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/16/17 09:44
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,03-04,06,08,10,12,14,16,18 Batch: WG1023156-5					
Methylene chloride	ND		ug/kg	500	82.
1,1-Dichloroethane	ND		ug/kg	75	14.
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	17.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	8.8
1,1,2-Trichloroethane	ND		ug/kg	75	16.
Tetrachloroethene	ND		ug/kg	50	15.
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	21.
1,2-Dichloroethane	ND		ug/kg	50	12.
1,1,1-Trichloroethane	ND		ug/kg	50	18.
Bromodichloromethane	ND		ug/kg	50	15.
trans-1,3-Dichloropropene	ND		ug/kg	50	10.
cis-1,3-Dichloropropene	ND		ug/kg	50	12.
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	15.
Benzene	ND		ug/kg	50	9.6
Toluene	ND		ug/kg	75	9.8
Ethylbenzene	ND		ug/kg	50	8.5
Chloromethane	ND		ug/kg	250	22.
Bromomethane	37	J	ug/kg	100	17.
Vinyl chloride	ND		ug/kg	100	16.
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	19.
trans-1,2-Dichloroethene	ND		ug/kg	75	12.
Trichloroethene	ND		ug/kg	50	15.
1,2-Dichlorobenzene	ND		ug/kg	250	9.1
1,3-Dichlorobenzene	ND		ug/kg	250	11.

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/16/17 09:44
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,03-04,06,08,10,12,14,16,18 Batch: WG1023156-5					
1,4-Dichlorobenzene	ND		ug/kg	250	9.1
Methyl tert butyl ether	ND		ug/kg	100	7.6
p/m-Xylene	ND		ug/kg	100	18.
o-Xylene	ND		ug/kg	100	17.
cis-1,2-Dichloroethene	ND		ug/kg	50	17.
Styrene	ND		ug/kg	100	20.
Dichlorodifluoromethane	ND		ug/kg	500	25.
Acetone	110	J	ug/kg	500	110
Carbon disulfide	120	J	ug/kg	500	55.
2-Butanone	ND		ug/kg	500	34.
4-Methyl-2-pentanone	ND		ug/kg	500	12.
2-Hexanone	ND		ug/kg	500	33.
Bromochloromethane	ND		ug/kg	250	18.
1,2-Dibromoethane	ND		ug/kg	200	10.
n-Butylbenzene	ND		ug/kg	50	11.
sec-Butylbenzene	ND		ug/kg	50	11.
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	20.
Isopropylbenzene	ND		ug/kg	50	9.7
p-Isopropyltoluene	ND		ug/kg	50	10.
Naphthalene	ND		ug/kg	250	6.9
n-Propylbenzene	ND		ug/kg	50	11.
1,2,3-Trichlorobenzene	ND		ug/kg	250	12.
1,2,4-Trichlorobenzene	ND		ug/kg	250	11.
1,3,5-Trimethylbenzene	ND		ug/kg	250	8.0
1,2,4-Trimethylbenzene	ND		ug/kg	250	9.3
Methyl Acetate	ND		ug/kg	1000	23.
Cyclohexane	ND		ug/kg	1000	22.
1,4-Dioxane	ND		ug/kg	2000	720
Freon-113	ND		ug/kg	1000	26.

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/16/17 09:44
Analyst: CBN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,03-04,06,08,10,12,14,16,18 Batch: WG1023156-5					
Methyl cyclohexane	ND		ug/kg	200	12.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	99		70-130

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/15/17 09:02
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 25 Batch: WG1023200-5					
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
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
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/15/17 09:02
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 25 Batch: WG1023200-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
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
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
1,2-Dibromoethane	ND		ug/l	2.0	0.65
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	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
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/15/17 09:02
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 25 Batch: WG1023200-5					
Methyl cyclohexane	ND		ug/l	10	0.40

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	107		70-130

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/17/17 22:05
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 26 Batch: WG1023473-5					
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
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
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/17/17 22:05
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 26 Batch: WG1023473-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
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
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
1,2-Dibromoethane	ND		ug/l	2.0	0.65
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	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
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 07/17/17 22:05
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 26 Batch: WG1023473-5					
Methyl cyclohexane	ND		ug/l	10	0.40

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	111		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS

Project Number: 56831.10

Lab Number: L1723613

Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 20,22,24 Batch: WG1023111-3 WG1023111-4								
Methylene chloride	112		113		70-130	1		30
1,1-Dichloroethane	118		116		70-130	2		30
Chloroform	117		115		70-130	2		30
Carbon tetrachloride	113		113		70-130	0		30
1,2-Dichloropropane	114		112		70-130	2		30
Dibromochloromethane	100		97		70-130	3		30
1,1,2-Trichloroethane	103		100		70-130	3		30
Tetrachloroethene	101		98		70-130	3		30
Chlorobenzene	101		99		70-130	2		30
Trichlorofluoromethane	120		117		70-139	3		30
1,2-Dichloroethane	116		116		70-130	0		30
1,1,1-Trichloroethane	117		115		70-130	2		30
Bromodichloromethane	112		112		70-130	0		30
trans-1,3-Dichloropropene	102		99		70-130	3		30
cis-1,3-Dichloropropene	109		109		70-130	0		30
Bromoform	99		94		70-130	5		30
1,1,2,2-Tetrachloroethane	97		95		70-130	2		30
Benzene	114		112		70-130	2		30
Toluene	105		98		70-130	7		30
Ethylbenzene	104		100		70-130	4		30
Chloromethane	120		119		52-130	1		30
Bromomethane	113		113		57-147	0		30
Vinyl chloride	116		117		67-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS

Project Number: 56831.10

Lab Number: L1723613

Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 20,22,24 Batch: WG1023111-3 WG1023111-4								
Chloroethane	127		123		50-151	3		30
1,1-Dichloroethene	112		112		65-135	0		30
trans-1,2-Dichloroethene	112		110		70-130	2		30
Trichloroethene	116		111		70-130	4		30
1,2-Dichlorobenzene	95		97		70-130	2		30
1,3-Dichlorobenzene	97		94		70-130	3		30
1,4-Dichlorobenzene	95		93		70-130	2		30
Methyl tert butyl ether	107		109		66-130	2		30
p/m-Xylene	105		100		70-130	5		30
o-Xylene	102		98		70-130	4		30
cis-1,2-Dichloroethene	109		109		70-130	0		30
Styrene	105		99		70-130	6		30
Dichlorodifluoromethane	120		120		30-146	0		30
Acetone	115		113		54-140	2		30
Carbon disulfide	**137**	Q	**159**	Q	59-130	15		30
2-Butanone	116		109		70-130	6		30
4-Methyl-2-pentanone	92		90		70-130	2		30
2-Hexanone	98		96		70-130	2		30
Bromochloromethane	111		112		70-130	1		30
1,2-Dibromoethane	100		100		70-130	0		30
n-Butylbenzene	103		100		70-130	3		30
sec-Butylbenzene	101		100		70-130	1		30
1,2-Dibromo-3-chloropropane	90		94		68-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS

Project Number: 56831.10

Lab Number: L1723613

Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 20,22,24 Batch: WG1023111-3 WG1023111-4								
Isopropylbenzene	100		96		70-130	4		30
p-Isopropyltoluene	100		98		70-130	2		30
Naphthalene	88		87		70-130	1		30
n-Propylbenzene	103		98		70-130	5		30
1,2,3-Trichlorobenzene	90		89		70-130	1		30
1,2,4-Trichlorobenzene	93		89		70-130	4		30
1,3,5-Trimethylbenzene	101		98		70-130	3		30
1,2,4-Trimethylbenzene	101		98		70-130	3		30
Methyl Acetate	117		114		51-146	3		30
Cyclohexane	117		115		59-142	2		30
1,4-Dioxane	92		103		65-136	11		30
Freon-113	116		115		50-139	1		30
Methyl cyclohexane	112		110		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	108		106		70-130
Toluene-d8	99		95		70-130
4-Bromofluorobenzene	101		98		70-130
Dibromofluoromethane	103		104		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS

Project Number: 56831.10

Lab Number: L1723613

Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,03-04,06,08,10,12,14,16,18 Batch: WG1023156-3 WG1023156-4								
Methylene chloride	81		90		70-130	11		30
1,1-Dichloroethane	83		95		70-130	13		30
Chloroform	85		95		70-130	11		30
Carbon tetrachloride	93		104		70-130	11		30
1,2-Dichloropropane	91		98		70-130	7		30
Dibromochloromethane	91		98		70-130	7		30
1,1,2-Trichloroethane	92		99		70-130	7		30
Tetrachloroethene	93		99		70-130	6		30
Chlorobenzene	90		97		70-130	7		30
Trichlorofluoromethane	85		94		70-139	10		30
1,2-Dichloroethane	90		99		70-130	10		30
1,1,1-Trichloroethane	90		99		70-130	10		30
Bromodichloromethane	92		100		70-130	8		30
trans-1,3-Dichloropropene	96		102		70-130	6		30
cis-1,3-Dichloropropene	86		92		70-130	7		30
Bromoform	93		97		70-130	4		30
1,1,2,2-Tetrachloroethane	93		98		70-130	5		30
Benzene	84		95		70-130	12		30
Toluene	93		99		70-130	6		30
Ethylbenzene	92		100		70-130	8		30
Chloromethane	81		88		52-130	8		30
Bromomethane	87		88		57-147	1		30
Vinyl chloride	88		99		67-130	12		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10

Lab Number: L1723613
Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,03-04,06,08,10,12,14,16,18 Batch: WG1023156-3 WG1023156-4								
Chloroethane	83		87		50-151	5		30
1,1-Dichloroethene	72		77		65-135	7		30
trans-1,2-Dichloroethene	80		91		70-130	13		30
Trichloroethene	90		98		70-130	9		30
1,2-Dichlorobenzene	93		98		70-130	5		30
1,3-Dichlorobenzene	94		100		70-130	6		30
1,4-Dichlorobenzene	90		99		70-130	10		30
Methyl tert butyl ether	69		**62**	Q	66-130	11		30
p/m-Xylene	91		98		70-130	7		30
o-Xylene	90		97		70-130	7		30
cis-1,2-Dichloroethene	85		92		70-130	8		30
Styrene	90		98		70-130	9		30
Dichlorodifluoromethane	83		92		30-146	10		30
Acetone	95		100		54-140	5		30
Carbon disulfide	64		62		59-130	3		30
2-Butanone	84		87		70-130	4		30
4-Methyl-2-pentanone	98		103		70-130	5		30
2-Hexanone	97		102		70-130	5		30
Bromochloromethane	86		90		70-130	5		30
1,2-Dibromoethane	93		99		70-130	6		30
n-Butylbenzene	97		103		70-130	6		30
sec-Butylbenzene	95		103		70-130	8		30
1,2-Dibromo-3-chloropropane	90		92		68-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS

Project Number: 56831.10

Lab Number: L1723613

Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,03-04,06,08,10,12,14,16,18 Batch: WG1023156-3 WG1023156-4								
Isopropylbenzene	96		103		70-130	7		30
p-Isopropyltoluene	96		104		70-130	8		30
Naphthalene	91		94		70-130	3		30
n-Propylbenzene	96		104		70-130	8		30
1,2,3-Trichlorobenzene	93		98		70-130	5		30
1,2,4-Trichlorobenzene	91		97		70-130	6		30
1,3,5-Trimethylbenzene	95		105		70-130	10		30
1,2,4-Trimethylbenzene	96		104		70-130	8		30
Methyl Acetate	86		96		51-146	11		30
Cyclohexane	91		105		59-142	14		30
1,4-Dioxane	104		103		65-136	1		30
Freon-113	85		87		50-139	2		30
Methyl cyclohexane	91		100		70-130	9		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		106		70-130
Toluene-d8	108		108		70-130
4-Bromofluorobenzene	107		106		70-130
Dibromofluoromethane	98		100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS

Project Number: 56831.10

Lab Number: L1723613

Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 25 Batch: WG1023200-3 WG1023200-4								
Methylene chloride	96		100		70-130	4		20
1,1-Dichloroethane	93		99		70-130	6		20
Chloroform	98		100		70-130	2		20
Carbon tetrachloride	96		100		63-132	4		20
1,2-Dichloropropane	93		100		70-130	7		20
Dibromochloromethane	97		110		63-130	13		20
1,1,2-Trichloroethane	98		110		70-130	12		20
Tetrachloroethene	98		100		70-130	2		20
Chlorobenzene	93		99		75-130	6		20
Trichlorofluoromethane	92		96		62-150	4		20
1,2-Dichloroethane	100		110		70-130	10		20
1,1,1-Trichloroethane	95		100		67-130	5		20
Bromodichloromethane	99		100		67-130	1		20
trans-1,3-Dichloropropene	85		92		70-130	8		20
cis-1,3-Dichloropropene	87		92		70-130	6		20
Bromoform	82		88		54-136	7		20
1,1,2,2-Tetrachloroethane	90		98		67-130	9		20
Benzene	99		100		70-130	1		20
Toluene	91		97		70-130	6		20
Ethylbenzene	93		97		70-130	4		20
Chloromethane	87		89		64-130	2		20
Bromomethane	82		95		39-139	15		20
Vinyl chloride	93		94		55-140	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS

Project Number: 56831.10

Lab Number: L1723613

Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 25 Batch: WG1023200-3 WG1023200-4								
Chloroethane	96		100		55-138	4		20
1,1-Dichloroethene	98		96		61-145	2		20
trans-1,2-Dichloroethene	92		96		70-130	4		20
Trichloroethene	96		100		70-130	4		20
1,2-Dichlorobenzene	92		98		70-130	6		20
1,3-Dichlorobenzene	92		97		70-130	5		20
1,4-Dichlorobenzene	91		95		70-130	4		20
Methyl tert butyl ether	100		110		63-130	10		20
p/m-Xylene	95		100		70-130	5		20
o-Xylene	90		95		70-130	5		20
cis-1,2-Dichloroethene	97		100		70-130	3		20
Styrene	95		100		70-130	5		20
Dichlorodifluoromethane	72		74		36-147	3		20
Acetone	**160**	Q	90		58-148	**56**	Q	20
Carbon disulfide	96		91		51-130	5		20
2-Butanone	96		93		63-138	3		20
4-Methyl-2-pentanone	67		75		59-130	11		20
2-Hexanone	65		69		57-130	6		20
Bromochloromethane	100		110		70-130	10		20
1,2-Dibromoethane	99		110		70-130	11		20
n-Butylbenzene	91		93		53-136	2		20
sec-Butylbenzene	90		93		70-130	3		20
1,2-Dibromo-3-chloropropane	88		94		41-144	7		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS

Project Number: 56831.10

Lab Number: L1723613

Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 25 Batch: WG1023200-3 WG1023200-4								
Isopropylbenzene	90		92		70-130	2		20
p-Isopropyltoluene	84		86		70-130	2		20
Naphthalene	88		89		70-130	1		20
n-Propylbenzene	89		92		69-130	3		20
1,2,3-Trichlorobenzene	100		110		70-130	10		20
1,2,4-Trichlorobenzene	85		88		70-130	3		20
1,3,5-Trimethylbenzene	90		95		64-130	5		20
1,2,4-Trimethylbenzene	86		88		70-130	2		20
Methyl Acetate	91		100		70-130	9		20
Cyclohexane	86		89		70-130	3		20
1,4-Dioxane	118		122		56-162	3		20
Freon-113	88		87		70-130	1		20
Methyl cyclohexane	86		90		70-130	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	112		114		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	97		94		70-130
Dibromofluoromethane	105		107		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10

Lab Number: L1723613
Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 26 Batch: WG1023473-3 WG1023473-4								
Methylene chloride	99		97		70-130	2		20
1,1-Dichloroethane	98		95		70-130	3		20
Chloroform	110		100		70-130	10		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	94		93		70-130	1		20
Dibromochloromethane	100		100		63-130	0		20
1,1,2-Trichloroethane	91		91		70-130	0		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	97		94		75-130	3		20
Trichlorofluoromethane	110		100		62-150	10		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	110		100		67-130	10		20
trans-1,3-Dichloropropene	91		88		70-130	3		20
cis-1,3-Dichloropropene	100		100		70-130	0		20
Bromoform	96		96		54-136	0		20
1,1,2,2-Tetrachloroethane	85		84		67-130	1		20
Benzene	97		94		70-130	3		20
Toluene	94		91		70-130	3		20
Ethylbenzene	94		92		70-130	2		20
Chloromethane	85		84		64-130	1		20
Bromomethane	93		94		39-139	1		20
Vinyl chloride	88		86		55-140	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS

Project Number: 56831.10

Lab Number: L1723613

Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 26 Batch: WG1023473-3 WG1023473-4								
Chloroethane	94		93		55-138	1		20
1,1-Dichloroethene	99		95		61-145	4		20
trans-1,2-Dichloroethene	100		99		70-130	1		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	95		92		70-130	3		20
1,3-Dichlorobenzene	96		92		70-130	4		20
1,4-Dichlorobenzene	95		90		70-130	5		20
Methyl tert butyl ether	100		100		63-130	0		20
p/m-Xylene	100		95		70-130	5		20
o-Xylene	100		95		70-130	5		20
cis-1,2-Dichloroethene	100		100		70-130	0		20
Styrene	100		95		70-130	5		20
Dichlorodifluoromethane	89		87		36-147	2		20
Acetone	110		110		58-148	0		20
Carbon disulfide	93		90		51-130	3		20
2-Butanone	82		85		63-138	4		20
4-Methyl-2-pentanone	83		79		59-130	5		20
2-Hexanone	76		76		57-130	0		20
Bromochloromethane	110		110		70-130	0		20
1,2-Dibromoethane	100		100		70-130	0		20
n-Butylbenzene	87		84		53-136	4		20
sec-Butylbenzene	89		85		70-130	5		20
1,2-Dibromo-3-chloropropane	84		84		41-144	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS

Project Number: 56831.10

Lab Number: L1723613

Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 26 Batch: WG1023473-3 WG1023473-4								
Isopropylbenzene	92		87		70-130	6		20
p-Isopropyltoluene	93		90		70-130	3		20
Naphthalene	83		89		70-130	7		20
n-Propylbenzene	88		84		69-130	5		20
1,2,3-Trichlorobenzene	86		95		70-130	10		20
1,2,4-Trichlorobenzene	90		92		70-130	2		20
1,3,5-Trimethylbenzene	92		89		64-130	3		20
1,2,4-Trimethylbenzene	94		90		70-130	4		20
Methyl Acetate	88		79		70-130	11		20
Cyclohexane	85		82		70-130	4		20
1,4-Dioxane	106		112		56-162	6		20
Freon-113	97		94		70-130	3		20
Methyl cyclohexane	90		86		70-130	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	111		110		70-130
Toluene-d8	97		96		70-130
4-Bromofluorobenzene	95		94		70-130
Dibromofluoromethane	110		111		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,03-04,06,08,10,12,14,16,18 QC Batch ID: WG1023156-6 WG1023156-7 QC Sample: L1723613-04 Client ID: SP-3-2-071117												
Methylene chloride	ND	1200	920	76		950	79		70-130	4		30
1,1-Dichloroethane	ND	1200	900	75		950	79		70-130	6		30
Chloroform	ND	1200	930	78		1000	83		70-130	7		30
Carbon tetrachloride	ND	1200	840	70		940	78		70-130	11		30
1,2-Dichloropropane	ND	1200	1000	84		1000	87		70-130	3		30
Dibromochloromethane	ND	1200	1000	86		1100	88		70-130	3		30
1,1,2-Trichloroethane	ND	1200	1100	90		1100	92		70-130	3		30
Tetrachloroethene	ND	1200	850	71		920	77		70-130	8		30
Chlorobenzene	ND	1200	970	81		1000	84		70-130	4		30
Trichlorofluoromethane	ND	1200	270J	**22**	Q	300	**25**	Q	70-139	12		30
1,2-Dichloroethane	ND	1200	1100	88		1100	92		70-130	4		30
1,1,1-Trichloroethane	ND	1200	860	71		950	79		70-130	11		30
Bromodichloromethane	ND	1200	1000	83		1100	88		70-130	5		30
trans-1,3-Dichloropropene	ND	1200	1100	88		1100	91		70-130	3		30
cis-1,3-Dichloropropene	ND	1200	960	80		1000	84		70-130	5		30
Bromoform	ND	1200	990	82		1100	88		70-130	6		30
1,1,2,2-Tetrachloroethane	ND	1200	1000	87		1100	88		70-130	2		30
Benzene	ND	1200	900	75		960	80		70-130	7		30
Toluene	ND	1200	950	79		990	82		70-130	4		30
Ethylbenzene	ND	1200	940	78		990	82		70-130	5		30
Chloromethane	ND	1200	900	75		970	81		52-130	8		30
Bromomethane	26.J	1200	880	74		900	75		57-147	2		30
Vinyl chloride	ND	1200	850	71		960	80		67-130	11		30

Matrix Spike Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,03-04,06,08,10,12,14,16,18 QC Batch ID: WG1023156-6 WG1023156-7 QC Sample: L1723613-04 Client ID: SP-3-2-071117												
Chloroethane	ND	1200	330	**27**	Q	370	**31**	Q	50-151	13		30
1,1-Dichloroethene	ND	1200	740	**62**	Q	750	**62**	Q	65-135	0		30
trans-1,2-Dichloroethene	ND	1200	800	**66**	Q	880	73		70-130	9		30
Trichloroethene	ND	1200	890	74		990	82		70-130	10		30
1,2-Dichlorobenzene	ND	1200	1100	88		1000	87		70-130	1		30
1,3-Dichlorobenzene	ND	1200	980	82		1000	87		70-130	6		30
1,4-Dichlorobenzene	ND	1200	1000	84		1000	85		70-130	1		30
Methyl tert butyl ether	ND	1200	590	**49**	Q	690	**57**	Q	66-130	15		30
p/m-Xylene	ND	2300	1900	80		2000	85		70-130	5		30
o-Xylene	ND	2300	1900	83		2000	86		70-130	4		30
cis-1,2-Dichloroethene	ND	1200	900	75		950	80		70-130	6		30
Styrene	ND	2300	2000	85		2000	87		70-130	3		30
Dichlorodifluoromethane	ND	1200	770	64		850	71		30-146	11		30
Acetone	ND	1200	1200	103		1400	113		54-140	9		30
Carbon disulfide	ND	1200	600	**50**	Q	670	**56**	Q	59-130	11		30
2-Butanone	ND	1200	1100	88		1200	98		70-130	10		30
4-Methyl-2-pentanone	ND	1200	1100	90		1100	91		70-130	1		30
2-Hexanone	ND	1200	1000	86		1100	94		70-130	9		30
Bromochloromethane	ND	1200	950	79		990	83		70-130	4		30
1,2-Dibromoethane	ND	1200	1100	88		1100	92		70-130	4		30
n-Butylbenzene	ND	1200	920	76		950	79		70-130	3		30
sec-Butylbenzene	ND	1200	910	75		970	81		70-130	7		30
1,2-Dibromo-3-chloropropane	ND	1200	990	82		1000	84		68-130	2		30

Matrix Spike Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10

Lab Number: L1723613
Report Date: 07/19/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,03-04,06,08,10,12,14,16,18 QC Batch ID: WG1023156-6 WG1023156-7 QC Sample: L1723613-04 Client ID: SP-3-2-071117												
Isopropylbenzene	ND	1200	920	76		990	82		70-130	7		30
p-Isopropyltoluene	ND	1200	930	77		990	82		70-130	6		30
Naphthalene	ND	1200	1000	87		1100	90		70-130	4		30
n-Propylbenzene	ND	1200	930	77		1000	83		70-130	7		30
1,2,3-Trichlorobenzene	ND	1200	1000	85		1100	88		70-130	3		30
1,2,4-Trichlorobenzene	ND	1200	990	83		1000	86		70-130	4		30
1,3,5-Trimethylbenzene	ND	1200	970	81		1000	84		70-130	4		30
1,2,4-Trimethylbenzene	ND	1200	990	82		1000	85		70-130	3		30
Methyl Acetate	140J	1200	1400	118		1500	125		51-146	6		30
Cyclohexane	ND	1200	820J	69		960J	80		59-142	15		30
1,4-Dioxane	ND	58000	61000	105		61000	105		65-136	0		30
Freon-113	ND	1200	760J	64		880J	74		50-139	15		30
Methyl cyclohexane	ND	1200	800	**66**	Q	920	76		70-130	14		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		109		70-130
4-Bromofluorobenzene	104		104		70-130
Dibromofluoromethane	101		103		70-130
Toluene-d8	106		108		70-130

SEMIVOLATILES

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-02
Client ID: SP-1-0.5-8-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/17/17 16:18
Analyst: RC
Percent Solids: 82%

Date Collected: 07/11/17 09:40
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 08:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Fluoranthene	78	J	ug/kg	120	23.	1
Naphthalene	ND		ug/kg	200	24.	1
Benzo(a)anthracene	32	J	ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	49.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	30	J	ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	60	J	ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	65	J	ug/kg	120	20.	1
Dibenzofuran	ND		ug/kg	200	19.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	31.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-02 Date Collected: 07/11/17 09:40

Client ID: SP-1-0.5-8-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	108		10-136
4-Terphenyl-d14	66		18-120

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-03
Client ID: SP-2-3.5-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/17/17 16:44
Analyst: RC
Percent Solids: 76%

Date Collected: 07/11/17 10:10
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 08:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Fluoranthene	ND		ug/kg	130	25.	1
Naphthalene	ND		ug/kg	210	26.	1
Benzo(a)anthracene	ND		ug/kg	130	24.	1
Benzo(a)pyrene	ND		ug/kg	170	52.	1
Benzo(b)fluoranthene	ND		ug/kg	130	36.	1
Benzo(k)fluoranthene	ND		ug/kg	130	34.	1
Chrysene	ND		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	42.	1
Benzo(ghi)perylene	ND		ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	21.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	22	J	ug/kg	130	21.	1
Dibenzofuran	ND		ug/kg	210	20.	1
Pentachlorophenol	ND		ug/kg	170	47.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	34.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-03 Date Collected: 07/11/17 10:10

Client ID: SP-2-3.5-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		25-120
Phenol-d6	60		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	60		30-120
2,4,6-Tribromophenol	94		10-136
4-Terphenyl-d14	61		18-120

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-05
Client ID: SP-3-1-8-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/17/17 15:52
Analyst: RC
Percent Solids: 81%

Date Collected: 07/11/17 10:30
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 08:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Fluoranthene	160		ug/kg	120	23.	1
Naphthalene	ND		ug/kg	200	25.	1
Benzo(a)anthracene	80	J	ug/kg	120	23.	1
Benzo(a)pyrene	69	J	ug/kg	160	50.	1
Benzo(b)fluoranthene	81	J	ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	70	J	ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	34	J	ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	93	J	ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	37	J	ug/kg	160	28.	1
Pyrene	140		ug/kg	120	20.	1
Dibenzofuran	ND		ug/kg	200	19.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	32.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-05 Date Collected: 07/11/17 10:30

Client ID: SP-3-1-8-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		25-120
Phenol-d6	50		10-120
Nitrobenzene-d5	48		23-120
2-Fluorobiphenyl	54		30-120
2,4,6-Tribromophenol	99		10-136
4-Terphenyl-d14	64		18-120

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-07
Client ID: SP-5-1-8-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/17/17 17:10
Analyst: RC
Percent Solids: 78%

Date Collected: 07/11/17 11:15
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 08:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Fluoranthene	73	J	ug/kg	120	24.	1
Naphthalene	26	J	ug/kg	210	25.	1
Benzo(a)anthracene	35	J	ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1
Benzo(b)fluoranthene	40	J	ug/kg	120	35.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	37	J	ug/kg	120	22.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	64	J	ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	29.	1
Pyrene	61	J	ug/kg	120	20.	1
Dibenzofuran	ND		ug/kg	210	20.	1
Pentachlorophenol	ND		ug/kg	160	46.	1
Phenol	ND		ug/kg	210	31.	1
2-Methylphenol	ND		ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	32.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-07 Date Collected: 07/11/17 11:15

Client ID: SP-5-1-8-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	88		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	107		10-136
4-Terphenyl-d14	67		18-120

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-09
Client ID: SP-6-0-1-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/17/17 17:36
Analyst: RC
Percent Solids: 87%

Date Collected: 07/11/17 11:40
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 08:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	340		ug/kg	150	20.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Fluoranthene	5200		ug/kg	120	22.	1
Naphthalene	110	J	ug/kg	190	23.	1
Benzo(a)anthracene	2300		ug/kg	120	22.	1
Benzo(a)pyrene	2100		ug/kg	150	47.	1
Benzo(b)fluoranthene	3100		ug/kg	120	32.	1
Benzo(k)fluoranthene	950		ug/kg	120	31.	1
Chrysene	2400		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	600		ug/kg	120	37.	1
Benzo(ghi)perylene	1300		ug/kg	150	22.	1
Fluorene	250		ug/kg	190	19.	1
Phenanthrene	3200		ug/kg	120	23.	1
Dibenzo(a,h)anthracene	350		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	1400		ug/kg	150	27.	1
Pyrene	4200		ug/kg	120	19.	1
Dibenzofuran	170	J	ug/kg	190	18.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-09 Date Collected: 07/11/17 11:40

Client ID: SP-6-0-1-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	84		10-136
4-Terphenyl-d14	71		18-120

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-11
Client ID: SP-7-4-8-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/17/17 18:02
Analyst: RC
Percent Solids: 84%

Date Collected: 07/11/17 12:30
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 08:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Fluoranthene	35	J	ug/kg	120	23.	1
Naphthalene	ND		ug/kg	200	24.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	37	J	ug/kg	120	20.	1
Dibenzofuran	ND		ug/kg	200	19.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-11 Date Collected: 07/11/17 12:30

Client ID: SP-7-4-8-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	57		18-120

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-13
Client ID: SP-8-0-1-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/17/17 18:28
Analyst: RC
Percent Solids: 91%

Date Collected: 07/11/17 13:00
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 08:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Fluoranthene	240		ug/kg	110	20.	1
Naphthalene	ND		ug/kg	180	22.	1
Benzo(a)anthracene	120		ug/kg	110	20.	1
Benzo(a)pyrene	120	J	ug/kg	140	44.	1
Benzo(b)fluoranthene	180		ug/kg	110	30.	1
Benzo(k)fluoranthene	66	J	ug/kg	110	29.	1
Chrysene	130		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	110	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	120		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	24	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	86	J	ug/kg	140	25.	1
Pyrene	230		ug/kg	110	18.	1
Dibenzofuran	ND		ug/kg	180	17.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-13 Date Collected: 07/11/17 13:00

Client ID: SP-8-0-1-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	37		25-120
Phenol-d6	51		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	56		30-120
2,4,6-Tribromophenol	25		10-136
4-Terphenyl-d14	51		18-120

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-15
Client ID: SP-9-0-13-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/17/17 18:54
Analyst: RC
Percent Solids: 85%

Date Collected: 07/11/17 13:20
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 08:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	38	J	ug/kg	150	20.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Fluoranthene	960		ug/kg	110	22.	1
Naphthalene	150	J	ug/kg	190	23.	1
Benzo(a)anthracene	490		ug/kg	110	21.	1
Benzo(a)pyrene	390		ug/kg	150	46.	1
Benzo(b)fluoranthene	510		ug/kg	110	32.	1
Benzo(k)fluoranthene	180		ug/kg	110	30.	1
Chrysene	530		ug/kg	110	20.	1
Acenaphthylene	50	J	ug/kg	150	29.	1
Anthracene	110		ug/kg	110	37.	1
Benzo(ghi)perylene	290		ug/kg	150	22.	1
Fluorene	54	J	ug/kg	190	18.	1
Phenanthrene	630		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	79	J	ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	270		ug/kg	150	26.	1
Pyrene	1000		ug/kg	110	19.	1
Dibenzofuran	87	J	ug/kg	190	18.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-15 Date Collected: 07/11/17 13:20

Client ID: SP-9-0-13-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	45		25-120
Phenol-d6	50		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	60		30-120
2,4,6-Tribromophenol	60		10-136
4-Terphenyl-d14	51		18-120

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-17
Client ID: SP-10-0-4.5-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/17/17 19:20
Analyst: RC
Percent Solids: 92%

Date Collected: 07/11/17 13:50
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 08:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	280		ug/kg	140	19.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Fluoranthene	4800		ug/kg	110	21.	1
Naphthalene	810		ug/kg	180	22.	1
Benzo(a)anthracene	2200		ug/kg	110	20.	1
Benzo(a)pyrene	2500		ug/kg	140	44.	1
Benzo(b)fluoranthene	3900		ug/kg	110	30.	1
Benzo(k)fluoranthene	1400		ug/kg	110	29.	1
Chrysene	2700		ug/kg	110	19.	1
Acenaphthylene	390		ug/kg	140	28.	1
Anthracene	740		ug/kg	110	35.	1
Benzo(ghi)perylene	1800		ug/kg	140	21.	1
Fluorene	310		ug/kg	180	18.	1
Phenanthrene	3200		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	440		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	2100		ug/kg	140	25.	1
Pyrene	4000		ug/kg	110	18.	1
Dibenzofuran	420		ug/kg	180	17.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-17 Date Collected: 07/11/17 13:50

Client ID: SP-10-0-4.5-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	47		25-120
Phenol-d6	51		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	60		30-120
2,4,6-Tribromophenol	73		10-136
4-Terphenyl-d14	61		18-120

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-19
Client ID: SP-11-0.5-4.5-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/17/17 19:46
Analyst: RC
Percent Solids: 85%

Date Collected: 07/11/17 14:20
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 08:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Fluoranthene	280		ug/kg	120	22.	1
Naphthalene	540		ug/kg	190	23.	1
Benzo(a)anthracene	190		ug/kg	120	22.	1
Benzo(a)pyrene	150		ug/kg	150	47.	1
Benzo(b)fluoranthene	210		ug/kg	120	32.	1
Benzo(k)fluoranthene	56	J	ug/kg	120	31.	1
Chrysene	270		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	40	J	ug/kg	120	37.	1
Benzo(ghi)perylene	130	J	ug/kg	150	22.	1
Fluorene	33	J	ug/kg	190	19.	1
Phenanthrene	410		ug/kg	120	23.	1
Dibenzo(a,h)anthracene	38	J	ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	110	J	ug/kg	150	27.	1
Pyrene	290		ug/kg	120	19.	1
Dibenzofuran	180	J	ug/kg	190	18.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-19 Date Collected: 07/11/17 14:20

Client ID: SP-11-0.5-4.5-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		25-120
Phenol-d6	62		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	64		18-120

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-21
Client ID: SP-12-0-3-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/17/17 20:12
Analyst: RC
Percent Solids: 77%

Date Collected: 07/11/17 14:45
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 08:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	47	J	ug/kg	170	22.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Fluoranthene	830		ug/kg	130	24.	1
Naphthalene	510		ug/kg	210	26.	1
Benzo(a)anthracene	390		ug/kg	130	24.	1
Benzo(a)pyrene	350		ug/kg	170	52.	1
Benzo(b)fluoranthene	520		ug/kg	130	36.	1
Benzo(k)fluoranthene	160		ug/kg	130	34.	1
Chrysene	440		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	110	J	ug/kg	130	42.	1
Benzo(ghi)perylene	190		ug/kg	170	25.	1
Fluorene	63	J	ug/kg	210	21.	1
Phenanthrene	820		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	60	J	ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	210		ug/kg	170	30.	1
Pyrene	690		ug/kg	130	21.	1
Dibenzofuran	200	J	ug/kg	210	20.	1
Pentachlorophenol	ND		ug/kg	170	47.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	33.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-21 Date Collected: 07/11/17 14:45

Client ID: SP-12-0-3-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		25-120
Phenol-d6	57		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	49		18-120

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-23
Client ID: SP-13-0-4.5-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/17/17 20:37
Analyst: RC
Percent Solids: 77%

Date Collected: 07/11/17 15:15
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 08:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Fluoranthene	240		ug/kg	130	24.	1
Naphthalene	110	J	ug/kg	210	26.	1
Benzo(a)anthracene	280		ug/kg	130	24.	1
Benzo(a)pyrene	100	J	ug/kg	170	52.	1
Benzo(b)fluoranthene	120	J	ug/kg	130	36.	1
Benzo(k)fluoranthene	35	J	ug/kg	130	34.	1
Chrysene	260		ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	140		ug/kg	130	42.	1
Benzo(ghi)perylene	63	J	ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	21.	1
Phenanthrene	150		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	55	J	ug/kg	170	30.	1
Pyrene	700		ug/kg	130	21.	1
Dibenzofuran	ND		ug/kg	210	20.	1
Pentachlorophenol	ND		ug/kg	170	47.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	140	J	ug/kg	310	34.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-23 Date Collected: 07/11/17 15:15

Client ID: SP-13-0-4.5-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		25-120
Phenol-d6	66		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	53		10-136
4-Terphenyl-d14	66		18-120

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-25
Client ID: SP-9-GW-071117
Sample Location: BUFFALO, NY

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/18/17 05:59
Analyst: RC

Date Collected: 07/11/17 15:30
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 07/14/17 04:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	1.9	0.63	1
Phenol	ND		ug/l	4.8	1.8	1
2-Methylphenol	ND		ug/l	4.8	0.98	1
3-Methylphenol/4-Methylphenol	ND		ug/l	4.8	1.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	30		21-120
Phenol-d6	23		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	54		15-120
2,4,6-Tribromophenol	60		10-120
4-Terphenyl-d14	48		41-149

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-25
Client ID: SP-9-GW-071117
Sample Location: BUFFALO, NY

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 07/15/17 15:57
Analyst: KL

Date Collected: 07/11/17 15:30
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 07/14/17 04:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.03	1
Fluoranthene	0.93		ug/l	0.10	0.04	1
Naphthalene	0.10		ug/l	0.10	0.04	1
Benzo(a)anthracene	0.52		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.59		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	0.86		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	0.29		ug/l	0.10	0.04	1
Chrysene	0.63		ug/l	0.10	0.04	1
Acenaphthylene	0.07	J	ug/l	0.10	0.03	1
Anthracene	0.10		ug/l	0.10	0.03	1
Benzo(ghi)perylene	0.55		ug/l	0.10	0.04	1
Fluorene	0.04	J	ug/l	0.10	0.04	1
Phenanthrene	0.41		ug/l	0.10	0.01	1
Dibenzo(a,h)anthracene	0.11		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	0.53		ug/l	0.10	0.04	1
Pyrene	0.90		ug/l	0.10	0.04	1
Pentachlorophenol	ND		ug/l	0.77	0.21	1
Hexachlorobenzene	ND		ug/l	0.77	0.03	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	64		15-120
2,4,6-Tribromophenol	64		10-120
4-Terphenyl-d14	53		41-149

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-26 D
Client ID: SP-13-GW-071117
Sample Location: BUFFALO, NY

Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 07/18/17 10:15
Analyst: RC

Date Collected: 07/11/17 15:45
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 07/14/17 04:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	40	13.	10
Phenol	ND		ug/l	100	38.	10
2-Methylphenol	ND		ug/l	100	20.	10
3-Methylphenol/4-Methylphenol	ND		ug/l	100	22.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**19**	Q	21-120
Phenol-d6	15		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	30		15-120
2,4,6-Tribromophenol	34		10-120
4-Terphenyl-d14	**27**	Q	41-149

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-26 D
Client ID: SP-13-GW-071117
Sample Location: BUFFALO, NY

Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 07/17/17 11:01
Analyst: KL

Date Collected: 07/11/17 15:45
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3510C
Extraction Date: 07/14/17 04:18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	20	7.0	100
Fluoranthene	70		ug/l	20	7.6	100
Naphthalene	ND		ug/l	20	8.6	100
Benzo(a)anthracene	120		ug/l	20	3.6	100
Benzo(a)pyrene	36		ug/l	20	7.8	100
Benzo(b)fluoranthene	28		ug/l	20	3.2	100
Benzo(k)fluoranthene	ND		ug/l	20	8.4	100
Chrysene	140		ug/l	20	7.6	100
Acenaphthylene	14	J	ug/l	20	7.0	100
Anthracene	71		ug/l	20	7.0	100
Benzo(ghi)perylene	23		ug/l	20	8.4	100
Fluorene	ND		ug/l	20	7.4	100
Phenanthrene	ND		ug/l	20	3.0	100
Dibenzo(a,h)anthracene	ND		ug/l	20	7.8	100
Indeno(1,2,3-cd)pyrene	9.4	J	ug/l	20	8.0	100
Pyrene	390		ug/l	20	8.0	100
Pentachlorophenol	ND		ug/l	160	44.	100
Hexachlorobenzene	ND		ug/l	160	6.4	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**0**	Q	21-120
Phenol-d6	**0**	Q	10-120
Nitrobenzene-d5	**0**	Q	23-120
2-Fluorobiphenyl	**0**	Q	15-120
2,4,6-Tribromophenol	**0**	Q	10-120
4-Terphenyl-d14	**0**	Q	41-149

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-27
Client ID: SS-1-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/17/17 18:06
Analyst: CB
Percent Solids: 84%

Date Collected: 07/11/17 15:50
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 09:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	920		ug/kg	160	20.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Fluoranthene	7300		ug/kg	120	23.	1
Naphthalene	320		ug/kg	200	24.	1
Benzo(a)anthracene	3600		ug/kg	120	22.	1
Benzo(a)pyrene	2700		ug/kg	160	48.	1
Benzo(b)fluoranthene	3600		ug/kg	120	33.	1
Benzo(k)fluoranthene	1200		ug/kg	120	32.	1
Chrysene	3100		ug/kg	120	20.	1
Acenaphthylene	38	J	ug/kg	160	30.	1
Anthracene	1800		ug/kg	120	38.	1
Benzo(ghi)perylene	1300		ug/kg	160	23.	1
Fluorene	980		ug/kg	200	19.	1
Phenanthrene	6400		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	380		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	1600		ug/kg	160	27.	1
Pyrene	5900		ug/kg	120	20.	1
Dibenzofuran	580		ug/kg	200	19.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-27 Date Collected: 07/11/17 15:50

Client ID: SS-1-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	115		10-136
4-Terphenyl-d14	54		18-120

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-28
Client ID: SS-2-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/18/17 03:51
Analyst: PS
Percent Solids: 84%

Date Collected: 07/11/17 15:55
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 09:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	23	J	ug/kg	160	20.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Fluoranthene	360		ug/kg	120	22.	1
Naphthalene	31	J	ug/kg	200	24.	1
Benzo(a)anthracene	180		ug/kg	120	22.	1
Benzo(a)pyrene	160		ug/kg	160	48.	1
Benzo(b)fluoranthene	230		ug/kg	120	33.	1
Benzo(k)fluoranthene	68	J	ug/kg	120	31.	1
Chrysene	170		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	50	J	ug/kg	120	38.	1
Benzo(ghi)perylene	110	J	ug/kg	160	23.	1
Fluorene	22	J	ug/kg	200	19.	1
Phenanthrene	230		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	32	J	ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	130	J	ug/kg	160	27.	1
Pyrene	290		ug/kg	120	19.	1
Dibenzofuran	20	J	ug/kg	200	18.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-28 Date Collected: 07/11/17 15:55

Client ID: SS-2-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	62		10-136
4-Terphenyl-d14	51		18-120

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-29
Client ID: SS-3-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/18/17 17:25
Analyst: PS
Percent Solids: 91%

Date Collected: 07/11/17 16:00
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 09:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	52	J	ug/kg	140	19.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Fluoranthene	670		ug/kg	110	21.	1
Naphthalene	84	J	ug/kg	180	22.	1
Benzo(a)anthracene	300		ug/kg	110	20.	1
Benzo(a)pyrene	270		ug/kg	140	44.	1
Benzo(b)fluoranthene	370		ug/kg	110	30.	1
Benzo(k)fluoranthene	130		ug/kg	110	29.	1
Chrysene	300		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	97	J	ug/kg	110	35.	1
Benzo(ghi)perylene	170		ug/kg	140	21.	1
Fluorene	42	J	ug/kg	180	17.	1
Phenanthrene	480		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	42	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	170		ug/kg	140	25.	1
Pyrene	530		ug/kg	110	18.	1
Dibenzofuran	31	J	ug/kg	180	17.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-29 Date Collected: 07/11/17 16:00

Client ID: SS-3-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	31		25-120
Phenol-d6	35		10-120
Nitrobenzene-d5	39		23-120
2-Fluorobiphenyl	35		30-120
2,4,6-Tribromophenol	30		10-136
4-Terphenyl-d14	25		18-120

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-30
Client ID: SS-4-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/19/17 04:19
Analyst: CB
Percent Solids: 97%

Date Collected: 07/11/17 16:10
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/18/17 20:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	670		ug/kg	130	17.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Fluoranthene	5800		ug/kg	100	19.	1
Naphthalene	730		ug/kg	170	20.	1
Benzo(a)anthracene	2400		ug/kg	100	19.	1
Benzo(a)pyrene	1500		ug/kg	130	41.	1
Benzo(b)fluoranthene	2400		ug/kg	100	28.	1
Benzo(k)fluoranthene	670		ug/kg	100	27.	1
Chrysene	2400		ug/kg	100	18.	1
Acenaphthylene	26	J	ug/kg	130	26.	1
Anthracene	1100		ug/kg	100	33.	1
Benzo(ghi)perylene	980		ug/kg	130	20.	1
Fluorene	570		ug/kg	170	16.	1
Phenanthrene	6000		ug/kg	100	20.	1
Dibenzo(a,h)anthracene	260		ug/kg	100	19.	1
Indeno(1,2,3-cd)pyrene	1100		ug/kg	130	24.	1
Pyrene	4600		ug/kg	100	17.	1
Dibenzofuran	560		ug/kg	170	16.	1
Pentachlorophenol	ND		ug/kg	130	37.	1
Phenol	ND		ug/kg	170	25.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-30 Date Collected: 07/11/17 16:10

Client ID: SS-4-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	30		25-120
Phenol-d6	30		10-120
Nitrobenzene-d5	38		23-120
2-Fluorobiphenyl	30		30-120
2,4,6-Tribromophenol	24		10-136
4-Terphenyl-d14	28		18-120

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-31
Client ID: SURFACE SOIL DUPLICATE
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 07/18/17 18:18
Analyst: PS
Percent Solids: 93%

Date Collected: 07/11/17 00:00
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 09:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	80	J	ug/kg	140	18.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Fluoranthene	1200		ug/kg	100	20.	1
Naphthalene	160	J	ug/kg	180	21.	1
Benzo(a)anthracene	460		ug/kg	100	20.	1
Benzo(a)pyrene	340		ug/kg	140	43.	1
Benzo(b)fluoranthene	500		ug/kg	100	30.	1
Benzo(k)fluoranthene	170		ug/kg	100	28.	1
Chrysene	460		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	170		ug/kg	100	34.	1
Benzo(ghi)perylene	280		ug/kg	140	21.	1
Fluorene	67	J	ug/kg	180	17.	1
Phenanthrene	800		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	73	J	ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	270		ug/kg	140	25.	1
Pyrene	930		ug/kg	100	18.	1
Dibenzofuran	49	J	ug/kg	180	17.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	28.	1

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-31 Date Collected: 07/11/17 00:00

Client ID: SURFACE SOIL DUPLICATE Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		25-120
Phenol-d6	45		10-120
Nitrobenzene-d5	52		23-120
2-Fluorobiphenyl	47		30-120
2,4,6-Tribromophenol	39		10-136
4-Terphenyl-d14	33		18-120

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/18/17 01:18
Analyst: RC

Extraction Method: EPA 3510C
Extraction Date: 07/14/17 04:18

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 25-26 Batch: WG1022459-1					
Dibenzofuran	ND		ug/l	2.0	0.66
Phenol	ND		ug/l	5.0	1.9
2-Methylphenol	ND		ug/l	5.0	1.0
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/l		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	37		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	81		15-120
2,4,6-Tribromophenol	89		10-120
4-Terphenyl-d14	69		41-149

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 07/15/17 14:38
Analyst: KL

Extraction Method: EPA 3510C
Extraction Date: 07/14/17 04:18

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 25-26 Batch: WG1022460-1					
Acenaphthene	ND		ug/l	0.10	0.04
Fluoranthene	ND		ug/l	0.10	0.04
Naphthalene	ND		ug/l	0.10	0.04
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.04
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04
Chrysene	ND		ug/l	0.10	0.04
Acenaphthylene	ND		ug/l	0.10	0.04
Anthracene	ND		ug/l	0.10	0.04
Benzo(ghi)perylene	ND		ug/l	0.10	0.04
Fluorene	ND		ug/l	0.10	0.04
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04
Pyrene	ND		ug/l	0.10	0.04
Pentachlorophenol	ND		ug/l	0.80	0.22
Hexachlorobenzene	ND		ug/l	0.80	0.03

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	54		21-120
Phenol-d6	37		10-120
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	97		15-120
2,4,6-Tribromophenol	94		10-120
4-Terphenyl-d14	82		41-149

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/17/17 11:07
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 07/14/17 08:04

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-03,05,07,09,11,13,15,17,19,21,23 Batch: WG1022533-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	98	18.
Fluoranthene	ND		ug/kg	98	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Dibenzofuran	ND		ug/kg	160	15.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/17/17 11:07
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 07/14/17 08:04

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-03,05,07,09,11,13,15,17,19,21,23 Batch: WG1022533-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	83		30-120
2,4,6-Tribromophenol	108		10-136
4-Terphenyl-d14	101		18-120

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/15/17 13:26
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 07/14/17 09:59

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 27-29,31 Batch: WG1022578-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	99	18.
Fluoranthene	ND		ug/kg	99	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Dibenzofuran	ND		ug/kg	160	16.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/15/17 13:26
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 07/14/17 09:59

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 27-29,31 Batch: WG1022578-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	93		25-120
Phenol-d6	95		10-120
Nitrobenzene-d5	98		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	86		10-136
4-Terphenyl-d14	89		18-120

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/18/17 16:59
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 07/18/17 07:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 30 Batch: WG1023388-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	98	18.
Fluoranthene	ND		ug/kg	98	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Dibenzofuran	ND		ug/kg	160	16.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 07/18/17 16:59
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 07/18/17 07:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 30 Batch: WG1023388-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	58		10-136
4-Terphenyl-d14	72		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS

Project Number: 56831.10

Lab Number: L1723613

Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 25-26 Batch: WG1022459-2 WG1022459-3								
Dibenzofuran	74		75		40-140	1		30
Phenol	34		34		12-110	0		30
2-Methylphenol	71		68		30-130	4		30
3-Methylphenol/4-Methylphenol	74		72		30-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	58		46		21-120
Phenol-d6	40		38		10-120
Nitrobenzene-d5	78		82		23-120
2-Fluorobiphenyl	78		77		15-120
2,4,6-Tribromophenol	119		95		10-120
4-Terphenyl-d14	77		70		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10

Lab Number: L1723613
Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 25-26 Batch: WG1022460-2 WG1022460-3								
Acenaphthene	78		72		37-111	8		40
Fluoranthene	81		77		40-140	5		40
Naphthalene	76		71		40-140	7		40
Benzo(a)anthracene	79		75		40-140	5		40
Benzo(a)pyrene	78		74		40-140	5		40
Benzo(b)fluoranthene	78		75		40-140	4		40
Benzo(k)fluoranthene	79		77		40-140	3		40
Chrysene	78		74		40-140	5		40
Acenaphthylene	82		76		40-140	8		40
Anthracene	80		74		40-140	8		40
Benzo(ghi)perylene	76		70		40-140	8		40
Fluorene	80		74		40-140	8		40
Phenanthrene	78		72		40-140	8		40
Dibenzo(a,h)anthracene	78		72		40-140	8		40
Indeno(1,2,3-cd)pyrene	79		73		40-140	8		40
Pyrene	80		76		26-127	5		40
Pentachlorophenol	95		87		9-103	9		40
Hexachlorobenzene	76		71		40-140	7		40

Lab Control Sample Analysis
Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10

Lab Number: L1723613
Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 25-26 Batch: WG1022460-2 WG1022460-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	51		47		21-120
Phenol-d6	36		33		10-120
Nitrobenzene-d5	75		68		23-120
2-Fluorobiphenyl	84		77		15-120
2,4,6-Tribromophenol	83		78		10-120
4-Terphenyl-d14	80		75		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS

Project Number: 56831.10

Lab Number: L1723613

Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,05,07,09,11,13,15,17,19,21,23 Batch: WG1022533-2 WG1022533-3								
Acenaphthene	86		80		31-137	7		50
Hexachlorobenzene	100		89		40-140	12		50
Fluoranthene	89		82		40-140	8		50
Naphthalene	77		74		40-140	4		50
Benzo(a)anthracene	80		72		40-140	11		50
Benzo(a)pyrene	85		77		40-140	10		50
Benzo(b)fluoranthene	82		74		40-140	10		50
Benzo(k)fluoranthene	88		80		40-140	10		50
Chrysene	80		75		40-140	6		50
Acenaphthylene	82		76		40-140	8		50
Anthracene	80		75		40-140	6		50
Benzo(ghi)perylene	84		76		40-140	10		50
Fluorene	91		83		40-140	9		50
Phenanthrene	82		76		40-140	8		50
Dibenzo(a,h)anthracene	79		71		40-140	11		50
Indeno(1,2,3-cd)pyrene	82		75		40-140	9		50
Pyrene	88		82		35-142	7		50
Dibenzofuran	89		80		40-140	11		50
Pentachlorophenol	101		88		17-109	14		50
Phenol	72		68		26-90	6		50
2-Methylphenol	83		81		30-130.	2		50
3-Methylphenol/4-Methylphenol	89		83		30-130	7		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS

Project Number: 56831.10

Lab Number: L1723613

Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,05,07,09,11,13,15,17,19,21,23 Batch: WG1022533-2 WG1022533-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	75		74		25-120
Phenol-d6	85		79		10-120
Nitrobenzene-d5	88		85		23-120
2-Fluorobiphenyl	84		76		30-120
2,4,6-Tribromophenol	117		102		10-136
4-Terphenyl-d14	90		82		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10

Lab Number: L1723613
Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 27-29,31 Batch: WG1022578-2 WG1022578-3								
Acenaphthene	103		72		31-137	35		50
Hexachlorobenzene	95		62		40-140	42		50
Fluoranthene	101		69		40-140	38		50
Naphthalene	91		66		40-140	32		50
Benzo(a)anthracene	99		66		40-140	40		50
Benzo(a)pyrene	99		66		40-140	40		50
Benzo(b)fluoranthene	104		68		40-140	42		50
Benzo(k)fluoranthene	92		62		40-140	39		50
Chrysene	94		64		40-140	38		50
Acenaphthylene	94		64		40-140	38		50
Anthracene	101		70		40-140	36		50
Benzo(ghi)perylene	97		65		40-140	40		50
Fluorene	106		72		40-140	38		50
Phenanthrene	98		68		40-140	36		50
Dibenzo(a,h)anthracene	98		67		40-140	38		50
Indeno(1,2,3-cd)pyrene	101		68		40-140	39		50
Pyrene	100		69		35-142	37		50
Dibenzofuran	104		72		40-140	36		50
Pentachlorophenol	82		54		17-109	41		50
Phenol	**113**	Q	79		26-90	35		50
2-Methylphenol	104		74		30-130.	34		50
3-Methylphenol/4-Methylphenol	109		75		30-130	37		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10

Lab Number: L1723613
Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 27-29,31 Batch: WG1022578-2 WG1022578-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	98		69		25-120
Phenol-d6	97		69		10-120
Nitrobenzene-d5	101		73		23-120
2-Fluorobiphenyl	88		60		30-120
2,4,6-Tribromophenol	94		66		10-136
4-Terphenyl-d14	89		62		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10

Lab Number: L1723613
Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 30 Batch: WG1023388-2 WG1023388-3								
Acenaphthene	69		66		31-137	4		50
Hexachlorobenzene	63		63		40-140	0		50
Fluoranthene	66		62		40-140	6		50
Naphthalene	61		60		40-140	2		50
Benzo(a)anthracene	62		59		40-140	5		50
Benzo(a)pyrene	60		59		40-140	2		50
Benzo(b)fluoranthene	58		58		40-140	0		50
Benzo(k)fluoranthene	58		58		40-140	0		50
Chrysene	60		58		40-140	3		50
Acenaphthylene	68		64		40-140	6		50
Anthracene	67		64		40-140	5		50
Benzo(ghi)perylene	57		55		40-140	4		50
Fluorene	71		67		40-140	6		50
Phenanthrene	64		60		40-140	6		50
Dibenzo(a,h)anthracene	59		58		40-140	2		50
Indeno(1,2,3-cd)pyrene	59		60		40-140	2		50
Pyrene	66		61		35-142	8		50
Dibenzofuran	70		67		40-140	4		50
Pentachlorophenol	61		56		17-109	9		50
Phenol	71		67		26-90	6		50
2-Methylphenol	74		69		30-130.	7		50
3-Methylphenol/4-Methylphenol	74		68		30-130	8		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS

Project Number: 56831.10

Lab Number: L1723613

Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 30 Batch: WG1023388-2 WG1023388-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	65		62		25-120
Phenol-d6	70		64		10-120
Nitrobenzene-d5	70		66		23-120
2-Fluorobiphenyl	63		59		30-120
2,4,6-Tribromophenol	60		61		10-136
4-Terphenyl-d14	60		57		18-120

Matrix Spike Analysis
Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,05,07,09,11,13,15,17,19,21,23 QC Batch ID: WG1022533-4 WG1022533-5 QC Sample: L1723613-05 Client ID: SP-3-1-8-071117												
Acenaphthene	ND	1600	1400	87		1200	74		31-137	15		50
Hexachlorobenzene	ND	1600	1600	100		1400	86		40-140	13		50
Fluoranthene	160	1600	1800	100		1300	70		40-140	32		50
Naphthalene	ND	1600	1200	75		1100	68		40-140	9		50
Benzo(a)anthracene	80.J	1600	1400	87		1100	68		40-140	24		50
Benzo(a)pyrene	69.J	1600	1400	87		1100	68		40-140	24		50
Benzo(b)fluoranthene	81.J	1600	1400	87		1100	68		40-140	24		50
Benzo(k)fluoranthene	ND	1600	1300	81		1100	68		40-140	17		50
Chrysene	70.J	1600	1400	87		1100	68		40-140	24		50
Acenaphthylene	ND	1600	1300	81		1200	74		40-140	8		50
Anthracene	ND	1600	1400	87		1200	74		40-140	15		50
Benzo(ghi)perylene	34.J	1600	1400	87		1100	68		40-140	24		50
Fluorene	ND	1600	1500	93		1200	74		40-140	22		50
Phenanthrene	93.J	1600	1700	110		1200	74		40-140	34		50
Dibenzo(a,h)anthracene	ND	1600	1200	75		1000	62		40-140	18		50
Indeno(1,2,3-cd)pyrene	37.J	1600	1400	87		1100	68		40-140	24		50
Pyrene	140	1600	1800	100		1300	72		35-142	32		50
Dibenzofuran	ND	1600	1400	87		1200	74		40-140	15		50
Pentachlorophenol	ND	1600	1700	**110**	Q	1400	86		17-109	19		50
Phenol	ND	1600	1200	75		1000	62		26-90	18		50
2-Methylphenol	ND	1600	1400	87		1200	74		30-130.	15		50
3-Methylphenol/4-Methylphenol	ND	1600	1400	87		1300	80		30-130	7		50

Matrix Spike Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,05,07,09,11,13,15,17,19,21,23 QC Batch ID: WG1022533-4 WG1022533-5 QC Sample: L1723613-05 Client ID: SP-3-1-8-071117												

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	117		98		10-136
2-Fluorobiphenyl	83		71		30-120
2-Fluorophenol	75		67		25-120
4-Terphenyl-d14	86		74		18-120
Nitrobenzene-d5	90		75		23-120
Phenol-d6	81		73		10-120

Matrix Spike Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 27-29,31 QC Batch ID: WG1022578-4 WG1022578-5 QC Sample: L1723613-27 Client ID: SS-1-071117												
Acenaphthene	920	1570	2100	75		1800	56		31-137	15		50
Hexachlorobenzene	ND	1570	1600	100		1300	83		40-140	21		50
Fluoranthene	7300	1570	7000	**0**	Q	6400	**0**	Q	40-140	9		50
Naphthalene	320	1570	1500	75		1200	56		40-140	22		50
Benzo(a)anthracene	3600	1570	3900	**19**	Q	3400	**0**	Q	40-140	14		50
Benzo(a)pyrene	2700	1570	3200	**32**	Q	2700	**0**	Q	40-140	17		50
Benzo(b)fluoranthene	3600	1570	4200	**38**	Q	3400	**0**	Q	40-140	21		50
Benzo(k)fluoranthene	1200	1570	1900	45		1700	**32**	Q	40-140	11		50
Chrysene	3100	1570	3600	**32**	Q	3300	**13**	Q	40-140	9		50
Acenaphthylene	38.J	1570	1400	89		1100	70		40-140	24		50
Anthracene	1800	1570	2700	57		2400	**38**	Q	40-140	12		50
Benzo(ghi)perylene	1300	1570	1900	**38**	Q	1700	**26**	Q	40-140	11		50
Fluorene	980	1570	2200	78		1900	59		40-140	15		50
Phenanthrene	6400	1570	6400	**0**	Q	6000	**0**	Q	40-140	6		50
Dibenzo(a,h)anthracene	380	1570	1300	59		1000	40		40-140	26		50
Indeno(1,2,3-cd)pyrene	1600	1570	2200	**38**	Q	1900	**19**	Q	40-140	15		50
Pyrene	5900	1570	5800	**0**	Q	5300	**0**	Q	35-142	9		50
Dibenzofuran	580	1570	2000	90		1700	72		40-140	16		50
Pentachlorophenol	ND	1570	1500	96		1100	70		17-109	31		50
Phenol	ND	1570	1200	76		1000	64		26-90	18		50
2-Methylphenol	ND	1570	1200	76		1100	70		30-130.	9		50
3-Methylphenol/4-Methylphenol	ND	1570	1300	83		1100	70		30-130	17		50

Matrix Spike Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10

Lab Number: L1723613
Report Date: 07/19/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 27-29,31 QC Batch ID: WG1022578-4 WG1022578-5 QC Sample: L1723613-27
Client ID: SS-1-071117

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	121		99		10-136
2-Fluorobiphenyl	81		70		30-120
2-Fluorophenol	78		66		25-120
4-Terphenyl-d14	72		61		18-120
Nitrobenzene-d5	85		73		23-120
Phenol-d6	76		64		10-120

PCBS

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-03
Client ID: SP-2-3.5-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/18/17 09:55
Analyst: JA
Percent Solids: 76%

Date Collected: 07/11/17 10:10
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 13:33
Cleanup Method: EPA 3665A
Cleanup Date: 07/15/17
Cleanup Method: EPA 3660B
Cleanup Date: 07/15/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	43.0	4.88	1	A
Aroclor 1221	ND		ug/kg	43.0	6.55	1	A
Aroclor 1232	ND		ug/kg	43.0	4.23	1	A
Aroclor 1242	ND		ug/kg	43.0	5.27	1	A
Aroclor 1248	ND		ug/kg	43.0	4.83	1	A
Aroclor 1254	ND		ug/kg	43.0	3.51	1	A
Aroclor 1260	ND		ug/kg	43.0	4.49	1	A
Aroclor 1262	ND		ug/kg	43.0	3.54	1	A
Aroclor 1268	ND		ug/kg	43.0	3.05	1	A
PCBs, Total	ND		ug/kg	43.0	3.05	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	34		30-150	A
Decachlorobiphenyl	42		30-150	A
2,4,5,6-Tetrachloro-m-xylene	35		30-150	B
Decachlorobiphenyl	56		30-150	B

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-09
Client ID: SP-6-0-1-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/18/17 10:12
Analyst: JA
Percent Solids: 87%

Date Collected: 07/11/17 11:40
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 13:33
Cleanup Method: EPA 3665A
Cleanup Date: 07/15/17
Cleanup Method: EPA 3660B
Cleanup Date: 07/15/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.5	4.26	1	A
Aroclor 1221	ND		ug/kg	37.5	5.71	1	A
Aroclor 1232	ND		ug/kg	37.5	3.69	1	A
Aroclor 1242	ND		ug/kg	37.5	4.59	1	A
Aroclor 1248	ND		ug/kg	37.5	4.21	1	A
Aroclor 1254	26.0	J	ug/kg	37.5	3.06	1	B
Aroclor 1260	24.5	J	ug/kg	37.5	3.92	1	B
Aroclor 1262	ND		ug/kg	37.5	3.08	1	A
Aroclor 1268	ND		ug/kg	37.5	2.66	1	A
PCBs, Total	50.5	J	ug/kg	37.5	3.06	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	51		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	47		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-11
Client ID: SP-7-4-8-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/18/17 10:28
Analyst: JA
Percent Solids: 84%

Date Collected: 07/11/17 12:30
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 13:33
Cleanup Method: EPA 3665A
Cleanup Date: 07/15/17
Cleanup Method: EPA 3660B
Cleanup Date: 07/15/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.1	4.43	1	A
Aroclor 1221	ND		ug/kg	39.1	5.94	1	A
Aroclor 1232	ND		ug/kg	39.1	3.84	1	A
Aroclor 1242	ND		ug/kg	39.1	4.78	1	A
Aroclor 1248	ND		ug/kg	39.1	4.38	1	A
Aroclor 1254	ND		ug/kg	39.1	3.19	1	A
Aroclor 1260	ND		ug/kg	39.1	4.08	1	A
Aroclor 1262	ND		ug/kg	39.1	3.21	1	A
Aroclor 1268	ND		ug/kg	39.1	2.76	1	A
PCBs, Total	ND		ug/kg	39.1	2.76	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-13
Client ID: SP-8-0-1-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/18/17 10:45
Analyst: JA
Percent Solids: 91%

Date Collected: 07/11/17 13:00
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 13:33
Cleanup Method: EPA 3665A
Cleanup Date: 07/15/17
Cleanup Method: EPA 3660B
Cleanup Date: 07/15/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.2	4.10	1	A
Aroclor 1221	ND		ug/kg	36.2	5.50	1	A
Aroclor 1232	ND		ug/kg	36.2	3.56	1	A
Aroclor 1242	ND		ug/kg	36.2	4.42	1	A
Aroclor 1248	ND		ug/kg	36.2	4.06	1	A
Aroclor 1254	ND		ug/kg	36.2	2.95	1	A
Aroclor 1260	7.79	J	ug/kg	36.2	3.77	1	B
Aroclor 1262	ND		ug/kg	36.2	2.97	1	A
Aroclor 1268	ND		ug/kg	36.2	2.56	1	A
PCBs, Total	7.79	J	ug/kg	36.2	3.77	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	50		30-150	A
Decachlorobiphenyl	39		30-150	A
2,4,5,6-Tetrachloro-m-xylene	51		30-150	B
Decachlorobiphenyl	56		30-150	B

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-15
Client ID: SP-9-0-13-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/18/17 11:01
Analyst: JA
Percent Solids: 85%

Date Collected: 07/11/17 13:20
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 13:33
Cleanup Method: EPA 3665A
Cleanup Date: 07/15/17
Cleanup Method: EPA 3660B
Cleanup Date: 07/15/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.4	4.35	1	A
Aroclor 1221	ND		ug/kg	38.4	5.84	1	A
Aroclor 1232	ND		ug/kg	38.4	3.78	1	A
Aroclor 1242	ND		ug/kg	38.4	4.70	1	A
Aroclor 1248	ND		ug/kg	38.4	4.31	1	A
Aroclor 1254	ND		ug/kg	38.4	3.13	1	A
Aroclor 1260	ND		ug/kg	38.4	4.01	1	A
Aroclor 1262	ND		ug/kg	38.4	3.16	1	A
Aroclor 1268	ND		ug/kg	38.4	2.72	1	A
PCBs, Total	ND		ug/kg	38.4	2.72	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	51		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-19
Client ID: SP-11-0.5-4.5-071117
Sample Location: BUFFALO, NY

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 07/18/17 11:17
Analyst: JA
Percent Solids: 85%

Date Collected: 07/11/17 14:20
Date Received: 07/11/17
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 07/14/17 13:33
Cleanup Method: EPA 3665A
Cleanup Date: 07/15/17
Cleanup Method: EPA 3660B
Cleanup Date: 07/15/17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.3	4.34	1	A
Aroclor 1221	ND		ug/kg	38.3	5.82	1	A
Aroclor 1232	ND		ug/kg	38.3	3.76	1	A
Aroclor 1242	ND		ug/kg	38.3	4.68	1	A
Aroclor 1248	ND		ug/kg	38.3	4.29	1	A
Aroclor 1254	ND		ug/kg	38.3	3.12	1	A
Aroclor 1260	ND		ug/kg	38.3	4.00	1	A
Aroclor 1262	ND		ug/kg	38.3	3.14	1	A
Aroclor 1268	ND		ug/kg	38.3	2.71	1	A
PCBs, Total	ND		ug/kg	38.3	2.71	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 07/16/17 21:07
Analyst: JW

Extraction Method: EPA 3546
Extraction Date: 07/14/17 01:05
Cleanup Method: EPA 3665A
Cleanup Date: 07/14/17
Cleanup Method: EPA 3660B
Cleanup Date: 07/14/17

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 03,09,11,13,15,19 Batch: WG1022440-1						
Aroclor 1016	ND		ug/kg	31.6	3.58	A
Aroclor 1221	ND		ug/kg	31.6	4.81	A
Aroclor 1232	ND		ug/kg	31.6	3.11	A
Aroclor 1242	ND		ug/kg	31.6	3.87	A
Aroclor 1248	ND		ug/kg	31.6	3.55	A
Aroclor 1254	ND		ug/kg	31.6	2.58	A
Aroclor 1260	ND		ug/kg	31.6	3.30	A
Aroclor 1262	ND		ug/kg	31.6	2.60	A
Aroclor 1268	ND		ug/kg	31.6	2.24	A
PCBs, Total	ND		ug/kg	31.6	2.24	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	103		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS

Project Number: 56831.10

Lab Number: L1723613

Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 03,09,11,13,15,19 Batch: WG1022440-2 WG1022440-3									
Aroclor 1016	77		78		40-140	1		50	A
Aroclor 1260	73		76		40-140	4		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		78		30-150	A
Decachlorobiphenyl	79		81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		85		30-150	B
Decachlorobiphenyl	96		100		30-150	B

METALS

Project Name: PIERCE ARROW APARTMENTS
Lab Number: L1723613
Project Number: 56831.10
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-02
Client ID: SP-1-0.5-8-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Percent Solids: 82%

Date Collected: 07/11/17 09:40
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	4.25		mg/kg	0.473	0.098	1	07/12/17 21:10	07/17/17 15:47	EPA 3050B	1,6010C	PS
Barium, Total	103		mg/kg	0.473	0.082	1	07/12/17 21:10	07/17/17 15:47	EPA 3050B	1,6010C	PS
Beryllium, Total	0.563		mg/kg	0.236	0.016	1	07/12/17 21:10	07/17/17 15:47	EPA 3050B	1,6010C	PS
Cadmium, Total	0.710		mg/kg	0.473	0.046	1	07/12/17 21:10	07/17/17 15:47	EPA 3050B	1,6010C	PS
Chromium, Total	13.8		mg/kg	0.473	0.045	1	07/12/17 21:10	07/17/17 15:47	EPA 3050B	1,6010C	PS
Copper, Total	18.0		mg/kg	0.473	0.122	1	07/12/17 21:10	07/17/17 15:47	EPA 3050B	1,6010C	PS
Lead, Total	122		mg/kg	2.36	0.127	1	07/12/17 21:10	07/17/17 15:47	EPA 3050B	1,6010C	PS
Manganese, Total	266		mg/kg	0.473	0.075	1	07/12/17 21:10	07/17/17 15:47	EPA 3050B	1,6010C	PS
Mercury, Total	0.12		mg/kg	0.08	0.02	1	07/13/17 09:00	07/17/17 14:51	EPA 7471B	1,7471B	MG
Nickel, Total	16.8		mg/kg	1.18	0.114	1	07/12/17 21:10	07/17/17 15:47	EPA 3050B	1,6010C	PS
Selenium, Total	0.147	J	mg/kg	0.946	0.122	1	07/12/17 21:10	07/17/17 15:47	EPA 3050B	1,6010C	PS
Silver, Total	ND		mg/kg	0.473	0.134	1	07/12/17 21:10	07/17/17 15:47	EPA 3050B	1,6010C	PS
Zinc, Total	83.5		mg/kg	2.36	0.139	1	07/12/17 21:10	07/17/17 15:47	EPA 3050B	1,6010C	PS

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-03 Date Collected: 07/11/17 10:10

Client ID: SP-2-3.5-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Matrix: Soil

Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	4.64		mg/kg	1.04	0.217	2	07/12/17 21:10	07/17/17 15:51	EPA 3050B	1,6010C	PS
Barium, Total	110		mg/kg	1.04	0.181	2	07/12/17 21:10	07/17/17 15:51	EPA 3050B	1,6010C	PS
Beryllium, Total	0.615		mg/kg	0.521	0.034	2	07/12/17 21:10	07/17/17 15:51	EPA 3050B	1,6010C	PS
Cadmium, Total	0.782	J	mg/kg	1.04	0.102	2	07/12/17 21:10	07/17/17 15:51	EPA 3050B	1,6010C	PS
Chromium, Total	16.9		mg/kg	1.04	0.100	2	07/12/17 21:10	07/17/17 15:51	EPA 3050B	1,6010C	PS
Copper, Total	18.6		mg/kg	1.04	0.269	2	07/12/17 21:10	07/17/17 15:51	EPA 3050B	1,6010C	PS
Lead, Total	18.2		mg/kg	5.21	0.279	2	07/12/17 21:10	07/17/17 15:51	EPA 3050B	1,6010C	PS
Manganese, Total	307		mg/kg	1.04	0.166	2	07/12/17 21:10	07/17/17 15:51	EPA 3050B	1,6010C	PS
Mercury, Total	0.05	J	mg/kg	0.08	0.02	1	07/13/17 09:00	07/17/17 14:53	EPA 7471B	1,7471B	MG
Nickel, Total	17.4		mg/kg	2.60	0.252	2	07/12/17 21:10	07/17/17 15:51	EPA 3050B	1,6010C	PS
Selenium, Total	ND		mg/kg	2.08	0.269	2	07/12/17 21:10	07/17/17 15:51	EPA 3050B	1,6010C	PS
Silver, Total	ND		mg/kg	1.04	0.295	2	07/12/17 21:10	07/17/17 15:51	EPA 3050B	1,6010C	PS
Zinc, Total	56.8		mg/kg	5.21	0.305	2	07/12/17 21:10	07/17/17 15:51	EPA 3050B	1,6010C	PS

Project Name: PIERCE ARROW APARTMENTS
Lab Number: L1723613
Project Number: 56831.10
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-05
Client ID: SP-3-1-8-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Percent Solids: 81%

Date Collected: 07/11/17 10:30
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	5.41		mg/kg	0.991	0.206	2	07/12/17 21:10	07/17/17 15:31	EPA 3050B	1,6010C	PS
Barium, Total	66.9		mg/kg	0.991	0.172	2	07/12/17 21:10	07/17/17 15:31	EPA 3050B	1,6010C	PS
Beryllium, Total	0.416	J	mg/kg	0.496	0.033	2	07/12/17 21:10	07/17/17 15:31	EPA 3050B	1,6010C	PS
Cadmium, Total	0.734	J	mg/kg	0.991	0.097	2	07/12/17 21:10	07/17/17 15:31	EPA 3050B	1,6010C	PS
Chromium, Total	13.2		mg/kg	0.991	0.095	2	07/12/17 21:10	07/17/17 15:31	EPA 3050B	1,6010C	PS
Copper, Total	14.2		mg/kg	0.991	0.256	2	07/12/17 21:10	07/17/17 15:31	EPA 3050B	1,6010C	PS
Lead, Total	17.5		mg/kg	4.96	0.266	2	07/12/17 21:10	07/17/17 15:31	EPA 3050B	1,6010C	PS
Manganese, Total	218		mg/kg	0.991	0.158	2	07/12/17 21:10	07/17/17 15:31	EPA 3050B	1,6010C	PS
Mercury, Total	0.04	J	mg/kg	0.08	0.02	1	07/13/17 09:00	07/17/17 14:32	EPA 7471B	1,7471B	MG
Nickel, Total	13.3		mg/kg	2.48	0.240	2	07/12/17 21:10	07/17/17 15:31	EPA 3050B	1,6010C	PS
Selenium, Total	ND		mg/kg	1.98	0.256	2	07/12/17 21:10	07/17/17 15:31	EPA 3050B	1,6010C	PS
Silver, Total	ND		mg/kg	0.991	0.280	2	07/12/17 21:10	07/17/17 15:31	EPA 3050B	1,6010C	PS
Zinc, Total	49.3		mg/kg	4.96	0.290	2	07/12/17 21:10	07/17/17 15:31	EPA 3050B	1,6010C	PS

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-07 Date Collected: 07/11/17 11:15

Client ID: SP-5-1-8-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Matrix: Soil

Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	5.86		mg/kg	0.992	0.206	2	07/12/17 21:10	07/17/17 15:55	EPA 3050B	1,6010C	PS
Barium, Total	90.1		mg/kg	0.992	0.172	2	07/12/17 21:10	07/17/17 15:55	EPA 3050B	1,6010C	PS
Beryllium, Total	0.456	J	mg/kg	0.496	0.033	2	07/12/17 21:10	07/17/17 15:55	EPA 3050B	1,6010C	PS
Cadmium, Total	0.902	J	mg/kg	0.992	0.097	2	07/12/17 21:10	07/17/17 15:55	EPA 3050B	1,6010C	PS
Chromium, Total	17.2		mg/kg	0.992	0.095	2	07/12/17 21:10	07/17/17 15:55	EPA 3050B	1,6010C	PS
Copper, Total	21.8		mg/kg	0.992	0.256	2	07/12/17 21:10	07/17/17 15:55	EPA 3050B	1,6010C	PS
Lead, Total	10.9		mg/kg	4.96	0.266	2	07/12/17 21:10	07/17/17 15:55	EPA 3050B	1,6010C	PS
Manganese, Total	422		mg/kg	0.992	0.158	2	07/12/17 21:10	07/17/17 15:55	EPA 3050B	1,6010C	PS
Mercury, Total	ND		mg/kg	0.08	0.02	1	07/13/17 09:00	07/17/17 14:55	EPA 7471B	1,7471B	MG
Nickel, Total	21.9		mg/kg	2.48	0.240	2	07/12/17 21:10	07/17/17 15:55	EPA 3050B	1,6010C	PS
Selenium, Total	ND		mg/kg	1.98	0.256	2	07/12/17 21:10	07/17/17 15:55	EPA 3050B	1,6010C	PS
Silver, Total	ND		mg/kg	0.992	0.281	2	07/12/17 21:10	07/17/17 15:55	EPA 3050B	1,6010C	PS
Zinc, Total	57.0		mg/kg	4.96	0.290	2	07/12/17 21:10	07/17/17 15:55	EPA 3050B	1,6010C	PS

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-09 Date Collected: 07/11/17 11:40

Client ID: SP-6-0-1-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	4.41		mg/kg	0.900	0.187	2	07/12/17 21:10	07/17/17 16:11	EPA 3050B	1,6010C	PS
Barium, Total	209		mg/kg	0.900	0.156	2	07/12/17 21:10	07/17/17 16:11	EPA 3050B	1,6010C	PS
Beryllium, Total	1.54		mg/kg	0.450	0.030	2	07/12/17 21:10	07/17/17 16:11	EPA 3050B	1,6010C	PS
Cadmium, Total	0.324	J	mg/kg	0.900	0.088	2	07/12/17 21:10	07/17/17 16:11	EPA 3050B	1,6010C	PS
Chromium, Total	7.00		mg/kg	0.900	0.086	2	07/12/17 21:10	07/17/17 16:11	EPA 3050B	1,6010C	PS
Copper, Total	29.2		mg/kg	0.900	0.232	2	07/12/17 21:10	07/17/17 16:11	EPA 3050B	1,6010C	PS
Lead, Total	33.2		mg/kg	4.50	0.241	2	07/12/17 21:10	07/17/17 16:11	EPA 3050B	1,6010C	PS
Manganese, Total	2180		mg/kg	0.900	0.143	2	07/12/17 21:10	07/17/17 16:11	EPA 3050B	1,6010C	PS
Mercury, Total	0.03	J	mg/kg	0.07	0.02	1	07/13/17 09:00	07/17/17 14:56	EPA 7471B	1,7471B	MG
Nickel, Total	6.32		mg/kg	2.25	0.218	2	07/12/17 21:10	07/17/17 16:11	EPA 3050B	1,6010C	PS
Selenium, Total	1.97		mg/kg	1.80	0.232	2	07/12/17 21:10	07/17/17 16:11	EPA 3050B	1,6010C	PS
Silver, Total	0.738	J	mg/kg	0.900	0.255	2	07/12/17 21:10	07/17/17 16:11	EPA 3050B	1,6010C	PS
Zinc, Total	33.2		mg/kg	4.50	0.264	2	07/12/17 21:10	07/17/17 16:11	EPA 3050B	1,6010C	PS

Project Name: PIERCE ARROW APARTMENTS
Lab Number: L1723613
Project Number: 56831.10
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-11
Client ID: SP-7-4-8-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Percent Solids: 84%

Date Collected: 07/11/17 12:30
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	3.86		mg/kg	0.944	0.196	2	07/12/17 21:10	07/17/17 16:15	EPA 3050B	1,6010C	PS
Barium, Total	90.5		mg/kg	0.944	0.164	2	07/12/17 21:10	07/17/17 16:15	EPA 3050B	1,6010C	PS
Beryllium, Total	0.548		mg/kg	0.472	0.031	2	07/12/17 21:10	07/17/17 16:15	EPA 3050B	1,6010C	PS
Cadmium, Total	1.04		mg/kg	0.944	0.093	2	07/12/17 21:10	07/17/17 16:15	EPA 3050B	1,6010C	PS
Chromium, Total	19.5		mg/kg	0.944	0.091	2	07/12/17 21:10	07/17/17 16:15	EPA 3050B	1,6010C	PS
Copper, Total	24.1		mg/kg	0.944	0.244	2	07/12/17 21:10	07/17/17 16:15	EPA 3050B	1,6010C	PS
Lead, Total	9.86		mg/kg	4.72	0.253	2	07/12/17 21:10	07/17/17 16:15	EPA 3050B	1,6010C	PS
Manganese, Total	451		mg/kg	0.944	0.150	2	07/12/17 21:10	07/17/17 16:15	EPA 3050B	1,6010C	PS
Mercury, Total	ND		mg/kg	0.08	0.02	1	07/13/17 09:00	07/17/17 14:58	EPA 7471B	1,7471B	MG
Nickel, Total	25.4		mg/kg	2.36	0.228	2	07/12/17 21:10	07/17/17 16:15	EPA 3050B	1,6010C	PS
Selenium, Total	ND		mg/kg	1.89	0.244	2	07/12/17 21:10	07/17/17 16:15	EPA 3050B	1,6010C	PS
Silver, Total	ND		mg/kg	0.944	0.267	2	07/12/17 21:10	07/17/17 16:15	EPA 3050B	1,6010C	PS
Zinc, Total	65.6		mg/kg	4.72	0.277	2	07/12/17 21:10	07/17/17 16:15	EPA 3050B	1,6010C	PS

Project Name: PIERCE ARROW APARTMENTS
Lab Number: L1723613
Project Number: 56831.10
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-13
Client ID: SP-8-0-1-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Percent Solids: 91%

Date Collected: 07/11/17 13:00
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	7.15		mg/kg	0.864	0.180	2	07/12/17 21:10	07/17/17 16:19	EPA 3050B	1,6010C	PS
Barium, Total	192		mg/kg	0.864	0.150	2	07/12/17 21:10	07/17/17 16:19	EPA 3050B	1,6010C	PS
Beryllium, Total	0.751		mg/kg	0.432	0.029	2	07/12/17 21:10	07/17/17 16:19	EPA 3050B	1,6010C	PS
Cadmium, Total	4.20		mg/kg	0.864	0.085	2	07/12/17 21:10	07/17/17 16:19	EPA 3050B	1,6010C	PS
Chromium, Total	1510		mg/kg	0.864	0.083	2	07/12/17 21:10	07/17/17 16:19	EPA 3050B	1,6010C	PS
Copper, Total	200		mg/kg	0.864	0.223	2	07/12/17 21:10	07/17/17 16:19	EPA 3050B	1,6010C	PS
Lead, Total	30.3		mg/kg	4.32	0.231	2	07/12/17 21:10	07/17/17 16:19	EPA 3050B	1,6010C	PS
Manganese, Total	38600		mg/kg	8.64	1.37	20	07/12/17 21:10	07/17/17 18:20	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.07	0.02	1	07/13/17 09:00	07/17/17 15:00	EPA 7471B	1,7471B	MG
Nickel, Total	72.0		mg/kg	2.16	0.209	2	07/12/17 21:10	07/17/17 16:19	EPA 3050B	1,6010C	PS
Selenium, Total	8.23		mg/kg	1.73	0.223	2	07/12/17 21:10	07/17/17 16:19	EPA 3050B	1,6010C	PS
Silver, Total	7.32		mg/kg	0.864	0.244	2	07/12/17 21:10	07/17/17 16:19	EPA 3050B	1,6010C	PS
Zinc, Total	70.2		mg/kg	4.32	0.253	2	07/12/17 21:10	07/17/17 16:19	EPA 3050B	1,6010C	PS

Project Name: PIERCE ARROW APARTMENTS
Lab Number: L1723613
Project Number: 56831.10
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-15
Client ID: SP-9-0-13-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Percent Solids: 85%

Date Collected: 07/11/17 13:20
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	5.73		mg/kg	0.893	0.186	2	07/12/17 21:10	07/17/17 16:23	EPA 3050B	1,6010C	PS
Barium, Total	44.6		mg/kg	0.893	0.155	2	07/12/17 21:10	07/17/17 16:23	EPA 3050B	1,6010C	PS
Beryllium, Total	0.295	J	mg/kg	0.447	0.030	2	07/12/17 21:10	07/17/17 16:23	EPA 3050B	1,6010C	PS
Cadmium, Total	0.572	J	mg/kg	0.893	0.088	2	07/12/17 21:10	07/17/17 16:23	EPA 3050B	1,6010C	PS
Chromium, Total	7.78		mg/kg	0.893	0.086	2	07/12/17 21:10	07/17/17 16:23	EPA 3050B	1,6010C	PS
Copper, Total	50.0		mg/kg	0.893	0.230	2	07/12/17 21:10	07/17/17 16:23	EPA 3050B	1,6010C	PS
Lead, Total	47.6		mg/kg	4.47	0.239	2	07/12/17 21:10	07/17/17 16:23	EPA 3050B	1,6010C	PS
Manganese, Total	155		mg/kg	0.893	0.142	2	07/12/17 21:10	07/17/17 16:23	EPA 3050B	1,6010C	PS
Mercury, Total	0.04	J	mg/kg	0.07	0.02	1	07/13/17 09:00	07/17/17 15:02	EPA 7471B	1,7471B	MG
Nickel, Total	9.83		mg/kg	2.23	0.216	2	07/12/17 21:10	07/17/17 16:23	EPA 3050B	1,6010C	PS
Selenium, Total	0.777	J	mg/kg	1.79	0.230	2	07/12/17 21:10	07/17/17 16:23	EPA 3050B	1,6010C	PS
Silver, Total	ND		mg/kg	0.893	0.253	2	07/12/17 21:10	07/17/17 16:23	EPA 3050B	1,6010C	PS
Zinc, Total	54.2		mg/kg	4.47	0.262	2	07/12/17 21:10	07/17/17 16:23	EPA 3050B	1,6010C	PS

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-17 Date Collected: 07/11/17 13:50

Client ID: SP-10-0-4.5-071117 Date Received: 07/11/17

Sample Location: BUFFALO, NY Field Prep: Not Specified

Matrix: Soil

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	14.6		mg/kg	0.857	0.178	2	07/12/17 21:10	07/17/17 16:27	EPA 3050B	1,6010C	PS
Barium, Total	101		mg/kg	0.857	0.149	2	07/12/17 21:10	07/17/17 16:27	EPA 3050B	1,6010C	PS
Beryllium, Total	0.454		mg/kg	0.428	0.028	2	07/12/17 21:10	07/17/17 16:27	EPA 3050B	1,6010C	PS
Cadmium, Total	1.94		mg/kg	0.857	0.084	2	07/12/17 21:10	07/17/17 16:27	EPA 3050B	1,6010C	PS
Chromium, Total	20.5		mg/kg	0.857	0.082	2	07/12/17 21:10	07/17/17 16:27	EPA 3050B	1,6010C	PS
Copper, Total	494		mg/kg	0.857	0.221	2	07/12/17 21:10	07/17/17 16:27	EPA 3050B	1,6010C	PS
Lead, Total	210		mg/kg	4.28	0.230	2	07/12/17 21:10	07/17/17 16:27	EPA 3050B	1,6010C	PS
Manganese, Total	388		mg/kg	0.857	0.136	2	07/12/17 21:10	07/17/17 16:27	EPA 3050B	1,6010C	PS
Mercury, Total	0.55		mg/kg	0.07	0.01	1	07/13/17 09:00	07/17/17 15:04	EPA 7471B	1,7471B	MG
Nickel, Total	34.7		mg/kg	2.14	0.207	2	07/12/17 21:10	07/17/17 16:27	EPA 3050B	1,6010C	PS
Selenium, Total	0.737	J	mg/kg	1.71	0.221	2	07/12/17 21:10	07/17/17 16:27	EPA 3050B	1,6010C	PS
Silver, Total	0.600	J	mg/kg	0.857	0.242	2	07/12/17 21:10	07/17/17 16:27	EPA 3050B	1,6010C	PS
Zinc, Total	269		mg/kg	4.28	0.251	2	07/12/17 21:10	07/17/17 16:27	EPA 3050B	1,6010C	PS

Project Name: PIERCE ARROW APARTMENTS
Lab Number: L1723613
Project Number: 56831.10
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-19
Client ID: SP-11-0.5-4.5-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Percent Solids: 85%

Date Collected: 07/11/17 14:20
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	52.7		mg/kg	0.890	0.185	2	07/12/17 21:10	07/17/17 17:04	EPA 3050B	1,6010C	AB
Barium, Total	76.7		mg/kg	0.890	0.155	2	07/12/17 21:10	07/17/17 17:04	EPA 3050B	1,6010C	AB
Beryllium, Total	0.427	J	mg/kg	0.445	0.029	2	07/12/17 21:10	07/17/17 17:04	EPA 3050B	1,6010C	AB
Cadmium, Total	1.97		mg/kg	0.890	0.087	2	07/12/17 21:10	07/17/17 17:04	EPA 3050B	1,6010C	AB
Chromium, Total	17.3		mg/kg	0.890	0.086	2	07/12/17 21:10	07/17/17 17:04	EPA 3050B	1,6010C	AB
Copper, Total	49.5		mg/kg	0.890	0.230	2	07/12/17 21:10	07/17/17 17:04	EPA 3050B	1,6010C	AB
Lead, Total	29.8		mg/kg	4.45	0.239	2	07/12/17 21:10	07/17/17 17:04	EPA 3050B	1,6010C	AB
Manganese, Total	87.3		mg/kg	0.890	0.142	2	07/12/17 21:10	07/17/17 17:04	EPA 3050B	1,6010C	AB
Mercury, Total	0.05	J	mg/kg	0.07	0.02	1	07/13/17 09:00	07/17/17 15:10	EPA 7471B	1,7471B	MG
Nickel, Total	8.96		mg/kg	2.23	0.215	2	07/12/17 21:10	07/17/17 17:04	EPA 3050B	1,6010C	AB
Selenium, Total	1.88		mg/kg	1.78	0.230	2	07/12/17 21:10	07/17/17 17:04	EPA 3050B	1,6010C	AB
Silver, Total	0.267	J	mg/kg	0.890	0.252	2	07/12/17 21:10	07/17/17 17:04	EPA 3050B	1,6010C	AB
Zinc, Total	41.6		mg/kg	4.45	0.261	2	07/12/17 21:10	07/17/17 17:04	EPA 3050B	1,6010C	AB

Project Name: PIERCE ARROW APARTMENTS
Lab Number: L1723613
Project Number: 56831.10
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-21
Client ID: SP-12-0-3-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Percent Solids: 77%

Date Collected: 07/11/17 14:45
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	14.3		mg/kg	1.03	0.214	2	07/12/17 21:10	07/17/17 17:08	EPA 3050B	1,6010C	AB
Barium, Total	101		mg/kg	1.03	0.179	2	07/12/17 21:10	07/17/17 17:08	EPA 3050B	1,6010C	AB
Beryllium, Total	0.596		mg/kg	0.514	0.034	2	07/12/17 21:10	07/17/17 17:08	EPA 3050B	1,6010C	AB
Cadmium, Total	1.52		mg/kg	1.03	0.101	2	07/12/17 21:10	07/17/17 17:08	EPA 3050B	1,6010C	AB
Chromium, Total	45.8		mg/kg	1.03	0.099	2	07/12/17 21:10	07/17/17 17:08	EPA 3050B	1,6010C	AB
Copper, Total	268		mg/kg	1.03	0.265	2	07/12/17 21:10	07/17/17 17:08	EPA 3050B	1,6010C	AB
Lead, Total	200		mg/kg	5.14	0.275	2	07/12/17 21:10	07/17/17 17:08	EPA 3050B	1,6010C	AB
Manganese, Total	452		mg/kg	1.03	0.163	2	07/12/17 21:10	07/17/17 17:08	EPA 3050B	1,6010C	AB
Mercury, Total	0.16		mg/kg	0.08	0.02	1	07/13/17 09:00	07/17/17 15:11	EPA 7471B	1,7471B	MG
Nickel, Total	21.6		mg/kg	2.57	0.248	2	07/12/17 21:10	07/17/17 17:08	EPA 3050B	1,6010C	AB
Selenium, Total	1.05	J	mg/kg	2.05	0.265	2	07/12/17 21:10	07/17/17 17:08	EPA 3050B	1,6010C	AB
Silver, Total	0.339	J	mg/kg	1.03	0.291	2	07/12/17 21:10	07/17/17 17:08	EPA 3050B	1,6010C	AB
Zinc, Total	234		mg/kg	5.14	0.301	2	07/12/17 21:10	07/17/17 17:08	EPA 3050B	1,6010C	AB

Project Name: PIERCE ARROW APARTMENTS
Lab Number: L1723613
Project Number: 56831.10
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-23
Client ID: SP-13-0-4.5-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Percent Solids: 77%

Date Collected: 07/11/17 15:15
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	11.0		mg/kg	1.01	0.210	2	07/12/17 21:10	07/17/17 17:12	EPA 3050B	1,6010C	AB
Barium, Total	67.3		mg/kg	1.01	0.175	2	07/12/17 21:10	07/17/17 17:12	EPA 3050B	1,6010C	AB
Beryllium, Total	0.494	J	mg/kg	0.504	0.033	2	07/12/17 21:10	07/17/17 17:12	EPA 3050B	1,6010C	AB
Cadmium, Total	1.03		mg/kg	1.01	0.099	2	07/12/17 21:10	07/17/17 17:12	EPA 3050B	1,6010C	AB
Chromium, Total	66.6		mg/kg	1.01	0.097	2	07/12/17 21:10	07/17/17 17:12	EPA 3050B	1,6010C	AB
Copper, Total	202		mg/kg	1.01	0.260	2	07/12/17 21:10	07/17/17 17:12	EPA 3050B	1,6010C	AB
Lead, Total	69.7		mg/kg	5.04	0.270	2	07/12/17 21:10	07/17/17 17:12	EPA 3050B	1,6010C	AB
Manganese, Total	756		mg/kg	1.01	0.160	2	07/12/17 21:10	07/17/17 17:12	EPA 3050B	1,6010C	AB
Mercury, Total	0.04	J	mg/kg	0.08	0.02	1	07/13/17 09:00	07/17/17 15:13	EPA 7471B	1,7471B	MG
Nickel, Total	22.1		mg/kg	2.52	0.244	2	07/12/17 21:10	07/17/17 17:12	EPA 3050B	1,6010C	AB
Selenium, Total	1.76	J	mg/kg	2.02	0.260	2	07/12/17 21:10	07/17/17 17:12	EPA 3050B	1,6010C	AB
Silver, Total	0.494	J	mg/kg	1.01	0.285	2	07/12/17 21:10	07/17/17 17:12	EPA 3050B	1,6010C	AB
Zinc, Total	85.9		mg/kg	5.04	0.295	2	07/12/17 21:10	07/17/17 17:12	EPA 3050B	1,6010C	AB

Project Name: PIERCE ARROW APARTMENTS
Lab Number: L1723613
Project Number: 56831.10
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-24
Client ID: SUBSURFACE DUPLICATE -071117
Sample Location: BUFFALO, NY
Matrix: Soil
Percent Solids: 83%

Date Collected: 07/11/17 00:00
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	2.51		mg/kg	0.952	0.198	2	07/12/17 21:10	07/17/17 17:16	EPA 3050B	1,6010C	AB
Barium, Total	136		mg/kg	0.952	0.166	2	07/12/17 21:10	07/17/17 17:16	EPA 3050B	1,6010C	AB
Beryllium, Total	0.476		mg/kg	0.476	0.031	2	07/12/17 21:10	07/17/17 17:16	EPA 3050B	1,6010C	AB
Cadmium, Total	0.905	J	mg/kg	0.952	0.093	2	07/12/17 21:10	07/17/17 17:16	EPA 3050B	1,6010C	AB
Chromium, Total	18.0		mg/kg	0.952	0.091	2	07/12/17 21:10	07/17/17 17:16	EPA 3050B	1,6010C	AB
Copper, Total	20.6		mg/kg	0.952	0.246	2	07/12/17 21:10	07/17/17 17:16	EPA 3050B	1,6010C	AB
Lead, Total	9.72		mg/kg	4.76	0.255	2	07/12/17 21:10	07/17/17 17:16	EPA 3050B	1,6010C	AB
Manganese, Total	431		mg/kg	0.952	0.151	2	07/12/17 21:10	07/17/17 17:16	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.08	0.02	1	07/13/17 09:00	07/17/17 15:15	EPA 7471B	1,7471B	MG
Nickel, Total	23.1		mg/kg	2.38	0.230	2	07/12/17 21:10	07/17/17 17:16	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.90	0.246	2	07/12/17 21:10	07/17/17 17:16	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.952	0.270	2	07/12/17 21:10	07/17/17 17:16	EPA 3050B	1,6010C	AB
Zinc, Total	60.6		mg/kg	4.76	0.279	2	07/12/17 21:10	07/17/17 17:16	EPA 3050B	1,6010C	AB

Project Name: PIERCE ARROW APARTMENTS
Lab Number: L1723613
Project Number: 56831.10
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-27
Client ID: SS-1-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Percent Solids: 84%

Date Collected: 07/11/17 15:50
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	5.38		mg/kg	0.947	0.197	2	07/12/17 21:10	07/17/17 16:31	EPA 3050B	1,6010C	PS
Barium, Total	110		mg/kg	0.947	0.165	2	07/12/17 21:10	07/17/17 16:31	EPA 3050B	1,6010C	PS
Beryllium, Total	0.474		mg/kg	0.474	0.031	2	07/12/17 21:10	07/17/17 16:31	EPA 3050B	1,6010C	PS
Cadmium, Total	1.26		mg/kg	0.947	0.093	2	07/12/17 21:10	07/17/17 16:31	EPA 3050B	1,6010C	PS
Chromium, Total	26.6		mg/kg	0.947	0.091	2	07/12/17 21:10	07/17/17 16:31	EPA 3050B	1,6010C	PS
Copper, Total	45.0		mg/kg	0.947	0.244	2	07/12/17 21:10	07/17/17 16:31	EPA 3050B	1,6010C	PS
Lead, Total	57.0		mg/kg	4.74	0.254	2	07/12/17 21:10	07/17/17 16:31	EPA 3050B	1,6010C	PS
Manganese, Total	677		mg/kg	0.947	0.151	2	07/12/17 21:10	07/17/17 16:31	EPA 3050B	1,6010C	PS
Mercury, Total	0.05	J	mg/kg	0.08	0.02	1	07/13/17 09:00	07/17/17 14:40	EPA 7471B	1,7471B	MG
Nickel, Total	23.2		mg/kg	2.37	0.229	2	07/12/17 21:10	07/17/17 16:31	EPA 3050B	1,6010C	PS
Selenium, Total	ND		mg/kg	1.89	0.244	2	07/12/17 21:10	07/17/17 16:31	EPA 3050B	1,6010C	PS
Silver, Total	0.398	J	mg/kg	0.947	0.268	2	07/12/17 21:10	07/17/17 16:31	EPA 3050B	1,6010C	PS
Zinc, Total	135		mg/kg	4.74	0.278	2	07/12/17 21:10	07/17/17 16:31	EPA 3050B	1,6010C	PS

Project Name: PIERCE ARROW APARTMENTS
Lab Number: L1723613
Project Number: 56831.10
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-28
Client ID: SS-2-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Percent Solids: 84%

Date Collected: 07/11/17 15:55
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	5.71		mg/kg	0.911	0.190	2	07/12/17 21:10	07/17/17 17:20	EPA 3050B	1,6010C	AB
Barium, Total	102		mg/kg	0.911	0.158	2	07/12/17 21:10	07/17/17 17:20	EPA 3050B	1,6010C	AB
Beryllium, Total	0.492		mg/kg	0.456	0.030	2	07/12/17 21:10	07/17/17 17:20	EPA 3050B	1,6010C	AB
Cadmium, Total	1.18		mg/kg	0.911	0.089	2	07/12/17 21:10	07/17/17 17:20	EPA 3050B	1,6010C	AB
Chromium, Total	277		mg/kg	0.911	0.088	2	07/12/17 21:10	07/17/17 17:20	EPA 3050B	1,6010C	AB
Copper, Total	48.6		mg/kg	0.911	0.235	2	07/12/17 21:10	07/17/17 17:20	EPA 3050B	1,6010C	AB
Lead, Total	51.1		mg/kg	4.56	0.244	2	07/12/17 21:10	07/17/17 17:20	EPA 3050B	1,6010C	AB
Manganese, Total	642		mg/kg	0.911	0.145	2	07/12/17 21:10	07/17/17 17:20	EPA 3050B	1,6010C	AB
Mercury, Total	0.05	J	mg/kg	0.07	0.02	1	07/13/17 09:00	07/17/17 15:17	EPA 7471B	1,7471B	MG
Nickel, Total	482		mg/kg	2.28	0.220	2	07/12/17 21:10	07/17/17 17:20	EPA 3050B	1,6010C	AB
Selenium, Total	0.647	J	mg/kg	1.82	0.235	2	07/12/17 21:10	07/17/17 17:20	EPA 3050B	1,6010C	AB
Silver, Total	0.355	J	mg/kg	0.911	0.258	2	07/12/17 21:10	07/17/17 17:20	EPA 3050B	1,6010C	AB
Zinc, Total	96.6		mg/kg	4.56	0.267	2	07/12/17 21:10	07/17/17 17:20	EPA 3050B	1,6010C	AB

Project Name: PIERCE ARROW APARTMENTS
Lab Number: L1723613
Project Number: 56831.10
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-29
Client ID: SS-3-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Percent Solids: 91%

Date Collected: 07/11/17 16:00
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	3.61		mg/kg	0.828	0.172	2	07/12/17 21:10	07/17/17 17:24	EPA 3050B	1,6010C	AB
Barium, Total	68.2		mg/kg	0.828	0.144	2	07/12/17 21:10	07/17/17 17:24	EPA 3050B	1,6010C	AB
Beryllium, Total	0.563		mg/kg	0.414	0.027	2	07/12/17 21:10	07/17/17 17:24	EPA 3050B	1,6010C	AB
Cadmium, Total	0.811	J	mg/kg	0.828	0.081	2	07/12/17 21:10	07/17/17 17:24	EPA 3050B	1,6010C	AB
Chromium, Total	12.5		mg/kg	0.828	0.079	2	07/12/17 21:10	07/17/17 17:24	EPA 3050B	1,6010C	AB
Copper, Total	33.9		mg/kg	0.828	0.214	2	07/12/17 21:10	07/17/17 17:24	EPA 3050B	1,6010C	AB
Lead, Total	32.4		mg/kg	4.14	0.222	2	07/12/17 21:10	07/17/17 17:24	EPA 3050B	1,6010C	AB
Manganese, Total	414		mg/kg	0.828	0.132	2	07/12/17 21:10	07/17/17 17:24	EPA 3050B	1,6010C	AB
Mercury, Total	0.03	J	mg/kg	0.07	0.01	1	07/13/17 09:00	07/17/17 15:19	EPA 7471B	1,7471B	MG
Nickel, Total	11.5		mg/kg	2.07	0.200	2	07/12/17 21:10	07/17/17 17:24	EPA 3050B	1,6010C	AB
Selenium, Total	0.364	J	mg/kg	1.66	0.214	2	07/12/17 21:10	07/17/17 17:24	EPA 3050B	1,6010C	AB
Silver, Total	0.256	J	mg/kg	0.828	0.234	2	07/12/17 21:10	07/17/17 17:24	EPA 3050B	1,6010C	AB
Zinc, Total	95.8		mg/kg	4.14	0.242	2	07/12/17 21:10	07/17/17 17:24	EPA 3050B	1,6010C	AB

Project Name: PIERCE ARROW APARTMENTS
Lab Number: L1723613
Project Number: 56831.10
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-30
Client ID: SS-4-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Percent Solids: 97%

Date Collected: 07/11/17 16:10
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	3.30		mg/kg	0.801	0.167	2	07/12/17 21:10	07/17/17 17:28	EPA 3050B	1,6010C	AB
Barium, Total	49.4		mg/kg	0.801	0.139	2	07/12/17 21:10	07/17/17 17:28	EPA 3050B	1,6010C	AB
Beryllium, Total	0.232	J	mg/kg	0.401	0.026	2	07/12/17 21:10	07/17/17 17:28	EPA 3050B	1,6010C	AB
Cadmium, Total	0.625	J	mg/kg	0.801	0.079	2	07/12/17 21:10	07/17/17 17:28	EPA 3050B	1,6010C	AB
Chromium, Total	11.5		mg/kg	0.801	0.077	2	07/12/17 21:10	07/17/17 17:28	EPA 3050B	1,6010C	AB
Copper, Total	18.8		mg/kg	0.801	0.207	2	07/12/17 21:10	07/17/17 17:28	EPA 3050B	1,6010C	AB
Lead, Total	12.3		mg/kg	4.01	0.215	2	07/12/17 21:10	07/17/17 17:28	EPA 3050B	1,6010C	AB
Manganese, Total	305		mg/kg	0.801	0.127	2	07/12/17 21:10	07/17/17 17:28	EPA 3050B	1,6010C	AB
Mercury, Total	0.03	J	mg/kg	0.06	0.01	1	07/13/17 09:00	07/17/17 15:21	EPA 7471B	1,7471B	MG
Nickel, Total	13.0		mg/kg	2.00	0.194	2	07/12/17 21:10	07/17/17 17:28	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.60	0.207	2	07/12/17 21:10	07/17/17 17:28	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.801	0.227	2	07/12/17 21:10	07/17/17 17:28	EPA 3050B	1,6010C	AB
Zinc, Total	59.8		mg/kg	4.01	0.235	2	07/12/17 21:10	07/17/17 17:28	EPA 3050B	1,6010C	AB

Project Name: PIERCE ARROW APARTMENTS
Lab Number: L1723613
Project Number: 56831.10
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-31
Client ID: SURFACE SOIL DUPLICATE
Sample Location: BUFFALO, NY
Matrix: Soil
Percent Solids: 93%

Date Collected: 07/11/17 00:00
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	3.43		mg/kg	0.838	0.174	2	07/12/17 21:10	07/17/17 17:56	EPA 3050B	1,6010C	AB
Barium, Total	69.6		mg/kg	0.838	0.146	2	07/12/17 21:10	07/17/17 17:56	EPA 3050B	1,6010C	AB
Beryllium, Total	0.335	J	mg/kg	0.419	0.028	2	07/12/17 21:10	07/17/17 17:56	EPA 3050B	1,6010C	AB
Cadmium, Total	0.771	J	mg/kg	0.838	0.082	2	07/12/17 21:10	07/17/17 17:56	EPA 3050B	1,6010C	AB
Chromium, Total	12.6		mg/kg	0.838	0.081	2	07/12/17 21:10	07/17/17 17:56	EPA 3050B	1,6010C	AB
Copper, Total	29.4		mg/kg	0.838	0.216	2	07/12/17 21:10	07/17/17 17:56	EPA 3050B	1,6010C	AB
Lead, Total	29.1		mg/kg	4.19	0.225	2	07/12/17 21:10	07/17/17 17:56	EPA 3050B	1,6010C	AB
Manganese, Total	499		mg/kg	0.838	0.133	2	07/12/17 21:10	07/17/17 17:56	EPA 3050B	1,6010C	AB
Mercury, Total	0.03	J	mg/kg	0.07	0.01	1	07/13/17 09:00	07/17/17 15:23	EPA 7471B	1,7471B	MG
Nickel, Total	11.4		mg/kg	2.10	0.203	2	07/12/17 21:10	07/17/17 17:56	EPA 3050B	1,6010C	AB
Selenium, Total	0.914	J	mg/kg	1.68	0.216	2	07/12/17 21:10	07/17/17 17:56	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.838	0.237	2	07/12/17 21:10	07/17/17 17:56	EPA 3050B	1,6010C	AB
Zinc, Total	93.6		mg/kg	4.19	0.246	2	07/12/17 21:10	07/17/17 17:56	EPA 3050B	1,6010C	AB

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02-03,05,07,09,11,13,15,17,19,21,23-24,27-31 Batch: WG1021962-1										
Arsenic, Total	0.164	J	mg/kg	0.400	0.083	1	07/12/17 21:10	07/17/17 15:23	1,6010C	PS
Barium, Total	ND		mg/kg	0.400	0.070	1	07/12/17 21:10	07/17/17 15:23	1,6010C	PS
Beryllium, Total	ND		mg/kg	0.200	0.013	1	07/12/17 21:10	07/17/17 15:23	1,6010C	PS
Cadmium, Total	ND		mg/kg	0.400	0.039	1	07/12/17 21:10	07/17/17 15:23	1,6010C	PS
Chromium, Total	ND		mg/kg	0.400	0.038	1	07/12/17 21:10	07/17/17 15:23	1,6010C	PS
Copper, Total	ND		mg/kg	0.400	0.103	1	07/12/17 21:10	07/17/17 15:23	1,6010C	PS
Lead, Total	ND		mg/kg	2.00	0.107	1	07/12/17 21:10	07/17/17 15:23	1,6010C	PS
Manganese, Total	ND		mg/kg	0.400	0.064	1	07/12/17 21:10	07/17/17 15:23	1,6010C	PS
Nickel, Total	ND		mg/kg	1.00	0.097	1	07/12/17 21:10	07/17/17 15:23	1,6010C	PS
Selenium, Total	ND		mg/kg	0.800	0.103	1	07/12/17 21:10	07/17/17 15:23	1,6010C	PS
Silver, Total	ND		mg/kg	0.400	0.113	1	07/12/17 21:10	07/17/17 15:23	1,6010C	PS
Zinc, Total	ND		mg/kg	2.00	0.117	1	07/12/17 21:10	07/17/17 15:23	1,6010C	PS

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02-03,05,07,09,11,13,15,17,19,21,23-24,27-31 Batch: WG1022069-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	07/13/17 09:00	07/17/17 14:28	1,7471B	MG

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS

Project Number: 56831.10

Lab Number: L1723613

Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-03,05,07,09,11,13,15,17,19,21,23-24,27-31 Batch: WG1021962-2 SRM Lot Number: D093-540								
Arsenic, Total	110		-		70-130	-		
Barium, Total	104		-		83-117	-		
Beryllium, Total	100		-		83-117	-		
Cadmium, Total	97		-		83-117	-		
Chromium, Total	100		-		80-120	-		
Copper, Total	101		-		82-118	-		
Lead, Total	96		-		82-117	-		
Manganese, Total	104		-		81-119	-		
Nickel, Total	95		-		83-117	-		
Selenium, Total	103		-		78-122	-		
Silver, Total	108		-		76-124	-		
Zinc, Total	96		-		83-117	-		
Total Metals - Mansfield Lab Associated sample(s): 02-03,05,07,09,11,13,15,17,19,21,23-24,27-31 Batch: WG1022069-2 SRM Lot Number: D093-540								
Mercury, Total	81		-		72-128	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10

Lab Number: L1723613
Report Date: 07/19/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-03,05,07,09,11,13,15,17,19,21,23-24,27-31 QC Batch ID: WG1021962-3 WG1021962-4 QC Sample: L1723613-05 Client ID: SP-3-1-8-071117												
Arsenic, Total	5.41	11.4	16.4	96		17.0	101		75-125	4		20
Barium, Total	66.9	191	235	88		233	87		75-125	1		20
Beryllium, Total	0.416J	4.77	4.44	93		4.46	93		75-125	0		20
Cadmium, Total	0.734J	4.87	4.94	101		4.96	102		75-125	0		20
Chromium, Total	13.2	19.1	29.6	86		29.0	82		75-125	2		20
Copper, Total	14.2	23.9	36.4	93		34.3	84		75-125	6		20
Lead, Total	17.5	48.7	56.9	81		61.1	89		75-125	7		20
Manganese, Total	218.	47.7	266	100		200	**0**	Q	75-125	**28**	Q	20
Nickel, Total	13.3	47.7	53.6	84		52.4	82		75-125	2		20
Selenium, Total	ND	11.4	9.88	86		10.5	91		75-125	6		20
Silver, Total	ND	28.6	24.6	86		24.8	86		75-125	1		20
Zinc, Total	49.3	47.7	95.4	96		91.0	87		75-125	5		20

Matrix Spike Analysis
Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10

Lab Number: L1723613
Report Date: 07/19/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery		Recovery Limits	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-03,05,07,09,11,13,15,17,19,21,23-24,27-31 QC Batch ID: WG1021962-7 WG1021962-8 QC Sample: L1723613-27 Client ID: SS-1-071117												
Arsenic, Total	5.38	11.2	15.1	87		15.0	85		75-125	1		20
Barium, Total	110.	187	275	88		255	77		75-125	8		20
Beryllium, Total	0.474	4.67	4.06	87		3.99	85		75-125	2		20
Cadmium, Total	1.26	4.77	5.08	80		4.74	**73**	Q	75-125	7		20
Chromium, Total	26.6	18.7	93.2	**356**	Q	41.1	77		75-125	**78**	Q	20
Copper, Total	45.0	23.4	68.1	99		63.3	78		75-125	7		20
Lead, Total	57.0	47.7	99.7	90		85.5	**60**	Q	75-125	15		20
Manganese, Total	677.	46.7	1690	**2170**	Q	731	115		75-125	**79**	Q	20
Nickel, Total	23.2	46.7	56.4	**71**	Q	57.3	**73**	Q	75-125	2		20
Selenium, Total	ND	11.2	10.2	91		9.14	81		75-125	11		20
Silver, Total	0.398J	28	24.3	87		22.8	81		75-125	6		20
Zinc, Total	135.	46.7	204	**148**	Q	160	**53**	Q	75-125	**24**	Q	20
Total Metals - Mansfield Lab Associated sample(s): 02-03,05,07,09,11,13,15,17,19,21,23-24,27-31 QC Batch ID: WG1022069-3 WG1022069-4 QC Sample: L1723613-05 Client ID: SP-3-1-8-071117												
Mercury, Total	0.04J	0.162	0.20	**123**	Q	0.20	**128**	Q	80-120	0		20
Total Metals - Mansfield Lab Associated sample(s): 02-03,05,07,09,11,13,15,17,19,21,23-24,27-31 QC Batch ID: WG1022069-5 WG1022069-6 QC Sample: L1723613-27 Client ID: SS-1-071117												
Mercury, Total	0.05J	0.15	0.19	**127**	Q	0.19	**126**	Q	80-120	0		20

INORGANICS
&
MISCELLANEOUS

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-01
Client ID: SP-1-8"-071117
Sample Location: BUFFALO, NY
Matrix: Soil

Date Collected: 07/11/17 09:40
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.7		%	0.100	NA	1	-	07/12/17 17:40	121,2540G	RI

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-02
Client ID: SP-1-0.5-8-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Date Collected: 07/11/17 09:40
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.8		%	0.100	NA	1	-	07/12/17 17:40	121,2540G	RI
Cyanide, Total	0.93	J	mg/kg	1.2	0.20	1	07/13/17 12:50	07/13/17 15:59	1,9010C/9012B	LK

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-03
Client ID: SP-2-3.5-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Date Collected: 07/11/17 10:10
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.4		%	0.100	NA	1	-	07/12/17 17:40	121,2540G	RI
Cyanide, Total	0.36	J	mg/kg	1.2	0.20	1	07/13/17 12:50	07/13/17 16:00	1,9010C/9012B	LK

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-04
Client ID: SP-3-2-071117
Sample Location: BUFFALO, NY
Matrix: Soil

Date Collected: 07/11/17 10:30
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.4		%	0.100	NA	1	-	07/12/17 17:40	121,2540G	RI

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-05
Client ID: SP-3-1-8-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Date Collected: 07/11/17 10:30
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.5		%	0.100	NA	1	-	07/12/17 17:40	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.20	1	07/13/17 12:50	07/13/17 16:02	1,9010C/9012B	LK

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-06
Client ID: SP-5-1-071117
Sample Location: BUFFALO, NY
Matrix: Soil

Date Collected: 07/11/17 11:15
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.8		%	0.100	NA	1	-	07/12/17 17:40	121,2540G	RI

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-07
Client ID: SP-5-1-8-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Date Collected: 07/11/17 11:15
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.3		%	0.100	NA	1	-	07/13/17 11:22	121,2540G	RI
Cyanide, Total	ND		mg/kg	2.4	0.40	2	07/13/17 12:50	07/13/17 16:23	1,9010C/9012B	LK

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-08
Client ID: SP-6-0.5-071117
Sample Location: BUFFALO, NY
Matrix: Soil

Date Collected: 07/11/17 11:40
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.2		%	0.100	NA	1	-	07/12/17 17:40	121,2540G	RI

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-09
Client ID: SP-6-0-1-071117
Sample Location: BUFFALO, NY
Matrix: Soil

Date Collected: 07/11/17 11:40
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.5		%	0.100	NA	1	-	07/12/17 17:40	121,2540G	RI
Cyanide, Total	0.91	J	mg/kg	1.1	0.18	1	07/13/17 12:50	07/13/17 16:05	1,9010C/9012B	LK

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-10
Client ID: SP-7-4-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Date Collected: 07/11/17 12:30
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.9		%	0.100	NA	1	-	07/12/17 17:40	121,2540G	RI

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-11
Client ID: SP-7-4-8-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Date Collected: 07/11/17 12:30
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.6		%	0.100	NA	1	-	07/13/17 11:22	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.19	1	07/13/17 12:50	07/13/17 16:06	1,9010C/9012B	LK

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-12
Client ID: SP-8-0.5-071117
Sample Location: BUFFALO, NY
Matrix: Soil

Date Collected: 07/11/17 13:00
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.8		%	0.100	NA	1	-	07/13/17 11:22	121,2540G	RI

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-13
Client ID: SP-8-0-1-071117
Sample Location: BUFFALO, NY
Matrix: Soil

Date Collected: 07/11/17 13:00
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.8		%	0.100	NA	1	-	07/13/17 11:22	121,2540G	RI
Cyanide, Total	8.4		mg/kg	1.0	0.17	1	07/13/17 12:50	07/13/17 16:07	1,9010C/9012B	LK

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-14
Client ID: SP-9-2-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Date Collected: 07/11/17 13:20
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.5		%	0.100	NA	1	-	07/13/17 11:22	121,2540G	RI

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-15
Client ID: SP-9-0-13-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Date Collected: 07/11/17 13:20
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.0		%	0.100	NA	1	-	07/13/17 11:22	121,2540G	RI
Cyanide, Total	0.53	J	mg/kg	2.2	0.37	2	07/13/17 12:50	07/13/17 16:21	1,9010C/9012B	LK

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-16
Client ID: SP-10-4-071117
Sample Location: BUFFALO, NY
Matrix: Soil

Date Collected: 07/11/17 13:50
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.0		%	0.100	NA	1	-	07/13/17 11:22	121,2540G	RI

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-17
Client ID: SP-10-0-4.5-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Date Collected: 07/11/17 13:50
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.7		%	0.100	NA	1	-	07/13/17 11:22	121,2540G	RI
Cyanide, Total	0.68	J	mg/kg	2.0	0.33	2	07/13/17 12:50	07/13/17 16:22	1,9010C/9012B	LK

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-18
Client ID: SP-11-3-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Date Collected: 07/11/17 14:20
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.4		%	0.100	NA	1	-	07/13/17 11:22	121,2540G	RI

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-19
Client ID: SP-11-0.5-4.5-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Date Collected: 07/11/17 14:20
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.4		%	0.100	NA	1	-	07/13/17 11:22	121,2540G	RI
Cyanide, Total	ND		mg/kg	2.2	0.36	2	07/13/17 12:50	07/13/17 16:23	1,9010C/9012B	LK

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-20
Client ID: SP-12-1.5-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Date Collected: 07/11/17 14:45
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.0		%	0.100	NA	1	-	07/13/17 11:22	121,2540G	RI

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-21
Client ID: SP-12-0-3-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Date Collected: 07/11/17 14:45
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.4		%	0.100	NA	1	-	07/13/17 11:22	121,2540G	RI
Cyanide, Total	1.6		mg/kg	1.2	0.20	1	07/14/17 10:40	07/14/17 13:41	1,9010C/9012B	LK

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-22
Client ID: SP-13-4.5-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Date Collected: 07/11/17 15:15
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	72.8		%	0.100	NA	1	-	07/13/17 11:22	121,2540G	RI

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-23
Client ID: SP-13-0-4.5-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Date Collected: 07/11/17 15:15
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.3		%	0.100	NA	1	-	07/13/17 11:22	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.20	1	07/14/17 10:40	07/14/17 13:42	1,9010C/9012B	LK

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-24
Client ID: SUBSURFACE DUPLICATE -071117
Sample Location: BUFFALO, NY
Matrix: Soil
Date Collected: 07/11/17 00:00
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.6		%	0.100	NA	1	-	07/13/17 11:22	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.20	1	07/14/17 10:40	07/14/17 13:44	1,9010C/9012B	LK

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-27
Client ID: SS-1-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Date Collected: 07/11/17 15:50
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.7		%	0.100	NA	1	-	07/13/17 10:52	121,2540G	RI
Cyanide, Total	0.80	J	mg/kg	1.1	0.18	1	07/14/17 10:40	07/14/17 13:45	1,9010C/9012B	LK

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-28
Client ID: SS-2-071117
Sample Location: BUFFALO, NY
Matrix: Soil

Date Collected: 07/11/17 15:55
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.3		%	0.100	NA	1	-	07/13/17 10:52	121,2540G	RI
Cyanide, Total	0.35	J	mg/kg	1.1	0.18	1	07/14/17 10:40	07/14/17 13:48	1,9010C/9012B	LK

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-29
Client ID: SS-3-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Date Collected: 07/11/17 16:00
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.4		%	0.100	NA	1	-	07/13/17 10:52	121,2540G	RI
Cyanide, Total	0.18	J	mg/kg	1.0	0.17	1	07/14/17 10:40	07/14/17 13:48	1,9010C/9012B	LK

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-30
Client ID: SS-4-071117
Sample Location: BUFFALO, NY
Matrix: Soil
Date Collected: 07/11/17 16:10
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	97.4		%	0.100	NA	1	-	07/13/17 10:52	121,2540G	RI
Cyanide, Total	0.27	J	mg/kg	1.0	0.16	1	07/14/17 10:40	07/14/17 13:49	1,9010C/9012B	LK

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10
Lab Number: L1723613
Report Date: 07/19/17

SAMPLE RESULTS

Lab ID: L1723613-31
Client ID: SURFACE SOIL DUPLICATE
Sample Location: BUFFALO, NY
Matrix: Soil

Date Collected: 07/11/17 00:00
Date Received: 07/11/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.6		%	0.100	NA	1	-	07/13/17 10:52	121,2540G	RI
Cyanide, Total	0.24	J	mg/kg	1.0	0.17	1	07/14/17 10:40	07/14/17 13:50	1,9010C/9012B	LK

Project Name: PIERCE ARROW APARTMENTS **Lab Number:** L1723613

Project Number: 56831.10 **Report Date:** 07/19/17

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): 02-03 Batch: WG1022226-1										
Cyanide, Total	ND		mg/kg	0.86	0.14	1	07/13/17 12:50	07/13/17 15:24	1,9010C/9012B	LK
General Chemistry - Westborough Lab for sample(s): 05,07,09,11,13,15,17,19 Batch: WG1022230-1										
Cyanide, Total	ND		mg/kg	0.86	0.14	1	07/13/17 12:50	07/13/17 15:23	1,9010C/9012B	LK
General Chemistry - Westborough Lab for sample(s): 21,23-24,27-31 Batch: WG1022567-1										
Cyanide, Total	ND		mg/kg	0.94	0.16	1	07/14/17 10:40	07/14/17 13:27	1,9010C/9012B	LK

Lab Control Sample Analysis

Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS

Project Number: 56831.10

Lab Number: L1723613

Report Date: 07/19/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-03 Batch: WG1022226-2 WG1022226-3								
Cyanide, Total	**136**	Q	95		80-120	29		35
General Chemistry - Westborough Lab Associated sample(s): 05,07,09,11,13,15,17,19 Batch: WG1022230-2 WG1022230-3								
Cyanide, Total	**136**	Q	96		80-120	27		35
General Chemistry - Westborough Lab Associated sample(s): 21,23-24,27-31 Batch: WG1022567-2 WG1022567-3								
Cyanide, Total	118		**124**	Q	80-120	4		35

Matrix Spike Analysis
Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10

Lab Number: L1723613
Report Date: 07/19/17

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): 02-03 QC Batch ID: WG1022226-4 WG1022226-5 QC Sample: L1723404-01 Client ID: MS Sample												
Cyanide, Total	0.78J	11	11	89		12	96		75-125	9		35
General Chemistry - Westborough Lab Associated sample(s): 05,07,09,11,13,15,17,19 QC Batch ID: WG1022230-4 WG1022230-5 QC Sample: L1723613-05 Client ID: SP-3-1-8-071117												
Cyanide, Total	ND	12	11	89		12	99		75-125	9		35
General Chemistry - Westborough Lab Associated sample(s): 21,23-24,27-31 QC Batch ID: WG1022567-4 WG1022567-5 QC Sample: L1723613-27 Client ID: SS-1-071117												
Cyanide, Total	0.80J	12	13	100		11	94		75-125	17		35

Lab Duplicate Analysis
Batch Quality Control

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10

Lab Number: L1723613
Report Date: 07/19/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06,08-10 QC Batch ID: WG1021937-1 QC Sample: L1723613-05 Client ID: SP-3-1-8-071117						
Solids, Total	80.5	82.5	%	2		20
General Chemistry - Westborough Lab Associated sample(s): 07,11-24 QC Batch ID: WG1022198-1 QC Sample: L1723613-07 Client ID: SP-5-1-8-071117						
Solids, Total	78.3	77.7	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 27-31 QC Batch ID: WG1022212-1 QC Sample: L1723613-27 Client ID: SS-1-071117						
Solids, Total	83.7	84.3	%	1		20

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10

Lab Number: L1723613
Report Date: 07/19/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1723613-01A	Vial MeOH preserved	B	NA		4.2	Y	Absent		NYTCL-8260HLW(14)
L1723613-01B	Vial water preserved	B	NA		4.2	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-01C	Vial water preserved	B	NA		4.2	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-01D	Plastic 2oz unpreserved for TS	B	NA		4.2	Y	Absent		TS(7)
L1723613-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-02B	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TS(7)
L1723613-03A	Vial MeOH preserved	B	NA		4.2	Y	Absent		NYTCL-8260HLW(14)
L1723613-03B	Vial water preserved	B	NA		4.2	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-03C	Vial water preserved	B	NA		4.2	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-03D	Plastic 2oz unpreserved for TS	B	NA		4.2	Y	Absent		TS(7)
L1723613-03E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-03F	Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),NYTCL-8082(14)
L1723613-03G	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),NYTCL-8082(14)
L1723613-04A	Vial MeOH preserved	B	NA		4.2	Y	Absent		NYTCL-8260HLW(14)
L1723613-04A1	Vial MeOH preserved	B	NA		4.2	Y	Absent		NYTCL-8260HLW(14)
L1723613-04A2	Vial MeOH preserved	B	NA		4.2	Y	Absent		NYTCL-8260HLW(14)
L1723613-04B	Vial water preserved	B	NA		4.2	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-04B1	Vial water preserved	B	NA		4.2	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-04B2	Vial water preserved	B	NA		4.2	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10

Lab Number: L1723613
Report Date: 07/19/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1723613-04C	Vial water preserved	B	NA		4.2	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-04C1	Vial water preserved	B	NA		4.2	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-04C2	Vial water preserved	B	NA		4.2	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-04D	Plastic 2oz unpreserved for TS	B	NA		4.2	Y	Absent		TS(7)
L1723613-04D1	Plastic 2oz unpreserved for TS	B	NA		4.2	Y	Absent		TS(7)
L1723613-04D2	Plastic 2oz unpreserved for TS	B	NA		4.2	Y	Absent		TS(7)
L1723613-05A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-05A1	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-05A2	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-05B	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TS(7)
L1723613-05B1	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TS(7)
L1723613-05B2	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TS(7)
L1723613-06A	Vial MeOH preserved	A	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L1723613-06B	Vial water preserved	B	NA		4.2	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-06C	Vial water preserved	B	NA		4.2	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-06D	Plastic 2oz unpreserved for TS	B	NA		4.2	Y	Absent		TS(7)
L1723613-07A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-07B	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TS(7)
L1723613-08A	Vial MeOH preserved	A	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L1723613-08B	Vial water preserved	A	NA		4.7	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-08C	Vial water preserved	A	NA		4.7	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-08D	Plastic 2oz unpreserved for TS	A	NA		4.7	Y	Absent		TS(7)
L1723613-09A	Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10

Lab Number: L1723613
Report Date: 07/19/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1723613-09B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-09C	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),NYTCL-8082(14)
L1723613-10A	Vial MeOH preserved	A	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L1723613-10B	Vial water preserved	A	NA		4.7	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-10C	Vial water preserved	A	NA		4.7	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-10D	Plastic 2oz unpreserved for TS	A	NA		4.7	Y	Absent		TS(7)
L1723613-11A	Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		TS(7)
L1723613-11B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-11C	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),NYTCL-8082(14)
L1723613-12A	Vial MeOH preserved	A	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L1723613-12B	Vial water preserved	A	NA		4.7	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-12C	Vial water preserved	A	NA		4.7	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-12D	Plastic 2oz unpreserved for TS	A	NA		4.7	Y	Absent		TS(7)
L1723613-13A	Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		TS(7)
L1723613-13B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-13C	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),NYTCL-8082(14)
L1723613-14A	Vial MeOH preserved	A	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L1723613-14B	Vial water preserved	A	NA		4.7	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-14C	Vial water preserved	A	NA		4.7	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-14D	Plastic 2oz unpreserved for TS	A	NA		4.7	Y	Absent		TS(7)
L1723613-15A	Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		TS(7)
L1723613-15B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-15C	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),NYTCL-8082(14)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1723613-16A	Vial MeOH preserved	A	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L1723613-16B	Vial water preserved	A	NA		4.7	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-16C	Vial water preserved	A	NA		4.7	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-16D	Plastic 2oz unpreserved for TS	A	NA		4.7	Y	Absent		TS(7)
L1723613-17A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-17B	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TS(7)
L1723613-18A	Vial MeOH preserved	B	NA		4.2	Y	Absent		NYTCL-8260HLW(14)
L1723613-18B	Vial water preserved	B	NA		4.2	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-18C	Vial water preserved	B	NA		4.2	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-18D	Plastic 2oz unpreserved for TS	B	NA		4.2	Y	Absent		TS(7)
L1723613-19A	Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		TS(7)
L1723613-19B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-19C	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),NYTCL-8082(14)
L1723613-20A	Vial MeOH preserved	A	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L1723613-20B	Vial water preserved	A	NA		4.7	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-20C	Vial water preserved	A	NA		4.7	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-20D	Plastic 2oz unpreserved for TS	A	NA		4.7	Y	Absent		TS(7)
L1723613-21A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-21B	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TS(7)
L1723613-22A	Vial MeOH preserved	B	NA		4.2	Y	Absent		NYTCL-8260HLW(14)
L1723613-22B	Vial water preserved	B	NA		4.2	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-22C	Vial water preserved	B	NA		4.2	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-22D	Plastic 2oz unpreserved for TS	B	NA		4.2	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10

Lab Number: L1723613
Report Date: 07/19/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1723613-23A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-23B	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TS(7)
L1723613-24A	Vial MeOH preserved	A	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L1723613-24B	Vial water preserved	A	NA		4.7	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-24C	Vial water preserved	A	NA		4.7	Y	Absent	12-JUL-17 07:54	NYTCL-8260HLW(14)
L1723613-24D	Plastic 2oz unpreserved for TS	A	NA		4.7	Y	Absent		TS(7)
L1723613-24E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-24F	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		-
L1723613-25A	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260(14)
L1723613-25B	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260(14)
L1723613-25C	Vial HCl preserved	A	NA		4.7	Y	Absent		NYTCL-8260(14)
L1723613-25D	Amber 1000ml unpreserved	B	7	7	4.2	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1723613-26A	Vial HCl preserved	B	NA		4.2	Y	Absent		NYTCL-8260(14)
L1723613-26B	Vial HCl preserved	B	NA		4.2	Y	Absent		NYTCL-8260(14)
L1723613-26C	Vial HCl preserved	B	NA		4.2	Y	Absent		NYTCL-8260(14)
L1723613-26D	Amber 1000ml unpreserved	B	8	8	4.2	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1723613-27A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-27A1	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-27A2	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-27B	Glass 120ml/4oz unpreserved	B	NA		4.2	Y	Absent		NYTCL-8270(14),TS(7)
L1723613-27B1	Glass 120ml/4oz unpreserved	B	NA		4.2	Y	Absent		NYTCL-8270(14),TS(7)

*Values in parentheses indicate holding time in days

Project Name: PIERCE ARROW APARTMENTS
Project Number: 56831.10

Lab Number: L1723613
Report Date: 07/19/17

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1723613-27B2	Glass 120ml/4oz unpreserved	B	NA		4.2	Y	Absent		NYTCL-8270(14),TS(7)
L1723613-28A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-28B	Glass 120ml/4oz unpreserved	B	NA		4.2	Y	Absent		NYTCL-8270(14),TS(7)
L1723613-29A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-29B	Glass 120ml/4oz unpreserved	B	NA		4.2	Y	Absent		NYTCL-8270(14),TS(7)
L1723613-30A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-30B	Glass 120ml/4oz unpreserved	B	NA		4.2	Y	Absent		NYTCL-8270(14),TS(7)
L1723613-31A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1723613-31B	Glass 120ml/4oz unpreserved	B	NA		4.2	Y	Absent		NYTCL-8270(14),TS(7)

*Values in parentheses indicate holding time in days

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Project Number:	56831.10	**Report Date:**	07/19/17

GLOSSARY

Acronyms

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).
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.
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.
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.
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.
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.

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.

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'.

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.

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 Condensation Product".
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

Report Format: DU Report with 'J' Qualifiers

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Data Qualifiers

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.

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.

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

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.

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 Identified Compounds (TICs).

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

Report Format: DU Report with 'J' Qualifiers

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REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

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: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
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.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: 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**
EPA 332: Perchlorate; **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, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, 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 624: Volatile Halocarbons & Aromatics,
EPA 608: 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: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

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, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

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FAX: 508-822-9288

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 3

Date Rec'd in Lab: 7/12/17

ALPHA Job #: L1723613

Client Information

Client: GZA
Address: 535 Washington St. Buffalo, NY
Phone: 716 6852300
Fax:
Email: james.richert@gza.com

Project Information

Project Name: Pierce Arrow Apartments
Project Location: Buffalo, NY
Project #: 56831.10
(Use Project name as Project #) ☐
Project Manager: James Richert
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	VOC 8260 TCL & CP-51	SVOC 8270	Metals Part 375	PCBs	Total Bottle	Sample Specific Comments
23613-01	SP-1-8"-071117	7/11/17	940	Soil	JB	X					
-02	SP-1-0.5-8-071117		940				X	X			
-03	SP-2-3.5-071117		1010			X	X	X	X		
-04	SP-3-2-071117		1030			X					MS/MSD
-05	SP-3-1-8-071117		1030				X	X			MS/MSD
-06	SP-5-1-071117		1115			X					
-07	SP-5-1-8-071117		1115				X	X			
-08	SP-6-0.5-071117		1140			X					
-09	SP-6-0-1-071117		1140				X	X	X		
-10	SP-7-4-071117		1230			X					

Container Type
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
Thomas Bolan	7/11/17 1745	Fed Ex for AAC	7/11/17 1745
Fed Ex for AAC	7/11/17 1745	Danielle Matt	7/12/17 0105

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)

ALPHA ANALYTICAL

NEW YORK CHAIN OF CUSTODY

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
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Page 2 of 3

Date Rec'd in Lab: 7/12/17

ALPHA Job #: L1723613

Project Information

Project Name: Pierce Arrow Apartments
Project Location: Buffalo, NY
Project #: 56831.10
(Use Project name as Project #) ☐
Project Manager: James Richert
ALPHAQuote #:

Turn-Around Time

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

Client Information

Client: GZA
Address: 535 Washington St
Buffalo, NY
Phone: 716-685-2300
Fax:
Email: james.richert@gza.com

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

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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	VOC 8260 TCL + CP-51	SVOC 8270	Metals Part 375	PCBs					Sample Specific Comments	Total Bottles
23613-11	SP-7-4-8-071117	7/11/17	1230	Soil	TB		X	X	X						
-12	SP-8-0.5-071117	7/11/17	1300	↓	↓	X									
-13	SP-8-0-1-071117	↓	1300	↓	↓		X	X	X						
-14	SP-9-2-071117	↓	1320	↓	↓	X									
-15	SP-9-0-13-071117	↓	1320	↓	↓		X	X	X						
-16	SP-10-4-071117	↓	1350	↓	↓	X									
-17	SP-10-0-4.5-071117	↓	1350	↓	↓		X	X							
-18	SP-11-3-071117	↓	1420	↓	↓	X									
-19	SP-11-0.5-4.5-071117	↓	1420	↓	↓		X	X	X						
-20	SP-12-1.5-071117	↓	1445	↓	↓	X									

Container Type
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
Thomas Bohen	7/11/17 1745	Eric Snyder AAL	7/11/17 1745
Eric Snyder AAL	7/11/17 1745	Kamelle Mott	7/12/17 01:05

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Date Rec'd in Lab: 7/12/17

ALPHA Job #: L1723613

Project Information
Project Name: Pierce Arrow Apartments
Project Location: Buffalo, NY
Project #: 56 831, 10
(Use Project name as Project #) ☐
Project Manager: James Richert
ALPHAQuote #:

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

Client Information
Client: GZA
Address: 535 Washington Buffalo, NY
Phone: 716-685-2300
Fax:
Email: james.richert@gza.com

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
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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	8260 VOC TCL CP-51	8270 SVOC	Metals Part 375	PCBs					Sample Specific Comments	Total Bottles
23613-21	SP-10-0-3-071117	7/11/17	1445	Soil	JS		X	X							
-22	SP-13-4.5-071117	↓	1515	↓	↓	X									
-23	SP-13-0-4.5-071117		1515	↓			X	X							
-24	Subsurface Duplicate-071117		—	Soil		X	X	X							
-25	SP-9-GW-071117		1530	GW		X	X								
-26	SP-13-GW-071117		1545	GW		X	X								
-27	SS-1-071117		1550 ~~1700~~	Soil			X	X						MS/MSD	
-28	SS-2-071117		1555				X	X							
-29	SS-3-071117		1600				X	X							
~~-30~~	~~SS-4-071117~~		~~1610~~												
-31	Surface Soil Duplicate	↓		↓	↓		X	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
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O = Other
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D = BOD Bottle

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

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
Thomas Bohlen	7/11/17 1745	Eric S... AAL	7/11/17 1745
Eric S... AAL	7/11/17 1745	Danielle Matt	7/12/17 01:05

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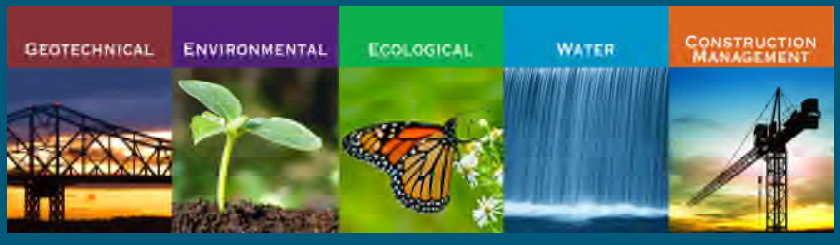

GZA GeoEnvironmental, Inc.