

**EXHIBIT N – COMPREHENSIVE SITE INVESTIGATION REPORT/REMEDATION OBJECTIVES  
REPORT/REMEDIAL ACTION PLAN (DRAFT)**

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## **Comprehensive Site Investigation Report / Remediation Objectives Report / Remedial Action Plan**

Remediation Site:

**Proposed Engine Company 115 - Site B  
Northwest Corner of S. Morgan St. and W. 119<sup>th</sup> St.  
Chicago, Illinois 60643**

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Prepared For:

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## 1.0 Executive Summary

Carnow, Conibear and Assoc., Ltd. (Carnow Conibear) was retained by Public Building Commission of Chicago (PBCC) to perform Site Remediation Program (SRP) investigation and reporting activities for the property known as the Proposed Engine Company 115 – Site B in Chicago, Illinois (Remediation Site). Currently the Remediation Site is a vacant 2.763-acre parcel which was most recently used as a paved parking lot. Proposed development is for a new fire station with a paved parking lot on the north and west side, detention ponds on the far north and east sides, and driveways located on the southern portion of the Remediation Site.

This Comprehensive Site Investigation, Remediation Objectives Report, and Remedial Action Plan (CSI/ROR/RAP) summarizes the site investigation results, remediation objectives, and planned remedial activities for the Remediation Site. The purpose of enrolling the Remediation Site into the SRP is to obtain a comprehensive No Further Remediation (NFR) letter from the Illinois Environmental Protection Agency (IEPA) after the proposed remediation is complete and the Remedial Action Completion Report (RACR) is submitted and approved.

In August 1999, Camp Dresser & McKee Inc., (CDM) performed a Phase II Investigation at the West Pullman Industrial Redevelopment Area – East Ingersoll Property, which includes the Remediation Site, to investigate potential impacts from historic site use and underground storage tanks (USTs). Results showed that various contaminants were present onsite and warranted additional investigation.

Carnow Conibear completed a Phase I Environmental Site Assessment (ESA) for the East Ingersoll Property, which included the Remediation Site in November 2018. Based on the findings, the presence of confirmed contamination and potential surface impacts that had not been investigated were identified as Recognized Environmental Conditions (RECs). Historical use of the northern portion of the Remediation site as a railroad car works yard has potential impacts to the soils, soil vapor, and/or groundwater as a result of the use of creosote, pesticides, fuels, lubricants, paints and/or oils; the unknown status of a potential UST near the eastern boundary; and the potential migration of contamination from west and south adjacent properties represent RECs to the Remediation Site.

Carnow Conibear performed soil and groundwater sampling throughout the Remediation Site in October and November 2018 to comprehensively investigate the nature and extent of contamination and supplement the findings of the Phase II Investigation. Soil boring locations were selected to address the identified RECs and achieve spatial coverage to fully characterize surface and subsurface conditions across the Remediation Site. A general soil profile of asphalt and fill materials underlain by fine silty sand from 4 to 8 feet below ground surface (bgs), and silty clay from 8 to at least 15 feet bgs was encountered during the investigation. Groundwater was encountered in the silty sand layer at a depth of 3 to 8 feet bgs with an average depth to water of 6 feet bgs.

CDM submitted 20 soil samples for analysis during the Phase II Investigation as part of a larger investigation. 10 samples were included within the Remediation Site, other samples were collected offsite or below the observed groundwater level and not used in this CSI/ROR/RAP. Carnow Conibear submitted 52 soil samples, 1 composite waste characterization soil sample, and 3 groundwater samples for analysis during a larger investigation. 36 soil samples, 2

groundwater samples, and 1 composite waste characterization soil sample were included within the Remediation Site, other samples were collected offsite and not used in this CSI/ROR/RAP.

Analytical results were evaluated using Tier 1 Soil Remediation Objectives (SROs) and Groundwater Remediation Objectives (GROs) promulgated in Illinois Administrative Code Title 35 Part 742 (35 IAC 742), as modified by applicable background concentrations of polynuclear aromatic hydrocarbons (PNAs) and inorganics. Based on local groundwater conditions and the proposed use of the property as a fire station, exposure routes for the residential, construction worker and Class II groundwater scenarios are applicable at the Remediation Site.

Review of the analytical data indicated that PNAs, lead, arsenic and mercury are present at the Remediation Site in exceedance of applicable Tier 1 SROs for the residential soil ingestion, construction worker soil ingestion, construction worker outdoor inhalation, and/or Class II soil component of groundwater ingestion (SCGW) exposure routes.

A Tier 2 evaluation was utilized to exclude the Class II SCGW exposure route. Remediation of the identified impacts for other applicable exposure scenarios will be achieved through a combination of the following:

- Limited excavation, removal, and offsite disposal at a licensed landfill of soils exceeding Tier 1 SROs;
- Installation of engineered barriers;
- Designation of a construction worker caution area; and
- Implementation of institutional controls.

Engineered barriers will consist of building slabs/foundations, asphalt or concrete pavement, or a minimum of three feet of imported clean fill material. Two alternative engineered barriers have also been proposed consisting of 1) a minimum of two feet of clean fill material underlain by geotextile fabric in landscape areas and 2) a minimum twelve inches of clean fill material underlain by geotextile fabric in the bottom of the detention pond areas.

Institutional controls will include a requirement that engineered barriers are effectively maintained; implementation of a Site-Specific Health & Safety Plan during proposed and future construction activities; and restriction of onsite potable water wells in accordance with the local groundwater ordinance. Removal of the potential naphtha UST is also proposed during redevelopment activities.

Upon completion of the Remedial Action Plan (RAP), all potential exposure routes at the Remediation Site will be excluded from further consideration in accordance with 35 IAC 742 requirements, and a No Further Remediation (NFR) letter will be requested from IEPA.

*The Executive Summary is intended to provide a brief summary of the findings of the site investigation. The entire report must be read in order to fully understand the findings and potential environmental concerns associated with the site; therefore, the Executive Summary should not be substituted in lieu of reading the entire report.*

## 2.0 Introduction

The Public Building Commission of Chicago (PBCC) retained Carnow, Conibear & Assoc., Ltd. (Carnow Conibear) to perform Site Remediation Program (SRP) investigation and reporting activities for the property located at the northwest corner of S. Morgan St. and W. 119<sup>th</sup> St., in Chicago, Illinois (Remediation Site). **Exhibit I** depicts the location of the Remediation Site on a topographic map.

This location was formerly known as the East Ingersoll Property and is slightly larger than the Remediation Site. Previous investigations by CDM and Carnow Conibear included the entire East Ingersoll Property. The northern quarter of the East Ingersoll Property is not part of the Remediation Site. The CDM report and raw laboratory data in this report include samples collected from the northern quarter but had been eliminated from all other areas of the report.

The Remediation Site is currently vacant with sparse vegetation and was most recently used as a paved parking lot. The Remediation Site is slated for redevelopment as the Engine Company 115. This Comprehensive Site Investigation, Remediation Objectives Report, and Remedial Action Plan (CSI/ROR/RAP) summarizes the site investigation results, remediation objectives, and planned remedial activities for the Remediation Site. The objective is to obtain a comprehensive No Further Remediation (NFR) letter from the Illinois Environmental Protection Agency (IEPA) after the proposed remediation is complete and the Remedial Action Completion Report (RACR) is submitted and approved.

### 2.1 Site Background

Currently, the Remediation Site consists of a vacant asphalt lot surrounded by a metal fence on the south, east and west sides and a vacant asphalt lot to the north. Vegetation surrounds the property along the fence line as well as large trees located on the northern portion of the Remediation Site. Proposed redevelopment plans consist of demolition of the asphalt lot and removal of the current vegetation.

Historical information indicates that the Remediation Site was developed by the West Pullman Car Works Morgan St. Yards by 1911, which included railroad tracks, an underground storage tank (UST), a blacksmith, store room, and a Paints & Oils building. By 1939, all of the previous structures associated with the West Pullman Car Works Morgan St. Yards were no longer present. By 1989, the subject site was labeled as a parking lot. No significant changes have occurred since 1989.

This CSI/ROR/RAP report documents the activities conducted to investigate impacts at the Remediation Site. An endangerment assessment and proposed remedial activities are presented to address the contaminants of concern (COCs).



## 3.0 Site Characterization

### 3.1 Documents/Sources Reviewed

Carnow Conibear utilized the following sources for this investigation:

- *Phase II Investigation Report*, prepared by Camp Dresser & McKee Inc., dated August 6, 1999;
- *Phase I Environmental Site Assessment*, prepared by Carnow Conibear, dated November 7, 2018.
- *Ground Penetrating Radar and Electromagnetic Induction Survey*, prepared by Carnow Conibear, dated December 26, 2018.
- *Test Pit Investigation Report*, prepared by Carnow Conibear, dated December 26, 2018.

Copies of the Camp Dresser & McKee Inc., (CDM) Phase II Investigation and Carnow Conibear Phase I Environmental Site Assessment (ESA) have been provided to the IEPA for reference. Pertinent activities and findings of the previous assessments have been included within this report.

### 3.2 Site History

CDM completed a Phase II Investigation for the Remediation Site in August 1999 to address the Recognized Environmental Conditions (RECs) identified in a Phase I ESA dated May 1996 written by Harza Environmental Services, Inc. Historical sources indicated previous long-term use of the Remediation Site as the West Pullman Car Works Morgan St. Yard which included railroad tracks and a paint and oil building. 1911 Sanborn Maps identified a 150-gallon naphtha UST located on the eastern boundary along South Morgan Street. The potential for impacts from historical operations and various documented and suspect UST were identified as RECs. CDM advanced 18 soil borings during the Phase II Investigation as part of a larger investigation; only 12 soil borings were located on the Remediation Site. Results showed that various contaminants were present at the Remediation Site.

Carnow Conibear completed a Phase I ESA for the Remediation Site on November 7, 2018. Historically, the Remediation Site was developed by the West Pullman Car Works Morgan St. Yard by 1911, which included railroad tracks, an UST, locomotive house, and a Paints and Oils building. Based on the findings of the Phase I ESA, the presence of documented subsurface contamination which was not fully defined during the CDM Phase II Investigation and potential surface impacts which were not investigated were identified as RECs. **Exhibit II** presents a Site Features Map depicting the areas of environmental concern based on information from the Phase I ESA.

### 3.3 Physical Setting

According to the United States Geological Survey (USGS) Topographic Map Blue Island, Illinois dated 2000, the Remediation Site is located in Section 20, Township 37 North, Range 14 East of the Third Principal Meridian in Cook County, Illinois. **Exhibit I** depicts the Remediation Site's location on the USGS Topographic Map.

The Remediation Site totals 2.763 acres and is identified by Property Index Number (PIN) 25-20-414-006-0000. A legal description for the Remediation Site is provided as follows:

THAT PART WEST OF THE WEST ½ OF THE SOUTHEAST ¼ OF SECTION 20, TOWNSHIP 37 NORTH, RANGE 14, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS, DESCRIBED AS FOLLOWS:

BEGINNING AT THE POINT MARKED BY A STONE, 3643.68 FEET EAST OF THE POINT WHERE THE NORTH LINE OF WEST 119<sup>TH</sup> STREET IS BISECTED BY THE EAST LINE OF SOUTH ASHLAND AVENUE, (AS EXISTING ON THE 24<sup>TH</sup> DAY OF JULY, 1924); SAID POINT BEING 283.44 FEET WEST OF THE WEST LINE OF SOUTH MORGAN STREET, THENCE NORTH ON A LINE FORMING AN ANGLE OF 89 DEGREES 56 MINUTES WEST TO THE LAST DESCRIBED LINE MEASURED IN THE FOURTH QUADRANT, 425.00 FEET TO A LINE THAT IS 425.00 FEET NORTH, AS MEASURED AT RIGHT ANGLES TO, THE NORTH LINE OF SAID WEST 119<sup>TH</sup> STREET; THENCE SOUTH ALONG THE WEST LINE OF SAID MORGAN STREET, 425.01 FEET TO THE NORTH LINE OF WEST 119<sup>TH</sup> STREET; THENCE WEST ON THE NORTH LINE OF WEST 119<sup>TH</sup> STREET, 283.44 FEET TO THE POINT OF BEGINNING.

CONTAINING 2.763 ACRES OR 120,338 SQ. FT MORE OR LESS.

Current uses of adjacent properties are listed below in **Table A**.

**Table A – Adjacent Property Uses**

Adjacent Properties	
<b>North</b>	Vacant land (other portion of former East Ingersoll Property), beyond which are residential properties and a park across W. 118 <sup>th</sup> St.
<b>East</b>	S. Morgan St., beyond which are residential and commercial properties.
<b>West</b>	An automotive parts manufacturing facility.
<b>South</b>	Vacant former commercial and industrial properties across W. 119 <sup>th</sup> St.

### 3.3.1 Regional & Site Topography

Topography of the Remediation Site and adjacent properties is relatively level, with no significant natural relief features. According to the USGS 7.5-minute topographic quadrangle for Blue Island, Illinois dated 2012, the elevation in the vicinity of the Remediation Site is approximately 613 feet above mean sea level.

### 3.3.2 Regional Geology & Hydrogeology

Surficial geology at the subject site is mapped in both the Cahokia Formation and the Wadsworth Formation of the Wedron Group. The Cahokia Formation consists of modern floodplain and stream-channel deposits of bedded, poorly-sorted silt and sand that locally

contains concentrations of sandy gravel. The Wadsworth Formation is a succession of calcareous gray, fine-textured till consisting mainly of clay, silt, and fine sand. Although most of the till beds in this formation appear relatively homogenous and massive, some contain silt laminae and sand lenses. Dominant pebble rock types are dolomite and shale (Hansel & Johnson, 1996, and Stiff, 2000.)

According to the Illinois Geological Survey Division, Circular 532, *Potential for Contamination of Shallow Aquifers in Illinois* - the "Berg Circular" (Berg, Kempton, and Cartwright, 1984):

- Plate 1, the site is located in a map area classified as 'B1'. This classification denotes the presence of sand and gravel at the surface in layers less than 20 feet thick, which are underlain by till or impermeable bedrock. Although the sand and gravel may be used for local well points, these deposits generally do not yield large quantities of water. The potential for contamination of surface water and groundwater in B1 areas is high. A hydraulic conductivity of about  $1 \times 10^{-3}$  cm/sec (high) makes these materials an excellent medium for transport of contaminants. Because water may flow along contacts between materials with different textures (e.g. through sand and gravel over dense bedrock) and discharge on slopes, there is also a potential for ground-to-surface water contamination in B1 areas.
- Plate 2, the site is located in a map area classified as 'C1'. This classification denotes that permeable bedrock occurs between 20 and 50 feet deep and that more than 20 feet of till or other fine-grained material overlies the bedrock. Although the till or fine-grained material may provide considerable protection to underlying aquifers, the contamination potential is fairly high in C1 areas.

Two primary aquifers are present in the Chicago metropolitan region. These aquifers are the shallow dolomite aquifer (which includes the bedrock strata directly underlying the unconsolidated glacial sediments) and the deep Cambrian-Ordovician Aquifer (which predominately consists of sandstone) and is isolated from the shallow dolomite aquifer by up to 250 feet of shale. Discontinuous glacial aquifers are also present in the Chicago region in the form of lacustrine sands (Dolton Member of the Equality Formation) and outwash sand and gravel (Henry and Wedron Formations) (Willman, 1971).

### 3.3.3 Site Geology & Hydrogeology

CDM advanced 12 soil borings to depth of 15 feet below ground surface (bgs) during the Phase II Investigation on the Remediation Site. Carnow Conibear supervised the advancement of 32 additional Geoprobe® soil borings to depths of 10 to 20 feet bgs. The following is a description of the soil profile encountered during the site investigation:

- Beneath overlying asphalt and/or concrete pavement, fill materials consisting of fine sands and sandy silts, crushed stone, crushed brick and cinders were encountered to depths of approximately 2 to 3 feet bgs.
- Beneath the fill materials, brown and/or gray mottled sandy silt and/or red to brown silty sand was encountered and transitioned to black silty sand around 3 to 4 feet bgs. This layer was underlain by tan, fine grained silty sand to a depth of approximately 6 to 7 feet bgs.

- Beneath the silty sand material, grey silty clay was encountered and increased the clay content with depth.

During drilling, the layer composed predominantly of the tan, silty sand between 5 to 7 feet bgs, was saturated. The grey, silty clay encountered around 8 to 20 feet bgs was not saturated.

Native soils encountered beneath surficial pavement and fill materials are consistent with the soil types in published geologic sources described in the previous section. Soil boring logs from the borings performed by Carnow Conibear are presented in **Appendix A**. Boring logs from the CDM investigation are provided in the Phase II Investigation report.

### *Groundwater Evaluation*

Pursuant to Title 35 Illinois Administrative Code (35 IAC) Part 620.220, there are four classifications for groundwater – Class I (Potable Resource Groundwater), Class II (General Resource Groundwater), Class III (Special Resource Water), and Class IV (Other Groundwater). Per 35 IAC 620.220, groundwater can be classified as Class II if it *does not* meet the criteria for Class I groundwater. Class I groundwater is defined in 35 IAC 620.210 as:

- *Groundwater located 10 feet below the land surface;*

Carnow Conibear advanced three groundwater monitoring wells at the Remediation Site and north adjacent property to depths of 15 feet bgs. Details regarding well installation, groundwater flow direction, and sampling protocols are discussed in **Section 4.0**.

Upon installation, each well was developed to ensure groundwater movement between the well and the subsurface materials. The wells were then allowed time to equilibrate, after which a water depth was measured by Carnow Conibear. Water levels were measured at 4.89, 2.18, and 2.87 feet bgs, respectively for an average depth of 3.31 feet bgs. These measurements show that groundwater was encountered within 10 feet of the land surface. Water level measurements were not specifically provided within the CDM Phase II Investigation, though water levels were documented at 3 to 8 feet bgs in the boring logs.

Groundwater levels provided on CDM and Carnow Conibear boring logs vary and are based on field observations of soil moisture. The static water levels measured in the monitoring wells are considered to provide a more accurate depth to water at the Remediation Site than moisture indications within the soil borings.

- *And within;*
  - *The minimum setback zone of a well which serves as a potable water supply and to the bottom of such well;*

A search of the IEPA Source Water Assessment Program (SWAP) and Illinois State Water Survey (ISWS) databases indicated that there are no Community Water Supply (CWS) wells within 2,500 feet of the Remediation Site. The ISWS data includes any information collected by the IEPA Division of Public Water Supply and Illinois Department of Public Health.

The source of all potable water in the City of Chicago is Lake Michigan. There are no potable water supply wells located within the City of Chicago, and the City has a groundwater ordinance and Memorandum of Understanding (MOU) with the IEPA prohibiting the installation and use of potable water wells.

A search of ISWS domestic wells was conducted for the Remediation Site and no results were found.

Based on the groundwater research documentation, this requirement has been satisfied. Information from the well searches and the City of Chicago groundwater ordinance can be viewed in **Appendix B**.

- *Unconsolidated sand, gravel, or sand and gravel which is 5 feet or more in thickness and that contains 12 percent or less fines;*

During the subsurface investigation, some areas showed continuous native sand layers at least five (5) feet in thickness.

- *Sandstone which is 10 feet or more in thickness, or fractured carbonate which is 15 feet or more in thickness; or*

During subsurface investigation, no sandstone or fractured carbonate was encountered.

- *Any geological material which is capable of sustained groundwater yield of 150 gallons a day or has a hydraulic conductivity of  $1 \times 10^{-4}$  cm/sec or greater.*

Based the Plate 1 of the Berg Circular, the materials in the area surrounding the Remediation Site are classified as "B1" and having a hydraulic conductivity of approximately  $1 \times 10^{-3}$  cm/sec.

Based on the demonstration, groundwater at the Remediation Site is designated as Class II groundwater since it is within ten feet of the land surface and will not be used as a potable water source. Therefore, the 35 IAC 742 Tier 1 Soil Remediation Objectives (SROs) and Groundwater Remediation Objectives (GROs) for Class II groundwater are applicable at the Remediation Site.

#### 3.3.4 Surface Water Bodies

No standing bodies of water were observed at the Remediation Site. The topographic map shows that the nearest surface water body is the Little Calumet River approximately 1.4 miles to the south.

#### 3.3.5 Wetlands

There are no wetlands located on the Remediation Site, according to the National Wetlands Inventory Map online map referenced in the Carnow Conibear Phase I ESA. No wetland vegetation was observed during the investigation.

### 3.3.6 Flooding

The Federal Emergency Management Agency (FEMA) has designated the subject site as Zone X, which indicates that it is an area determined to be outside the 0.2% annual chance (500 year) floodplain (FIRM Map Panel 17031C0645J, dated August 19, 2008).

### 3.3.7 Migration Pathways

Current site features are to be demolished and the Remediation Site is slated for redevelopment with a fire station, parking lot, driveways, and detention basins. Existing utilities at the Remediation Site will be properly capped and/or removed and will not provide adequate migration pathways at the conclusion of the project.

### 3.3.8 Exposure Routes

Based on the groundwater demonstration and proposed use of the Remediation Site as a fire station, exposure routes for the residential, construction worker and Class II groundwater scenarios are applicable at the Remediation Site.

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## 4.0 Comprehensive Site Investigation

### 4.1 Field Activities

Carnow Conibear advanced soil borings, installed groundwater monitoring wells, performed a well survey, and collected samples for laboratory analysis. These activities were conducted after the CDM Phase II Investigation to further investigate the identified RECs and determine the nature and extent of contamination.

Subsurface investigation maps depicting soil boring and monitoring well locations at the Remediation Site are provided as **Exhibits III & IV**, respectively.

#### 4.1.1 Sampling Events

##### *CDM Phase II Investigation – March, 1999*

CDM advanced 18 soil borings (SB-1 to SB-18) on March 9, 1999 to depths of 10 to 15 feet bgs during the Phase II Investigation which was a part of a larger investigation. Borings SB-1 through SB-12 were located on the Remediation Site and SB-13 through SB-18 were located on a northern area not included with the Remediation Site. The objective was to investigate areas of concern relating to a historic railroad yard, locomotive house, Paint & Oils building and a 150-gallon naphta UST that was documented on the east side of the Remediation Site.

CDM submitted surface and subsurface soil samples from each boring for laboratory analysis of select parameters. Analytical results showed that varying concentrations of volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), polynuclear aromatic hydrocarbons (PNAs), arsenic, and mercury were present at the Remediation Site.

Borings SB-2 and SB-7 had samples collected below the documented groundwater level. Carnow Conibear omitted these soil samples results from use in this CSI/ROR/RAP since potential impacts below water table will be addressed in the groundwater samples. Samples and analysis collected from borings SB-1, SB-3 through SB-6, and SB-8 through SB-12 were incorporated in this CSI/ROR/RAP.

##### *Carnow Conibear Soil & Groundwater Investigation – October & November, 2018*

Carnow Conibear advanced 32 soil borings and 3 temporary monitoring wells over three sampling events as part of a larger investigation that included the Remediation Site and a vacant area immediately to the north. The borings located on the Remediation Site include B-104B through B-107B, B-109B through B-111B, B-114B through B-118B, B-205B through B-214B and temporary monitoring wells MW-105B and MW-116B. All other borings and wells were located on the north adjacent property are not included in this CSI/ROR/RAP.

Soil borings B-106B, B-107B, and B-111B were advanced on October 16, 2018 and the rest of the B-100 series on November 12 and 13, 2018. The borings were advanced to depths of 10 to 20 feet bgs and the groundwater monitoring wells MW-105B and MW-116B were installed at the Remediation Site on November 12, 2018. The groundwater monitoring well MW-113B was installed on the north adjacent property and was include in this CSI/ROR/RAP for modeling groundwater flow. A second round of sampling was conducted on November 29, 2018 and soil

borings B-201B through B-2014B were advanced to depths of 10 feet bgs. Boring locations were selected based on UST documentation, historical site use information, and to achieve spatial coverage of the Remediation Site.

One soil sample was collected from the surface interval (i.e., within 3 feet bgs) in each boring to examine surface fill impacts. A deeper soil sample was also collected and submitted for analysis from 3 to 5 feet bgs or above the observed groundwater level.

Soil samples were selectively analyzed for the IEPA Target Compound List (TCL), VOCs, SVOCs, PNAs, Target Analyte List (TAL) metals, Resource Conservation & Recovery Act (RCRA) metals, pesticides, polychlorinated biphenyls (PCBs), total petroleum hydrocarbons (TPH), fractional organic content ( $f_{oc}$ ) and/or pH.

Each monitoring well was purged, sampled, measured, and surveyed to determine impacts to local groundwater and characterize flow conditions. Each groundwater sample was analyzed for TCL.

Weather during the Carnow Conibear investigation consisted of temperatures around 20 to 25 degrees Fahrenheit, with cloudy skies.

#### 4.1.2 Soil Borings

Soil boring methodology employed by CDM is described in the Phase II Investigation report provided to the IEPA under separate cover.

Soil borings performed by Carnow Conibear were advanced with Geoprobe® system direct-push drilling equipment. Borings were positioned to avoid known utilities and to achieve characterization of the Remediation Site. The Geoprobe® system utilizes disposable acetate liners within stainless steel sampling tubes. The sampling tubes were decontaminated prior to each use with an Alconox® and water solution, and then rinsed with distilled water. The disposable liners within the sampling tube were discarded after a single use. Soil samples were collected by hydraulically advancing the sampling tube (with acetate liner) into the subsurface. Soil samples were continuously collected to the terminus of the boring. All cuttings generated during the soil boring activities were returned to the open borehole at the conclusion of the drilling activities. Any remaining void space was backfilled to grade with bentonite chips.

Carnow Conibear's field representative supervised the drilling operation and collected, inspected, and logged all samples. The soil samples were inspected for visible signs of contamination, and were classified in terms of texture, color, and consistency in accordance with the Unified Soil Classification System (USCS). Headspace portions of each soil sample collected were field screened with a photoionization detector (PID), which provides a qualitative measurement of VOCs in the soil sample. PID screening consisted of collecting an undisturbed representative portion of soil from each two-foot sample interval and placing it in a sealable plastic sandwich bag. Once the bag was sealed, the soils within the bag were disturbed to allow headspace to develop. The tip of the PID probe was then inserted into the bag and the reading was recorded. The PID was calibrated at the Remediation Site prior to its initial usage during each sampling event.

Carnow Conibear soil boring logs are presented in **Appendix A**. Carnow Conibear and CDM soil boring locations are depicted on **Exhibit III**.



#### 4.1.3 Monitoring Wells

Three temporary monitoring wells, numbered MW-105B, MW-113B, and MW-116B, were installed by Carnow Conibear on November 12, 2018 at boring locations corresponding to the same respective numbers. The temporary monitoring wells were constructed of one inch outside diameter polyvinyl chloride (PVC) pipe and ten-foot screen with 0.010' slots. Clean filter pack sand was placed in the annulus around each screen from the bottom of the boring to approximately one foot above the screen. A seal of bentonite pellets was placed above the sand pack to just beneath the surface. The riser pipe extended from the top of the screen to several inches above the ground surface. Each riser pipe was fitted with an expandable locking cap.

Upon installation, each well was developed to ensure groundwater movement between the well and the subsurface materials. Water level measurements were taken using a water level indicator. A minimum of three volumes of water was purged from within each well prior to groundwater sampling. Well elevations were then surveyed relative to an arbitrary benchmark. **Table B**, below, provides a summary of the survey results.

**Table B – Groundwater Elevations on 11/12/2018**

Monitoring Well	Surface Elevation	Depth to Water From Surface	Groundwater Elevation
MW-105B	99.54	4.89	94.65
MW-113B	99.04	2.18	96.86
MW-116B	99.61	2.87	96.74

Notes: 1. Each well was surveyed relative to the same benchmark (a fire hydrant on the southeast adjacent corner along S. Morgan St. and W. 119<sup>th</sup> St.) with an arbitrary site datum of 100.00 feet.  
2. All values given in feet.

Based on the survey data, the general groundwater flow direction was determined to be to the general east-southeast (97.67° from North) with a site-specific hydraulic gradient of 0.01311 ft/ft. **Exhibit V** depicts the general groundwater flow direction based on the survey.

#### 4.1.5 Sampling Procedures & Analysis

CDM submitted 12 soil samples for laboratory analysis from within the Remediation Site boundary. CDM sampling procedures and analytical methods are discussed in the Phase II Investigation report.

Carnow Conibear submitted a total of 52 soil samples, 1 composite waste characterization soil sample, and 3 groundwater samples to an environmental laboratory for analysis as part of a larger investigation. 35 soil samples, 2 groundwater samples and one composite waste characterization soil sample were analyzed as part of the Remediation Site.

The laboratory used by Carnow Conibear is accredited by the IEPA in accordance with the National Environmental Laboratory Accreditation Program (NELAP). Laboratory NELAP accreditation is provided in **Appendix C**.

Carnow Conibear sample collection procedures and the US Environmental Protection Agency (EPA) methods used to analyze the samples are provided below.

### Soil Samples

The portion of each soil sample analyzed for VOCs was collected first with a Terra Core® sampler and placed into three 40 milliliter vials (one with methanol as preservative and two with sodium bisulfate as preservative) and immediately placed in a cooler with ice. The sample portion analyzed for additional constituents was then transferred to an eight ounce glass jar with a Teflon® lid and stored in a cooler with ice. A portion of each 2-foot sample depth interval was placed into a resealable plastic bag for headspace screening with the PID as described previously. All containers were precleaned to EPA standards and sealed with Teflon® lined plastic screw-on lids. Soil samples were analyzed by the following procedures:

- VOCs utilizing EPA Method 5035/8260B;
- SVOCs utilizing EPA Method 8270C;
- PNAs utilizing EPA Method 8270C/3550B;
- Pesticides utilizing EPA Method 8081;
- PCBs utilizing EPA Method 8082;
- Inorganics utilizing EPA Methods 6020A/3050B/7471A(mercury)/9012A(cyanide);
- Synthetic Precipitation Leaching Procedure (SPLP) Metals utilizing EPA Methods 1312/6020;
- Toxicity Characteristic Leaching Procedure (TCLP) Metals utilizing EPA Methods 1311/6020;
- TPH utilizing EPA Methods 8015M/3580A;
- $f_{oc}$  utilizing EPA Method D2974; and/or
- pH utilizing EPA Method 9045C.

**Table I** provides a summary of the analytical parameter(s) for each soil sample submitted for laboratory analysis. **Tables II-IX** provide the soil analytical results.

In addition to discreet soil samples collected from each boring, one composite soil sample (labeled "WC-01") was collected for waste stream characterization and analyzed for *Green Sheet* parameters.

### Groundwater Samples

Prior to collection of the groundwater samples, water quality measurements were monitored until they were stabilized. Parameters monitored for stability included pH, temperature, electro-conductivity, total dissolved solids and turbidity. Due to the silty sand and clay lithology encountered at the Remediation Site, groundwater was observed to remain turbid following stabilization of the other parameters. To minimize elevated detections due to desorption and more accurately characterize the mobile phase of these constituents, secondary sample portions collected for inorganic analysis were passed through a 0.45µm disposable groundwater filter to remove suspended sediment. All containers were precleaned to EPA standards and sealed with Teflon® lined plastic screw-on lids. Groundwater samples were collected and transferred to the following containers:

- 40-milliliter (ml) vials preserved with hydrochloric acid for VOCs;

- 500-ml plastic bottle preserved with nitric acid for metals;
- 250-ml plastic bottle preserved with sodium hydroxide for cyanide; and
- 2-liter amber glass bottles for SVOCs, pesticides, and PCBs.

**Tables X - XIV** present the analytical results for the groundwater samples.

### *Sample Handling*

Each sample was labeled by a unique identification number as it was collected during the investigation activities. The sample identification numbers consisted of the boring or well number, as applicable. Each container was labeled at the time of sampling with the following information using indelible ink:

- Project/site name;
- Date of collection;
- Sample name;
- Sample times;
- Name of sample collector.

All samples were maintained in the cooler with ice for transport to the laboratory. A chain of custody form was prepared for the samples. The chain of custody form was signed and dated by Carnow Conibear's sampler and representative delivering the samples, as well as the laboratory representative who received the samples.

## **4.2 Analytical Results**

The samples submitted were analyzed in accordance with the procedures outlined in SW-846, *Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods*, which describes the methods of sampling and analyses to comply with RCRA regulations.

Data collected from the subsurface investigation was reviewed and validated by Carnow Conibear for completeness, rationality and conformance, in order to meet the project objectives. Carnow Conibear's project manager reviewed the general sample information, such as hold times, sample temperatures, containers, and preservatives, to verify compliance with project procedures and regulatory requirements. The project manager also reviewed the narrative of the analytical report to determine if any issues were identified during the laboratory's QA/QC procedures regarding the laboratory's methods and equipment. The following are considered notable comments within the laboratory narrative:

- Sample B-109B (3-5) had recovery of VOC surrogate 4-Bromofluorobenzene outside of the control limits (123% recovery, QC Limits: 58-122%). Recovery of all other surrogates were within control limits.

All other data met the following standards and is considered usable and valid:

- Carnow Conibear field observations were thoroughly documented in the field;
- The sampling collection procedures outlined in previous sections were followed by Carnow Conibear;
- Laboratory reports and IEPA accreditation were valid for the parameters analyzed; and

- CDM provided descriptions of sampling procedures and analyses in the Phase II Investigation.

Laboratory analytical reports are provided in **Appendix D**.

#### 4.2.1 Soils (TACO Tier 1 Assessment)

Analyte concentrations in soil samples were evaluated in relation to the Tier 1 SROs promulgated in 35 IAC 742, also known as *Tiered Approach to Corrective Action Objectives* (TACO). The SROs have been modified to reflect background concentrations of PNAs in the City of Chicago and inorganics in Metropolitan Statistical Areas (MSAs). Exposure routes were evaluated for the residential, construction worker, and Class II groundwater scenarios.

**Table I** provides the analytical parameter(s) performed for each soil sample. **Tables II – IX** summarize the soil sample analytical results. **Exhibits VI – IX** depict the areas of estimated impacts above applicable Tier 1 SROs at the Remediation Site. Complete analytical laboratory reports from the Carnow Conibear investigation are presented in **Appendix D**.

#### *Inorganics – Soil Component of Class II Groundwater Ingestion*

To evaluate inorganic constituents for the soil component of groundwater ingestion (SCGW) exposure route, total concentrations of these analytes were compared to background concentrations provided in Appendix A, Table G of TACO. If the concentration of these analytes exceeded the background concentration they were compared to pH-Specific Tier 1 SROs for Class II groundwater. For pH ranges in which no Class II standard was provided, the pH-Specific Tier 1 SRO for Class I groundwater in the same pH range was applied or background concentrations for constituents in which no pH-Specific Tier 1 SROs were provided. The following inorganic constituents were determined to exceed applicable Tier 1 SRO(s) for the SCGW exposure route in at least one soil sample:

- Aluminum
- Calcium
- Chromium
- Cobalt
- Iron
- Magnesium
- Manganese
- Mercury
- Potassium
- Sodium

Calcium, magnesium, and sodium are considered nutrients and therefore are not considered COCs for the Remediation Site. Mercury was found above background concentrations in several samples from CDM's Phase II Investigation. CDM's samples were not analyzed for pH. As such, the pH-specific Class II SROs from the closest Carnow Conibear soil samples were applied and mercury is not a COC for the SCGW exposure route. No established Class II SRO is recorded for pH specific vanadium; therefore, the more stringent pH specific Class I SRO of 980 mg/kg was applied and vanadium is not a COC for the Remediation Site. For each remaining metal listed above, SPLP and/or TCLP analysis was performed on the soil sample exhibiting the highest total respective analyte concentration. Resulting concentrations from the leaching procedure analyses were below the respective Tier 1 Class II GROs. Therefore, no inorganic constituents are considered COCs for the soil component of Class II groundwater ingestion exposure route at the Remediation Site.

Total inorganic concentrations are presented in comparison to Tier 1 pH-Specific SROs and median background concentrations on **Table VII**; SPLP and TCLP concentrations are presented in comparison to Tier 1 Class II GROs on **Table VIII**.

*Residential Indoor Inhalation*

Acetone, 2-butanone, carbon disulfide, total xylenes, naphthalene, and mercury were detected in one or more soil samples at the Remediation Site. These constituents are listed on Appendix A, Table J of TACO as applicable volatile chemicals for the indoor inhalation exposure route. Further evaluation of the indoor inhalation exposure route is discussed in Section 4.3.5.

*Summary of Tier 1 SRO Exceedances*

**Table C**, below, lists the COCs and respective exposure routes that were exceeded within soil samples at the Remediation Site.

**Table C – Summary of COCs Exceeding Tier 1 SROs**

Boring	Depth	Exposure Routes				
		Class II SCGW	Ingestion		Outdoor Inhalation	
			Residential	CW	Residential	CW
<b>B-104B</b>	1'-3'		Dibenzo(a,h)anthracene Lead	Lead		
<b>B-106B</b>	1'-3'	Benz(a)anthracene	Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Dibenzo(a,h)anthracene Indeno(1,2,3-c,d)pyrene Arsenic Lead	Lead		Mercury
<b>B-110B</b>	3'-5'		Arsenic Lead			
<b>B-114B</b>	1'-3'		Arsenic			
<b>B-115B</b>	1'-3'		Arsenic			Mercury
<b>B-117B</b>	1'-3'		Arsenic			
<b>B-208B</b>	1'3'		Arsenic			
<b>B-211B</b>	1'-3'		Arsenic			
<b>B-214B</b>	1'-3'		Dibenzo(a,h)anthracene			
<b>SB-3</b>	1.5'-4'					Mercury
<b>SB-4</b>	1'-3'		Benzo(a)pyrene			Mercury
<b>SB-5</b>	3'-5'		Arsenic			
<b>SB-6</b>	1'-3'					Mercury
<b>SB-12</b>	3'-5'		Arsenic			

- Notes: 1. All depths are given in feet below ground surface (bgs).  
 2. Class II SCGW = Soil Component of Class II Groundwater Ingestion Scenario pursuant to 35 IAC 742.  
 3. Residential = Residential Scenario pursuant to 35 IAC 742.  
 4. CW = Construction Worker Scenario pursuant to 35 IAC 742.

#### 4.2.2 Groundwater (TACO Tier 1 Assessment)

Carnow Conibear evaluated groundwater analytical results to determine potential exposure risks for the groundwater direct ingestion and residential indoor inhalation exposure routes.

The temporary monitoring wells were purged prior to sampling to obtain stabilized water conditions. Turbidity levels were taken for each well on the Remediation Site and the well on the north adjacent property. Turbidity levels for MW-105B and MW-116B were 46.8 Nephelometric Turbidity Unit (NTU) and 63 NTU, respectively. The north adjacent well, MW-113B, had a turbidity level of 3236 Attenuation Unit (AU). Due to the high turbidity levels at each well, both unfiltered and filtered samples were taken at each well to analyze for total metal and dissolved metal concentrations, respectively, to determine if any elevated total metal concentrations are attributed to suspended solids in the groundwater.

Aluminum, iron, lead, and vanadium were detected in the unfiltered samples at total metal concentrations above the Class II GROs for direct groundwater ingestion but were not detected above Class II GROs in the filtered samples. Therefore, the elevated total metals concentrations can be attributed to the suspended solids in the groundwater. Thus, the filtered sample results are representative of groundwater conditions and no direct ingestion Tier 1 GRO exceedances were identified in the monitoring wells. Results of the filtered and unfiltered groundwater samples can be viewed on **Table X-XIV**.

No VOCs, SVOCs, PNAs, pesticides, or PCBs were detected in the groundwater samples. No volatile chemicals listed on Appendix A, Table J of TACO were detected in the groundwater samples. Therefore, the indoor inhalation exposure route is not a concern for the Remediation Site.

### 4.3 Endangerment Assessment

Based on the Tier 1 evaluation, the following exposure routes have been identified as potential concerns at the Remediation Site.

#### 4.3.1 Residential Soil Ingestion

The following constituents are considered COCs for the residential soil ingestion exposure route:

- The PNAs, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenzo(a,h)anthracene, and/or indeno(1,2,3-c,d)pyrene exceeded applicable Tier 1 SROs in surface soils in four boring locations at the Remediation Site;
- Arsenic exceeded the applicable Tier 1 SRO in surface and/or subsurface soils in nine boring locations at the Remediation Site; and
- Lead exceeded the applicable Tier 1 SRO in surface and/or subsurface soil samples in three boring locations at the Remediation Site.

Tier 1 ingestion SRO exceedances were identified in twelve soil samples and are: (1) two isolated PNA plumes located on the northeast corner and the eastern boundary of the Remediation Site; and (2) widespread arsenic and lead impacts that cover most of the

Remediation Site except the southwestern corner. The extent of these impacts were conservatively estimated to be to the nearest boring in which no Tier 1 SRO exceedances for this exposure route were identified. Majority of the exceedances were in the surface samples with some exceedances extending from the surface to groundwater.

**Exhibits VIa and VIb** depicts the estimated horizontal extent of Tier 1 SRO exceedances for the residential soil ingestion exposure route at the Remediation Site.

#### 4.3.2 Construction Worker Outdoor Soil Ingestion

The following constituent is considered a COC for the construction worker outdoor soil ingestion exposure route:

- Lead exceeded the applicable Tier 1 SRO in two surface soil boring locations at the Remediation Site. Lead impacts were identified in borings B-104B and B-106B between 1 and 3 feet bgs.

**Exhibit VII** depicts the estimated horizontal extent of Tier 1 SRO exceedances for the construction worker outdoor soil ingestion exposure route at the Remediation Site.

#### 4.3.3 Construction Worker Outdoor Soil Inhalation

The following constituent is considered a COC for the construction worker outdoor soil inhalation exposure route:

- Mercury exceeded the applicable Tier 1 SRO in five surface soil boring locations at the Remediation Site. Mercury impacts were identified in surface soil samples from borings SB-3, SB-4, SB-6, B106B, and B115B and are conservatively considered to be present throughout the central and southern portions of the Remediation Site.

**Exhibit VIII** depicts the estimated horizontal extent of Tier 1 SRO exceedances for the construction worker outdoor soil inhalation exposure route at the Remediation Site.

#### 4.3.4 Soil Component of Class II Groundwater Ingestion

The following constituents are considered COCs for the Class II SCGW exposure route:

- The PNA benz(a)anthracene exceeded applicable Tier 1 SROs in boring B-106B between 1 and 3 feet bgs.

**Exhibit IX** depicts the horizontal extent of Tier 1 SRO exceedances for the Class II SCGW exposure route at the Remediation Site. The plume, located on the eastern side of the Remediation Site, was conservatively estimated to extend to the nearest boring in which no Tier 1 SRO exceedances for this exposure route were identified in surface soils. These impacts are vertically delineated to within three feet bgs based on the field observations for the groundwater level documented at 3 to 8 feet bgs.

#### 4.3.5 Residential Indoor Inhalation

Volatile chemicals detected in soils at the Remediation Site consist of acetone, 2-butanone, carbon disulfide, total xylenes, naphthalene, and mercury. Groundwater analytical results demonstrated that volatile constituents were not detected in any of the groundwater samples and, as such, did not exceed any Tier 1 indoor inhalation GROs. Therefore, the indoor inhalation exposure route is not a concern at the Remediation Site.

#### 4.3.6 USTs

Historical records indicate that a 150-gallon naphtha UST may be located on the eastern boundary of the Remediation Site along South Morgan Street. A ground penetrating radar (GPR) survey performed on the Remediation Site as part of a larger investigation did not identify anomalies indicative of existing USTs, however the electromagnetic induction (EMI) survey performed at the Remediation Site identified several anomalies. No USTs were encountered during a test pit investigation conducted on the Remediation Site and north adjacent property to address the anomalies of the GPR/EMI Survey.

### 4.4 Comprehensive Site Investigation Conclusion

Based on the CSI and endangerment assessment, the constituents presented in **Table D**, below, have been identified as COCs at the Remediation Site:

**Table D – Summary of COCs at the Remediation Site**

Exposure Route	COCs
<b>Residential Scenario</b>	
Soil Ingestion	Benz(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene, Arsenic, Lead
Outdoor Soil Inhalation	None
Indoor Soil Inhalation	None
<b>Construction Worker Scenario</b>	
Soil Ingestion	Lead
Outdoor Soil Inhalation	Mercury
<b>Class II Groundwater Scenario</b>	
Soil Component	Benz(a)anthracene
Direct Ingestion	None



## 5.0 Remediation Objectives Report

Applicable exposure routes for the Remediation Site are residential soil ingestion, construction worker soil ingestion, construction worker outdoor soil inhalation, and the soil component of groundwater ingestion (SCGW) for Class II groundwater. Prior to elimination of any exposure pathways at the Remediation Site, the minimum requirements outlined in 35 IAC 742.305 must be evaluated and satisfied. These requirements include the following:

- *The sum of all organic COCs shall not exceed the attenuation capacity of the soil as determined under Section 742.215 [Section 742.305(a)].*

Based upon the analytical results, the greatest sum of organic constituents in on-site soil samples are less than 6,000 mg/kg and 2,000 mg/kg for surface and subsurface soils, respectively. Sample B-106B (1-3) exhibited the highest sum of detected organic constituent concentrations at the Remediation Site, with a value of 208.51 mg/kg.

Additionally, TPH analysis was performed on surface and subsurface soil samples in borings B-105B and B-116B. TPH sample results did not detect Gasoline Range Organics (GRO), Diesel Range Organics (DRO), or Extended Range Organics (ERO) in the soil samples analyzed. All values are below the attenuation capacity threshold of 2,000 mg/kg. TPH analytical results are provided on **Table IX**.

Therefore, this requirement has been satisfied.

- *The concentration of any organic COC remaining in the soil shall not exceed the soil saturation limits as determined under Section 742.220 [Section 742.305(b)].*

Soil saturation limits are chemical-specific and applicable only to chemicals which are in liquid phase at room temperature (less than 30°C). Applicable constituents for this requirement and their respective soil saturation limits are listed on Appendix A, Table A of TACO. None of the applicable constituents were detected above a corresponding soil saturation limit. Therefore, this requirement is satisfied.

- *Any soil which contains COCs shall not exhibit characteristics of reactivity for hazardous waste [Section 742.305(c)].*

Based on the analytical results from the subsurface investigation, none of the COCs identified for the Remediation Site indicate the presence of contaminants that are strongly reactive with one another, thereby indicating that the analyte concentrations in the soil do not exhibit reactivity. Additionally, analytical results of the composite soil sample submitted for waste characterization (sample "WC") showed that reactive sulfide was not detectable within soils from the Remediation Site. Therefore, this requirement has been satisfied.

- *Any soil which contains COCs shall not exhibit a pH less than or equal to 2.0 or greater than or equal to 12.5 [Section 742.305(d)].*

The pH of soil samples collected at the Remediation Site ranged from 7.11 to 8.21 standard units and did not fall within the range of corrosivity (less than 2.0 standard units and greater than 12.5 standard units). Therefore, this requirement has been satisfied.

- *Any soil which contains arsenic, barium, cadmium, chromium, lead, mercury, selenium or silver shall not exhibit any of the characteristics of toxicity for hazardous waste [Section 742.305(e)].*

Analytical results of the composite soil sample submitted for waste characterization showed that TCLP concentrations for each of the above listed RCRA metals are below the respective toxicity characteristic thresholds listed in 35 IAC 721.124. Additionally, results for individual soil samples analyzed by TCLP were below the respective toxicity limits.

Therefore, this requirement is satisfied. TCLP concentrations are presented on **Table VIII**.

- *If contaminants of concern include PCBs, the concentration of any PCBs shall not exceed 50 parts per million as determined by SW-846 Methods [Section 742.305(f)].*

PCBs were not detected in soil samples collected at the Remediation Site. Therefore, this requirement is satisfied.

- *The concentration of any COC in soil gas shall not exceed 10% of its Lower Explosive Limit (LEL) as measured by a hand held combustible gas indicator that has been calibrated to manufacturer specifications [Section 742.305(g)].*

Soil gas samples were not collected during the subsurface investigation. Therefore, this requirement is not applicable.

Based on the evaluation, the general requirements of Section 742.305 have been satisfied, and the exposure pathways can be evaluated. All analytical data can be viewed in **Appendix D**.

## **5.1 Residential Soil Ingestion**

Benz(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene, arsenic, and lead were detected at concentrations exceeding applicable Tier 1 residential ingestion SROs at the Remediation Site. To exclude the soil ingestion exposure route, the requirements of 35 IAC 742.315 must be satisfied:

- *In accordance with 35 IAC 742.300(b) the extent of soils above Tier 1 SROs must be delineated at the site.*

As discussed in Section 4.3.1, COCs for the residential ingestion exposure route were identified in many borings and at varying depths. Tier 1 ingestion SRO exceedances were not identified in the far north central and southwest corner of the Remediation Site. **Exhibits VIa and VIb** depict the estimated extent of Tier 1 ingestion SRO exceedances at the Remediation Site. Therefore, this requirement is satisfied.

- *In accordance with 35 IAC 742.305 the general requirements of Subpart C must be satisfied.*

As discussed in the previous section, the requirements of 35 IAC 742.305 have been satisfied.

- *In accordance with 35 IAC 742.315, the soil ingestion exposure route will be excluded through the following:*

Limited soils in the impacted areas (**Exhibits VIa** and **VIb**) will be excavated, removed from the Remediation Site, and properly disposed at a permitted landfill. Subsequently, the excavated areas will be backfilled with appropriate material to meet the requirements of engineered barriers pursuant to 35 IAC 742.1105. Excavation depths will be based upon the types of barriers to be used and site development plans. Additionally, an institutional control requiring maintenance of the engineered barriers in accordance with 35 IAC 742.1100(d) will be enacted at the completion of the project.

## 5.2 Construction Worker Soil Ingestion

Lead was detected at concentrations exceeding applicable Tier 1 construction worker ingestion SRO at the Remediation Site. To exclude the soil ingestion exposure route, the requirements of 35 IAC 742.315 must be satisfied:

- *In accordance with 35 IAC 742.300(b) the extent of soils above Tier 1 SROs must be delineated at the site.*

As discussed in Section 4.3.2, COCs for the construction worker ingestion exposure route were identified in surface soils in two boring locations. **Exhibit VII** depicts the estimated extent of Tier 1 ingestion SRO exceedances at the Remediation Site. Therefore, this requirement is satisfied.

- *In accordance with 35 IAC 742.305 the general requirements of Subpart C must be satisfied.*

As discussed previously, the requirements of 35 IAC 742.305 have been satisfied.

- *In accordance with 35 IAC 742.315, the soil ingestion exposure route will be excluded through the following:*

Safety precautions will be taken to reduce exposure to construction workers by implementing a site-specific health and safety plan and designating a construction worker caution area. The caution area will include the entire Remediation Site as a conservative measure. Additionally, an institutional control in accordance with 35 IAC 742.1100(d) will be enacted to prevent exposures during any potential future construction activities.

## 5.3 Construction Worker Soil Inhalation

Mercury was detected at concentrations exceeding applicable Tier 1 construction worker outdoor inhalation SROs at the Remediation Site. To exclude the soil inhalation exposure route, the requirements of 35 IAC 742.310 must be satisfied:

- *In accordance with 35 IAC 742.300(b) the extent of soils above Tier 1 SROs must be delineated at the site.*

As discussed in Section 4.3.3, mercury impacts are conservatively estimated to be present throughout central and southern portions of the Remediation Site. Therefore, this requirement is satisfied.

- *In accordance with 35 IAC 742.305 the general requirements of Subpart C must be satisfied.*

As discussed previously, the requirements of 35 IAC 742.305 have been satisfied.

- *In accordance with 35 IAC 742.310, the soil inhalation exposure route will be excluded through the following:*

Safety precautions will be taken to reduce exposure to construction workers by implementing a site-specific health and safety plan and designating a construction worker caution area. The caution area will include the entire Remediation Site as a conservative measure (**Exhibit XII**). Additionally, an institutional control in accordance with 35 IAC 742.1100(d) will be enacted to prevent exposures during any potential future construction activities.

#### **5.4 Residential Indoor Soil Inhalation**

As discussed in the Endangerment Assessment, the indoor inhalation exposure route is not a potential concern at the Remediation Site since no volatiles were detected in any of the groundwater samples at the Remediation Site.

#### **5.5 Soil Component of Class II Groundwater Ingestion**

Benz(a)anthracene was detected in exceedance of applicable Tier 1 SROs for the Class II SCGW exposure route. The estimated horizontal extent of this exceedance is depicted on **Exhibit IX**. To exclude the Class II SCGW exposure route, Carnow Conibear conducted a Tier 2 Evaluation in accordance with 35 IAC 742 Subpart F. Site-specific Tier 2 SROs were developed for each applicable constituent utilizing RBCA equation R-12 provided in Appendix C, Table C of TACO. Developed Tier 2 SROs would be compared to the concentration of each constituent which exceeded a Tier 1 SRO for this exposure route. Pursuant to 35 IAC 742.600(e), the following criteria must be satisfied for a Tier 2 assessment:

- *For each discrete sample, the total soil contaminant concentration of either a single contaminant or multiple contaminants of concern shall not exceed the attenuation capacity of the soil as provided in Section 742.215.*

As described previously, the greatest sum of organic constituents in on-site soil samples are less than 6,000 mg/kg and 2,000 mg/kg for surface and subsurface soils, respectively. Sample B-106B (1-3) exhibited the highest sum of detected organic constituent concentrations at the Remediation Site, with a value of 208.51 mg/kg. Additionally, TPH analysis was performed on surface and subsurface soil samples in borings B-105B and B-116B. TPH sample results did not detect GROs, DROs, or EROs in the soil samples analyzed. All values are below the attenuation capacity threshold of 2,000 mg/kg. Therefore, this requirement has been satisfied.

- Remediation objectives for noncarcinogenic compounds which affect the same target organ, organ system, or similar mode of action shall meet the requirements of Section 742.720.

According to Appendix A, Table E of TACO, the COCs for this exposure route are not considered similar-acting noncarcinogenic chemicals. Therefore, this requirement is satisfied.

- The soil remediation objectives based on the inhalation and soil component of the groundwater ingestion routes shall not exceed the soil saturation limit as provided in Section 742.220.

The COCs for this exposure route do not have established soil saturation limits, as they do not have melting points below 30° C. Therefore, this requirement is not applicable.

As demonstrated, the criteria for a Tier 2 evaluation have been fulfilled. To develop site-specific Tier 2 SROs, Carnow Conibear utilized the parameters detailed in 35 IAC 742, Appendix C, Table D, as well as site-specific variables which accounted for a relatively conservative scenario. Exhibits, sources, parameter values, intermediate solutions, and calculated values from the Tier 2 evaluation are provided in **Appendix E**.

Results of the Tier 2 evaluation are summarized in **Table E**, below.

**Table E – Site-Specific Tier 2 SROs for Class II SCGW**

Soil Boring (Depth)	COC	Sample Concentration	Tier 2 SRO	Tier 2 SRO Exceedance?
B-106B (1-3)	Benz(a)anthracene	19	2000*	No

- Notes:
1. Sample concentrations and SROs are given in milligrams per kilogram of soil (mg/kg).
  2. All depths are given in feet below ground surface (bgs).
  3. \* = Applicable Tier 2 SRO equals Most Stringent Soil Attenuation Capacity.

As demonstrated in the evaluation, the concentration of each COC is below the corresponding site-specific Tier 2 SRO. An institutional control prohibiting onsite potable water wells in accordance with the local groundwater ordinance will also be enacted to protect potential onsite receptors. Therefore, the Class II SCGW exposure route is excluded as a concern at the Remediation Site.

## 5.6 Remediation Objectives Report Conclusion

The Remediation Objectives determination demonstrated compliance with 35 IAC 742.305, allowing for the exclusion of exposure pathways at the Remediation Site. The Remediation Objectives will be achieved through the following:

- The residential soil ingestion exposure route will be excluded through a combination of soil removal and construction of engineered barriers.
- The construction worker soil ingestion and inhalation exposure routes will be excluded by implementation of a site-specific health and safety plan and designation of a construction worker caution area.

- Site-specific Tier 2 SROs, calculated in accordance with 35 IAC 742 Subpart F, were utilized to exclude the Class II SCGW exposure route.
- Potential onsite groundwater exposures will be eliminated by adherence to the local ordinance restricting potable water wells.

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## 6.0 Remedial Action Plan

This section describes the remedial activities that will be conducted at the Remediation Site as a part of the site redevelopment process. Remediation activities will include limited soil excavation and off-site disposal, installation of engineered barriers, potential removal of UST(s), and utilization of institutional controls. The removal of UST(s) has been included as a contingency measure only. Current investigations did not identify any remaining USTs on the Remediation Site.

### 6.1 General Remediation Site Controls

#### 6.1.1 Site Safety/Security

The Remediation Site will be enclosed with a safety fence prior to the start of any remediation activities. Entrance areas will also be enclosed with a fence during non-working hours.

#### 6.1.2 Dust Control

Dust migration during soil excavation shall be reduced by applying potable water to the surface with water trucks or other sprinkling methods when dry soil conditions exist, covering trucks and stockpiles, and other methods. Water will not be used when it may create hazardous or objectionable conditions such as ice, flooding, or pollution. Additionally, fabric will be utilized on the construction fence to provide additional dust control, and street sweeper services will be provided, as necessary.

### 6.2 Soil Excavation

The extent of surface soils which exhibited Tier 1 SRO exceedances for the residential soil ingestion exposure route (**Exhibit VIa & Exhibit VIb**) will be designated as a Soil Management Zone (SMZ) at the Remediation Site during remedial activities. The establishment of a SMZ will allow for consolidation and/or use of soils above Tier 1 SROs for structural fill in accordance with 35 IAC 740.535(a)(2). Compliance with the requirements of 35 IAC 740.535(b) is demonstrated as follows:

1. All COCs have been identified as part of the CSI portions of this report under 35 IAC 740.420.
2. The horizontal extent of the SMZ is shown on **Exhibit XIII**. The vertical dimensions of the SMZ will be established from the ground surface to the depth of groundwater within the SMZ. Groundwater depths encountered during the subsurface investigation ranged from approximately 3 to 8 feet bgs.
3. The SMZ will be used for management, stockpiling, and consolidation of soils above Tier 1 SROs during excavation, backfilling, and grading activities at the Remediation Site. Soils within the SMZs can be used for structural fill beneath newly constructed engineered barriers, or transported for off-site disposal at a properly permitted facility.
4. As explained in **Section 5.0**, all COCs within the SMZs meet the requirements of 35 IAC 742.305.

5. All exposure routes of concern at the Remediation Site are addressed in the ROR.
6. The remedial activities will be undertaken in accordance with project engineering design specifications. Soil management practices compliant with 35 IAC 740.535 will be conducted to prevent odor from occurring; minimize fugitive emissions of particulate matter; prevent the generation of potentially contaminated runoff; and will not provide a breeding place or food source for vectors. Silt fences, swales, sprayed-on water, tarps, and/or sprayed-on wind-proofing material will be used to control any runoff or windblown debris, as needed.
7. Based on the analytical results of the samples analyzed during the investigation, the soil within the SMZ is not considered hazardous waste (See **Section 5.0**).
8. The SMZ will encompass portions of the Remediation Site where contaminants were detected at concentrations greater than Tier 1 SROs. No soil containing COCs at concentrations above the Tier 1 SROs will be placed outside the SMZ except where they are removed from the Remediation Site for disposal at an approved Subtitle D landfill.

Soils relocated from any impacted area will be transferred within the SMZ to prevent cross-contamination with other areas. No soils featuring Tier 1 ingestion SRO exceedances will be stockpiled on the Remediation Site in areas outside of the SMZ.

### 6.3 Soil Excavation

As detailed in the ROR, soils which exhibited Tier 1 SRO exceedances for the residential ingestion exposure route (**Exhibit VIa & Exhibit VIb**) will be remediated through a combination of the following methods:

- (1) Limited soil excavation, removal, and offsite disposal at a permitted landfill;
- (2) Utilization of existing surface soils as an engineered barrier based upon final design elevations; and/or
- (3) Construction of engineered barriers.

All soil excavated from the impacted areas will either be removed from the Remediation Site or used within the Soil Management Zones described in the preceding section. To allow for the proper construction of engineered barriers, surface soils will be excavated to appropriate depths to install the engineered barriers per design specifications and the requirements of the specific engineered barrier being installed. Further detail regarding engineered barriers is provided in the following section. Additional soils will be excavated at the Remediation Site to allow for the installation, removal, and/or replacement of utilities or other development features. Soils removed from the Remediation Site will be properly characterized and disposed in accordance with all local, state, and federal regulations. Waste tracking documentation of soils removed from the Remediation Site will be provided in the RACR.

### 6.4 Engineered Barriers

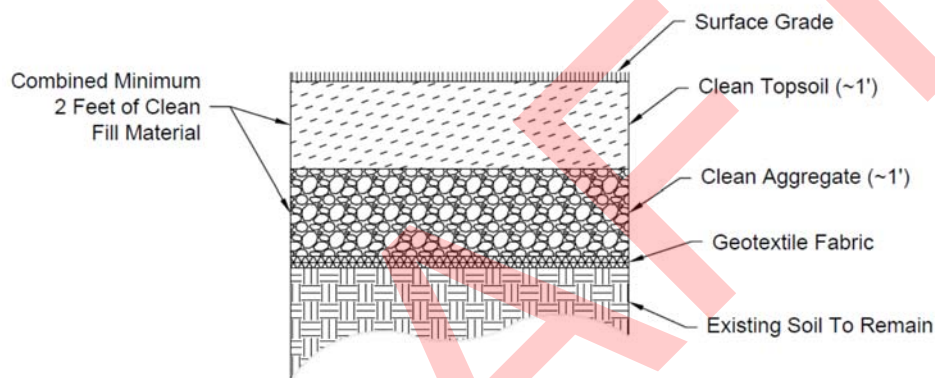
Engineered barriers will be placed over the portions of the Remediation Site in which Tier 1 SRO exceedances were encountered for the residential soil ingestion exposure route. **Exhibit XI** depicts the proposed locations of engineered barriers at the Remediation Site.



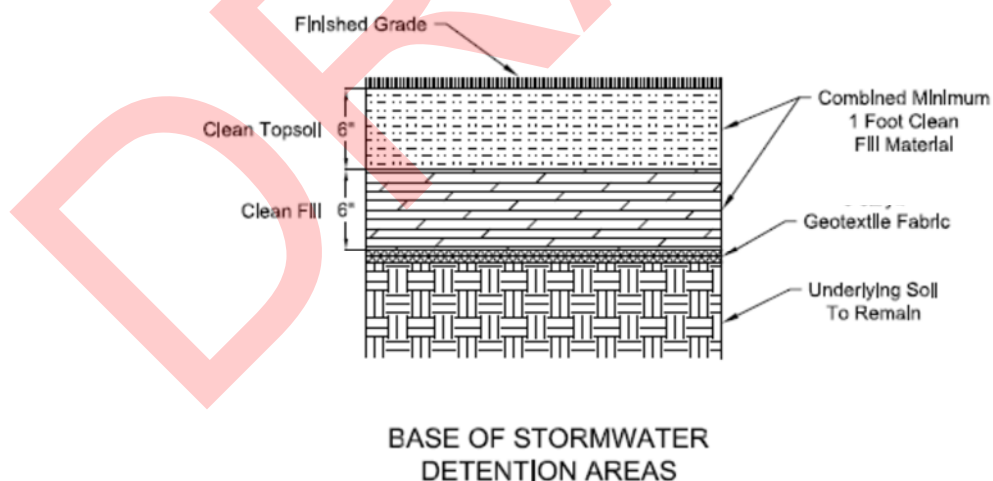
The following proposed engineered barrier types comply with the requirements of 35 IAC 742:

- Asphalt or concrete pavement – 35 IAC 742.1105(c)(2)(A)
- Building slabs/foundations – 35 IAC 742.1105(c)(2)(B)
- Landscaped/playground areas/permeable pavers – 35 IAC 742.1105(c)(2)(C)

An alternative engineered barrier is also being proposed pursuant to 35 IAC 742.1105(d). Landscaped areas requiring engineered barriers will feature a minimum three feet of clean fill material, or, alternatively, a minimum of two feet of clean fill material underlain by geotextile fabric. Detention pond areas requiring engineered barriers will feature a minimum three feet of clean fill throughout, or alternatively, a minimum of three feet of clean fill along the walls of the detention pond and a minimum of twelve inches of clean fill material underlain by geotextile fabric at the base. The following figures depict a cross-section of the proposed alternative engineered barriers:



**Figure 1. Alternative Engineered Barrier Cross-Section – Type A**



**Figure 2. Alternative Engineered Barrier Cross-Section – Type B**

All imported fill material used for engineered barriers will meet the requirements of 35 IAC 742 Subpart K. All imported soil will be verified to meet Tier 1 residential SROs for the analytes listed in 35 IAC 740, Appendix A. Each type of soil utilized for engineered barriers will be

sampled and analyzed at a rate of one sample per 500 cubic yards of imported material. Materials obtained from a virgin quarry will not be sampled. Imported fill will be screened as it arrives onsite to ensure that it is consistent with the approved source material.

#### 6.4.1 Geotextile Fabric

Geotextile material used in the proposed alternate barrier will feature sufficient properties to maintain the integrity of the barrier. The geotextile fabric will meet or exceed the product specifications listed in **Table F**, below:

**Table F – Minimum Geotextile Fabric Specifications**

Tested Property	Test Method	Frequency	Minimum Average Roll Value
AASHTO M288 Class	--	--	2
Mass per Unit Area, oz/yd <sup>2</sup>	ASTM D 5261	90,000 ft <sup>2</sup>	8
Grab Tensile Strength, lb	ASTM D 4632	90,000 ft <sup>2</sup>	205
Grab Elongation, %	ASTM D 4632	90,000 ft <sup>2</sup>	50
CBR Puncture Strength, lb	ASTM D 6241	540,000 ft <sup>2</sup>	535
Trapezoidal Tear Strength, lb	ASTM D 4533	90,000 ft <sup>2</sup>	85
Apparent Opening Size, Sieve No. (mm)	ASTM D 4751	540,000 ft <sup>2</sup>	80 (0.180)
Permittivity, sec <sup>-1</sup>	ASTM D 4491	540,000 ft <sup>2</sup>	1.35
Water Flow Rate, gpm/ft <sup>2</sup>	ASTM D 4491	540,000 ft <sup>2</sup>	90
UV Resistance % retained after 500 hours	ASTM D 4355	Per Formulation	70

Samples of geotextile fabric meeting these requirements have been provided to the IEPA with this report for evaluation.

#### 6.5 UST Removal

If a UST is encountered during development activities, the tank will be removed from the Remediation Site. For all UST removal activities, appropriate permits will be obtained and the UST(s) will be removed in accordance with all applicable federal, state and local regulations. UST removal activities will be documented in the RACR.

Should a LUST incident be determined at the Remediation Site, the UST will be removed and limited soils surrounding and below the UST will be excavated to the extent necessary for construction. Pursuant to 35 IAC 734.210(h), confirmation soil samples will be collected for laboratory analysis. One sample will be collected for every 20 feet of wall length. One sample will be taken from the excavation floor beneath each tank with a capacity of less than 1,000 gallons; two samples will be taken beneath each tank with a capacity of more than 1,000 gallons. The soil samples will be analyzed for the applicable indicator contaminants per 35 IAC 734 Appendix A and compared to Tier 1 SROs. Any exceedances will be addressed per 35 IAC 742 and documented in the RACR.

## 6.6 Water Management

During soil excavation and site development activities, any groundwater, rainwater, or other surface water runoff that may be encountered will be visually inspected for evidence of contamination, such as discoloration or sheen. The water will be properly characterized and disposed of in accordance with applicable local, state, and federal regulations. This activity may include the temporary storage of water at the Remediation Site until proper characterization and disposal authorizations are acquired from the appropriate authorities.

## 6.7 Institutional Controls

Institutional controls that will be enacted at the Remediation Site consist of the following:

- All engineered barriers at the Remediation Site must be properly maintained pursuant to 35 IAC 742.1100(d).
- The construction worker caution area depicted on **Exhibit XII** must be designated at the Remediation Site during redevelopment activities. A Site-specific health and safety plan will be required for this project as well as any future construction activities at the Remediation Site.
- In accordance with the City of Chicago groundwater ordinance, no potable water wells shall be installed at the Remediation Site.

Incorporation of these institutional controls into a No Further Remediation (NFR) letter for the Remediation Site will protect future residential and construction worker populations.

## 6.8 Remedial Action Plan Summary

Based on the remediation objectives determination, the applicable exposure pathways have been addressed through the exposure route evaluation, in accordance with 35 IAC 742 Subpart C. The remedial action plan will attain the remedial objectives for the Remediation Site through limited soil excavation and off-site disposal, installation of engineered barriers, and utilization of institutional controls. The following is a tentative schedule for the remediation activities:

- Selective Demolition & Site Preparation: March 2019
- Construction Start: April 2019
- Completion of Engineered Barriers: December 2019

The schedule will be revised, as needed, to adjust for funding source approvals, permitting, construction delays and/or changes.

Soil and water that require removal as part of development activities will be properly characterized and disposed of in accordance with applicable local, state, and federal regulations. Upon completion of the project, institutional controls in the form of a NFR letter will be enacted to require the maintenance of engineered barriers, and implementation of site-specific worker safety precautions for future construction activities. Upon completion of the proposed remediation activities, in accordance with the RAP, all potential exposure routes at the Remediation Site will be excluded from further consideration in accordance with 35 IAC 742.

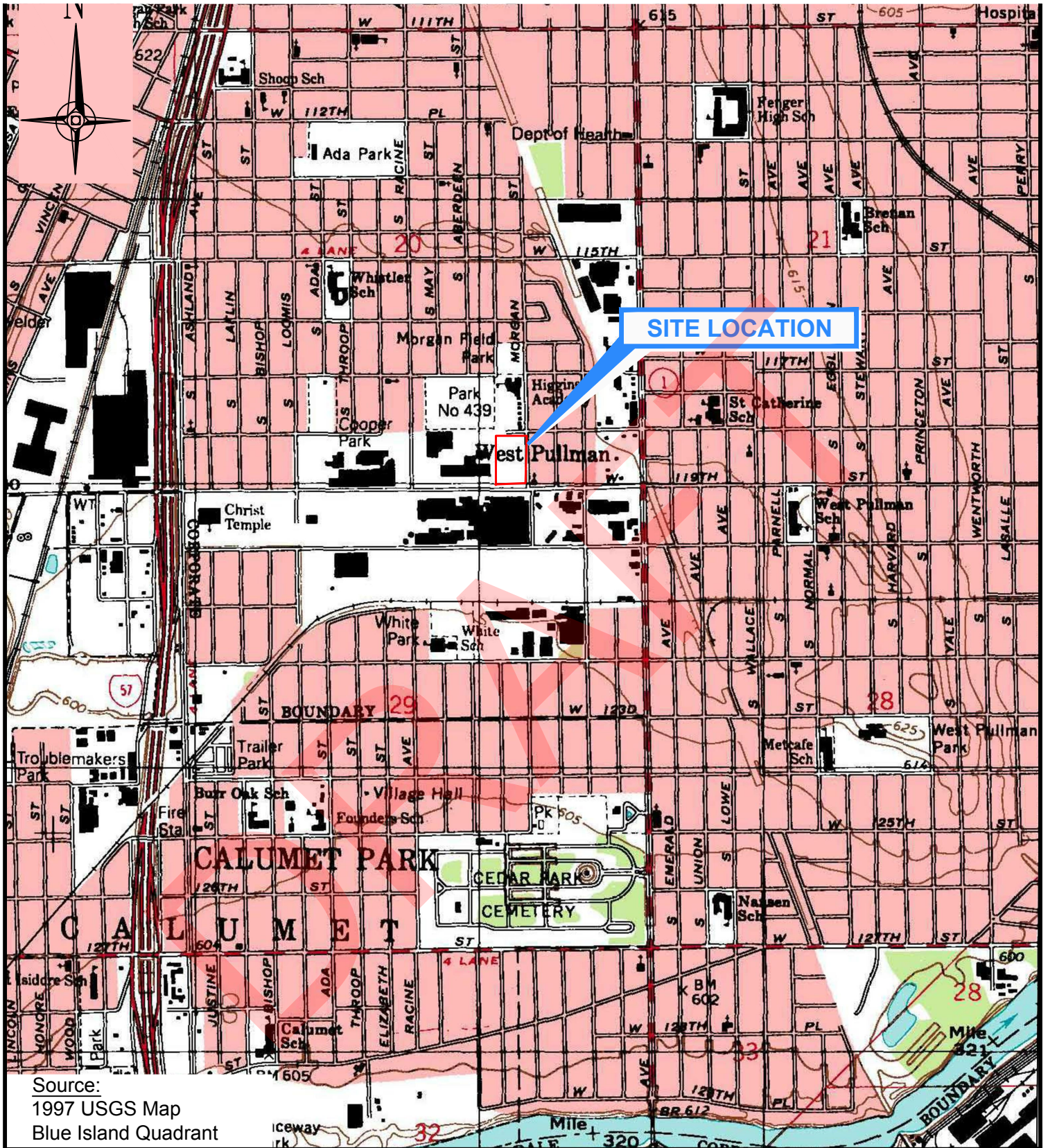
Carnow Conibear, on behalf of the City of Chicago Department of Fleet and Facilities Management, requests that the IEPA approve the RAP for the Remediation Site. Should the IEPA have comments, clarifications or require additional data, we would request that the IEPA consider granting conditional approval of the RAP while these issues are addressed.

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## Exhibits

Exhibit I	Site Location Map
Exhibit II	Site Features Map
Exhibit III	Soil Boring Locations
Exhibit IV	Monitoring Well Locations
Exhibit V	Groundwater Flow Direction
Exhibit VI (a)	Tier 1 SRO Exceedances – Residential Soil Ingestion - PNAs
Exhibit VI (b)	Tier 1 SRO Exceedances – Residential Soil Ingestion - Metals
Exhibit VII	Tier 1 SRO Exceedances – Construction Worker Soil Ingestion
Exhibit VIII	Tier 1 SRO Exceedances – Construction Worker Outdoor Soil Inhalation
Exhibit IX	Tier 1 SRO Exceedances – Soil Component of Class II Groundwater Ingestion
Exhibit X	Site Development Plan
Exhibit XI	Proposed Engineered Barriers
Exhibit XII	Construction Worker Caution Area
Exhibit XIII	Soil Management Zone

*\*Additional Exhibits Specific to Tier 2 & Groundwater Calculations are provided in Appendix E*



**SITE LOCATION**

Source:  
1997 USGS Map  
Blue Island Quadrant

Date: December 2018  
 Drawn by: KZ  
 Checked by: DSB

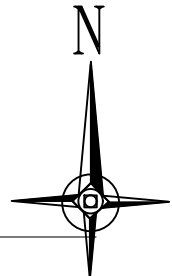
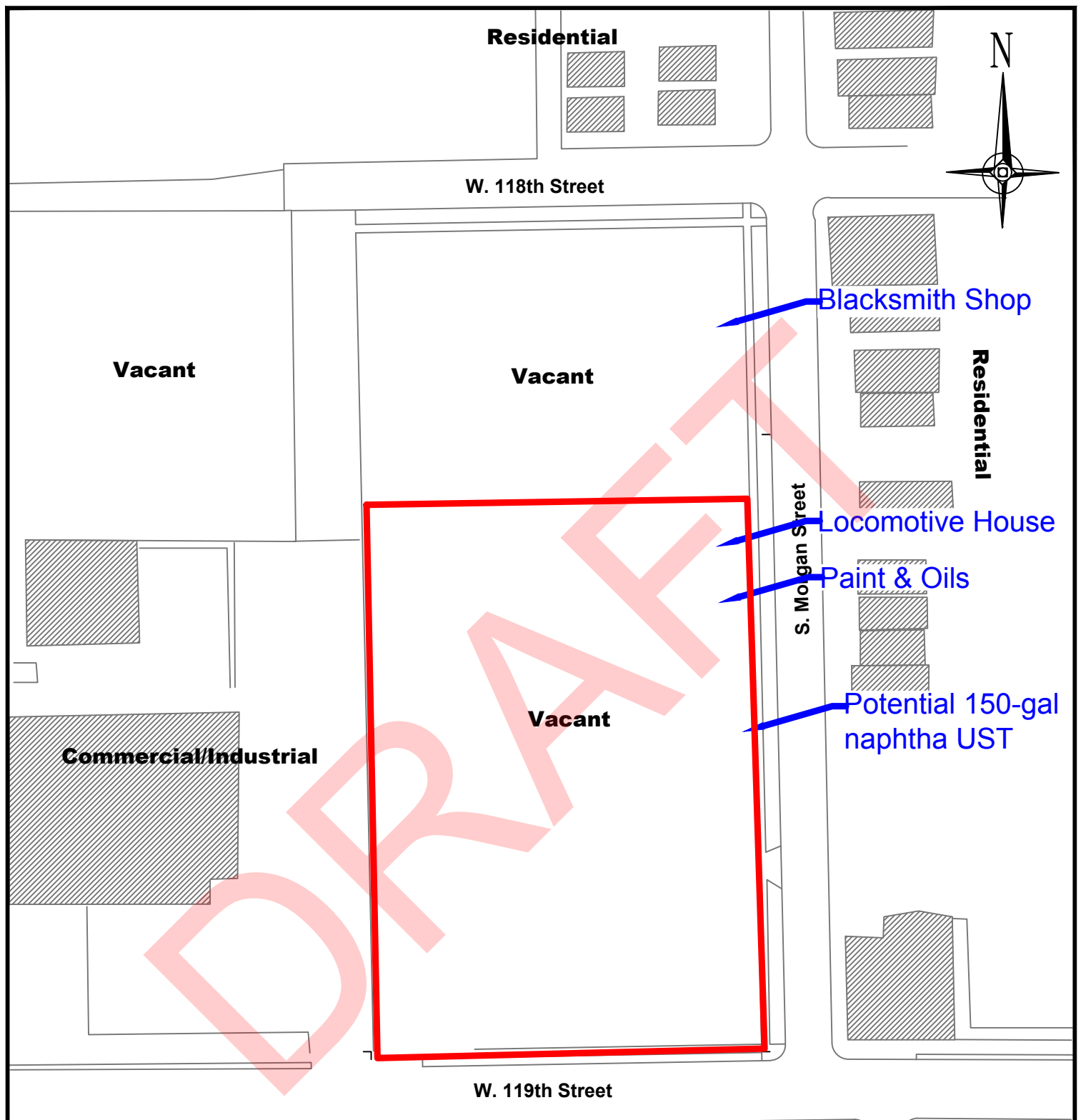
**Exhibit I: Site Location Map**  
 Proposed Engine 115 Fire Station - Site B  
 NW Corner of S. Morgan St. & W. 119th St..  
 Chicago, Illinois 60643

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**LEGEND**

 Remediation Site Boundary

**Vacant/Industrial**

Date: December 2018  
 Scale: 1"= 100'  
 Drawn by: NM, KZ  
 Checked by: DSB

**Exhibit II: Site Features Map**  
 Proposed Engine 115 Fire Station - Site B  
 Northwest Corner of W. 119th St. & S. Morgan St.  
 Chicago, Illinois 60643

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W. 118th Street

Vacant

Vacant

B-113B/  
MW-113B

SB-10

B-205B

B-104B

B-109B

SB-12

B-114B

SB-9

B-206B

B-110B

B-105B/  
MW-105B

B-207B

B-209B

SB-5

B-118B

B-208B

SB-8

B-115B

B-210B

B-106B

Commercial/Industrial

B-212B

B-111B

B-211B

B-116B/  
MW-116B

B-213B

B-117B

SB-4

SB-1

B-107B

B-214B

SB-3

S. Morgan Street

Residential

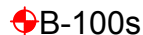
W. 119th Street

Vacant/Industrial

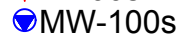
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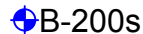
Remediation Site  
Boundary



B-100s  
Soil Borings



MW-100s  
Monitoring Wells



B-200s  
Soil Borings



SB-1s  
Soil Borings - CDM 1999

Date: December 2018  
Scale: 1"= 90'  
Drawn by: NM, KZ  
Checked by: DSB

**Exhibit III: Soil Boring Locations**  
Proposed Engine 115 Fire Station - Site B  
NW Corner of W. 119th St. & S. Morgan St. Chicago, Illinois 60643

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W. 118th Street

Vacant

Vacant

MW-113B



MW-105B



S. Morgan Street

Residential

Commercial/Industrial

MW-116B



W. 119th Street

Vacant/Industrial

**LEGEND**



Remediation Site Boundary



MW-100s Monitoring Wells

Date: December 2018  
Scale: 1"= 90'  
Drawn by: NM, KZ  
Checked by: DSB

**Exhibit IV: Monitoring Well Locations**  
Proposed Engine 115 Fire Station - Site B  
NW Corner of W. 119th St. & S. Morgan St. Chicago, Illinois 60643

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Site B\Draw\Exhibits.dwg

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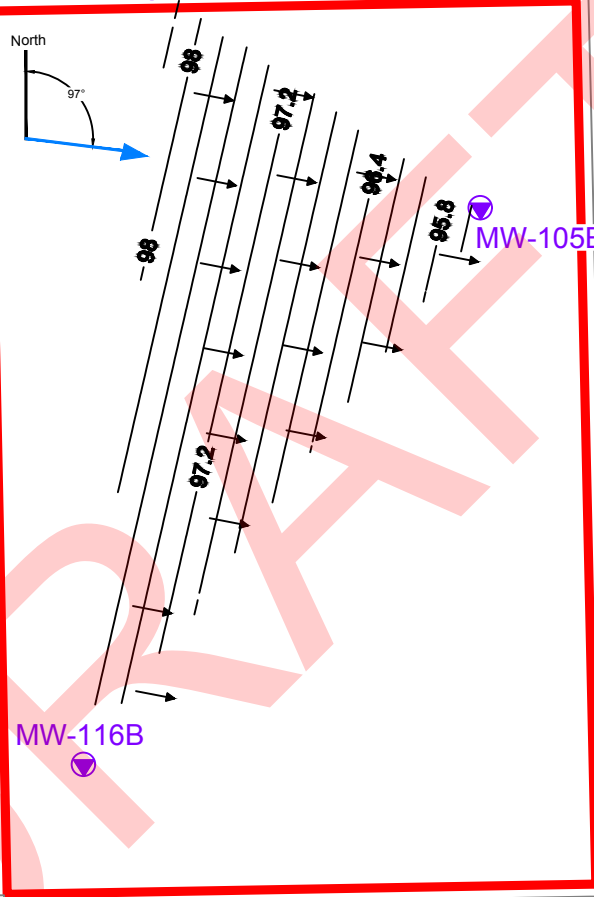
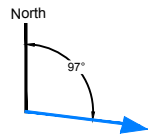


W. 118th Street

Vacant

Vacant

MW-113B



S. Morgan Street

Residential

Commercial/Industrial

W. 119th Street

Vacant/Industrial

**LEGEND**

- Remediation Site Boundary
- MW-100s Monitoring Wells

Date: December 2018  
 Scale: 1"= 90'  
 Drawn by: NM, KZ  
 Checked by: DSB

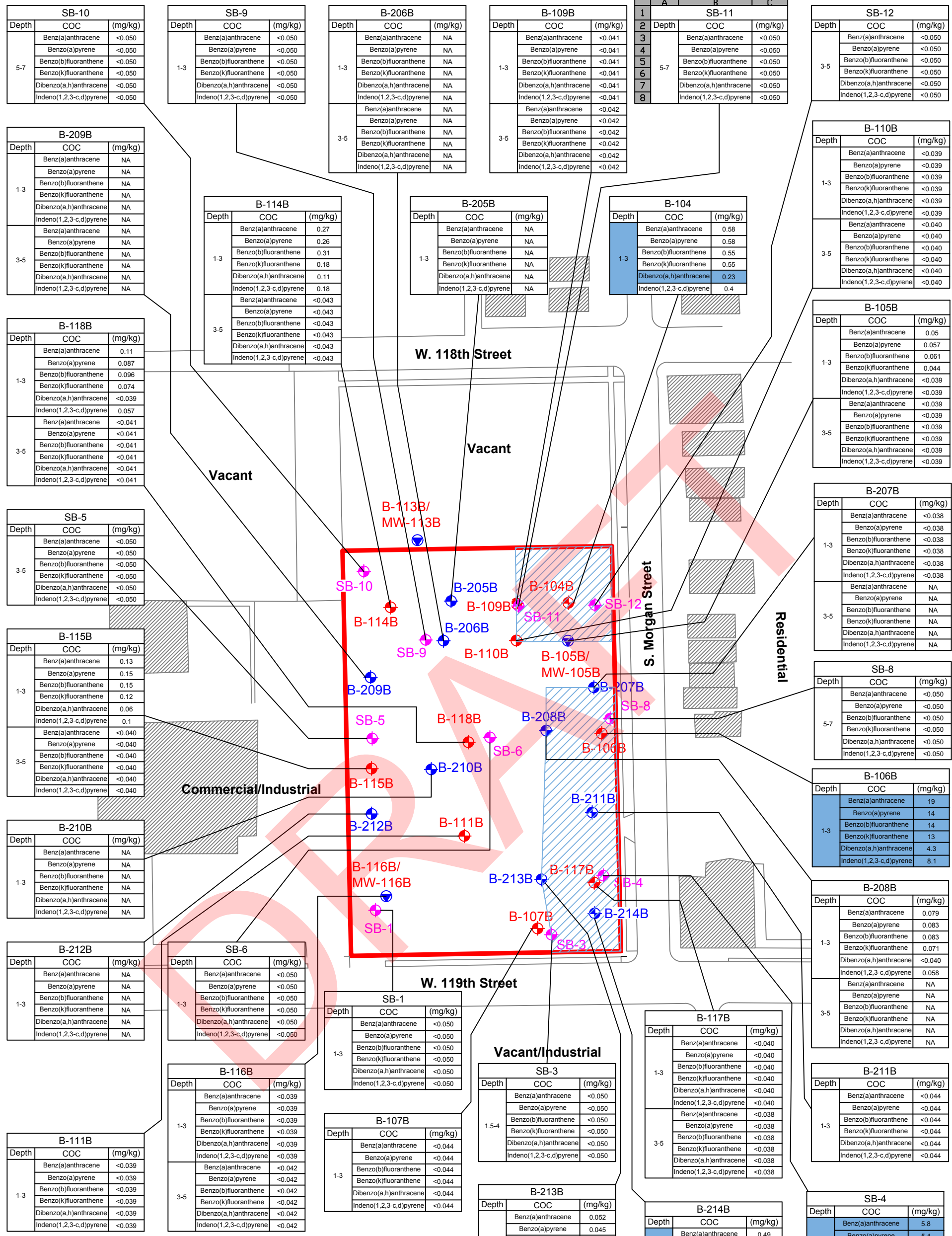
**Exhibit V: Groundwater Flow Direction**  
 Proposed Engine 115 Fire Station - Site B  
 NW Corner of W. 119th St. & S. Morgan St. Chicago, Illinois 60643

Your Environmental Resource

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Soil Boring		
Depth	COC	(mg/kg)
Tier 1 SROs		
COC		(mg/kg)
Benz(a)anthracene		0.58
Benzo(a)pyrene		0.58
Benzo(b)fluoranthene		<0.039
Benzo(k)fluoranthene		0.55
Dibenzo(a,h)anthracene		0.23
Indeno(1,2,3-c,d)pyrene		0.4

[Shaded] = Soil Sample Exceeding Tier 1 Soil Remediation Objective (SRO)

Notes:  
 1. COC = Contaminant of Concern.  
 2. All depths provided in feet below ground surface (bgs).

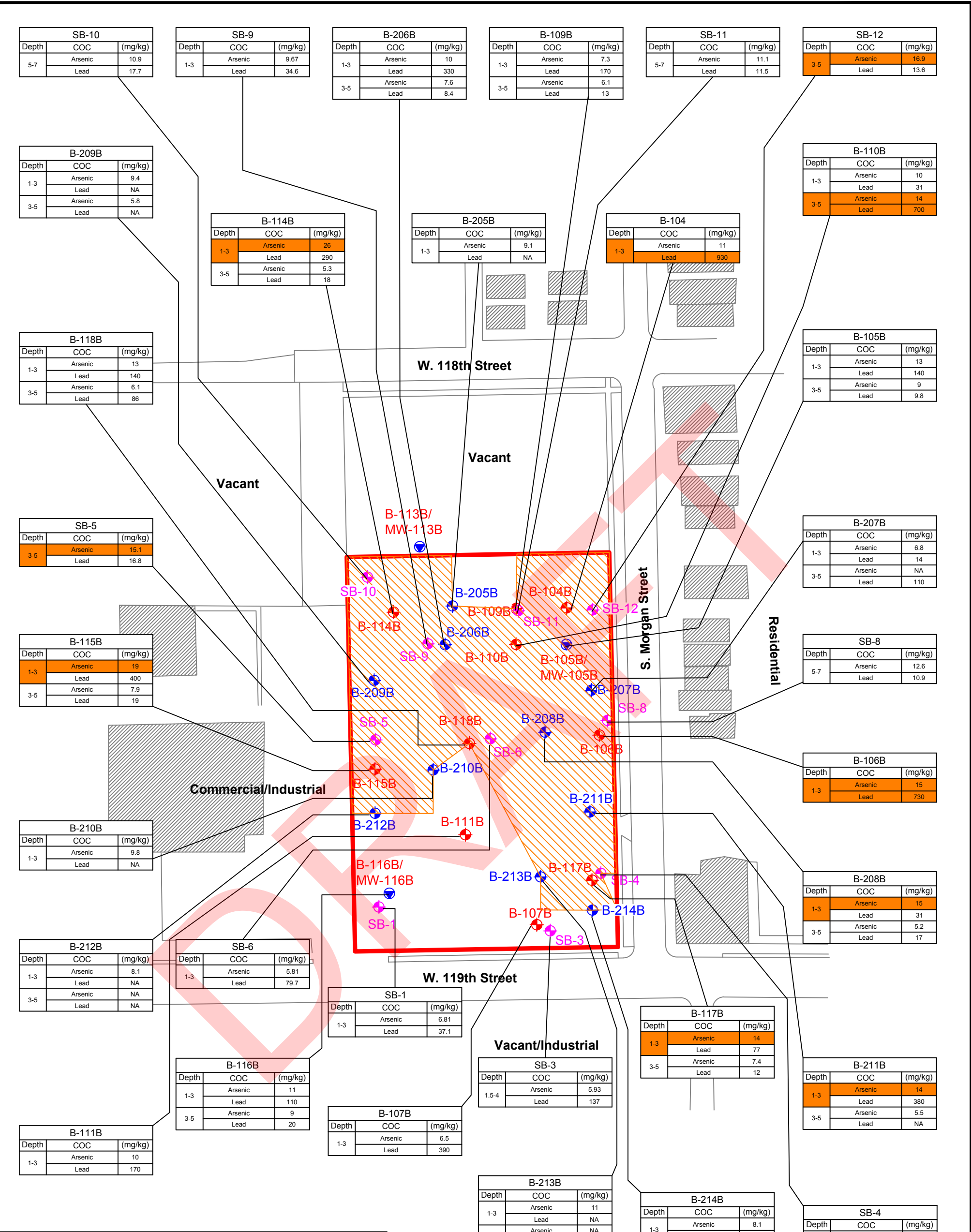
**LEGEND**

- Red outline: Remediation Site Boundary
- Pink circle: CDM Soil Borings
- Blue circle: CCA 200s Soil Borings
- Red circle: CCA 100s Soil Borings
- Blue circle: Monitoring Well
- Blue hatched area: Estimated Extent of Soils Exceeding Tier 1 SRO

Date: December 2018  
 Scale: 1"=100'  
 Drawn by: NM, KZ  
 Checked by: DB

**Exhibit VI (a): Tier 1 SRO Exceedances Residential Soil Ingestion - PNAs**  
 Proposed Engine 115 Fire Station - Site B  
 NW Corner of W. 119th St. & S. Morgan St., Chicago, Illinois 60643

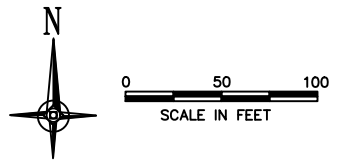
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Soil Boring	[Shaded] = Soil Sample Exceeding Tier 1 Soil Remediation Objective (SRO)	
Depth	COC	(mg/kg)

Tier 1 SROs	
COC	(mg/kg)
Arsenic	13
Lead	400

**Notes:**  
 1. COC = Contaminant of Concern.  
 2. All depths provided in feet below ground surface (bgs).



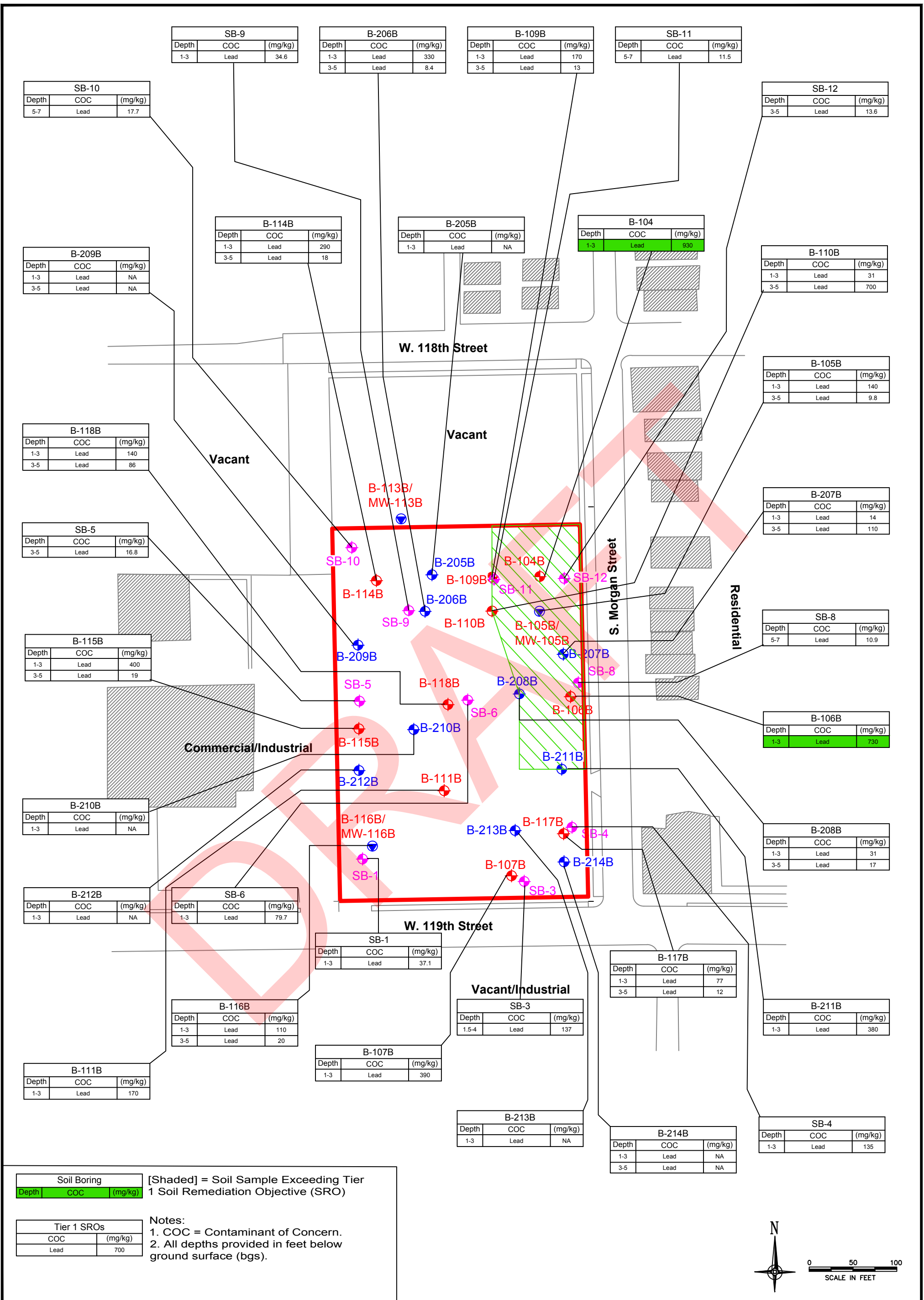
Date: December 2018  
 Scale: 1"=100'  
 Drawn by: NM  
 Checked by: DB

**LEGEND**

- Remediation Site Boundary
- CDM Soil Borings
- CCA 200s Soil Borings
- CCA 100s Soil Borings
- Monitoring Well
- Estimated Extent of Soils Exceeding Tier 1 SRO

**Exhibit VI (b): Tier 1 SRO Exceedances  
 Residential Soil Ingestion - Metals**  
 Proposed Engine 115 Fire Station - Site B  
 NW Corner of S. Morgan St. & W. 119th St., Chicago Illinois 60643

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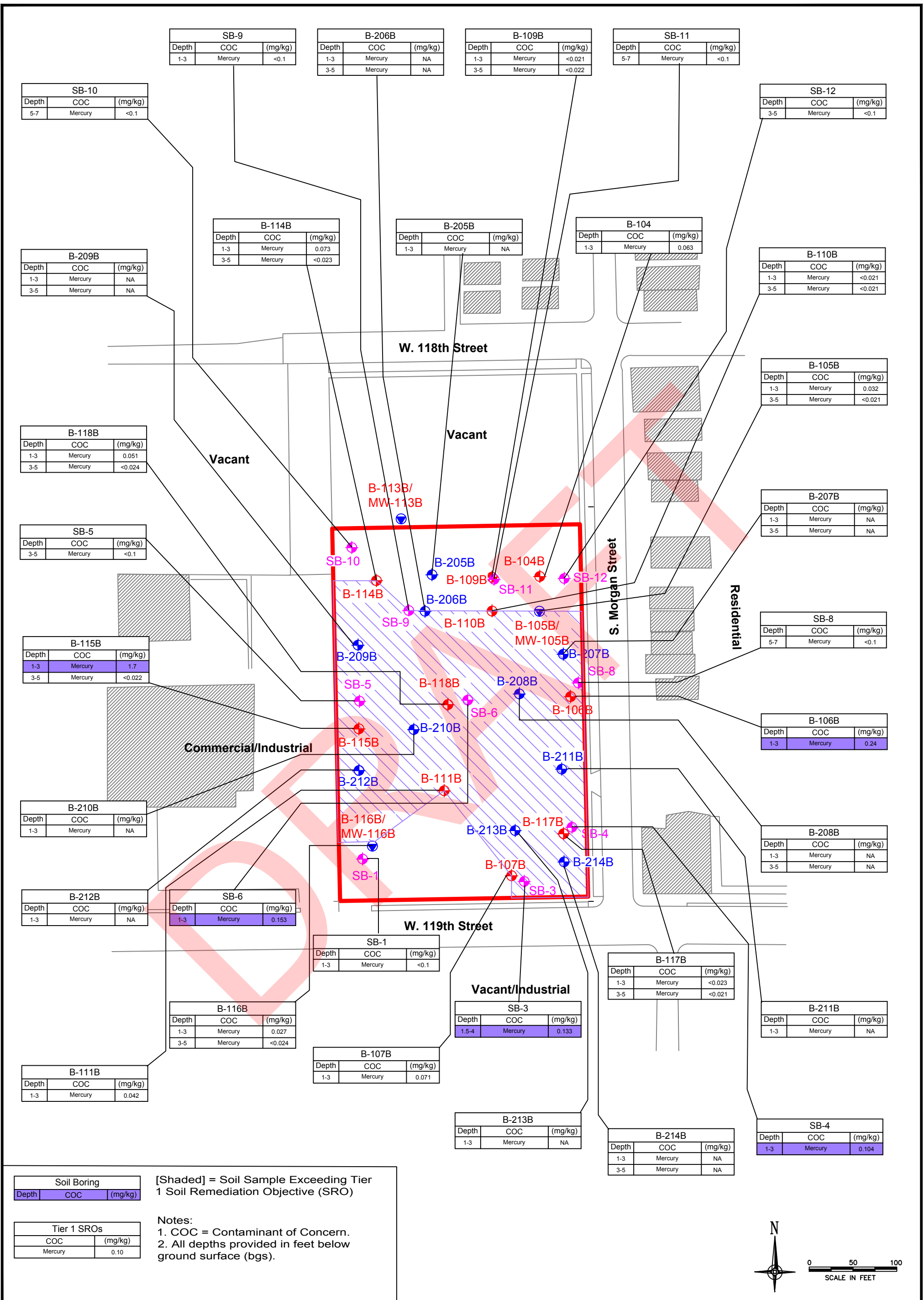


Date: December 2018  
 Scale: 1"=100'  
 Drawn by: NM, KZ  
 Checked by: DB

**LEGEND**

- Red line: Remediation Site Boundary
- Pink circle: CDM Soil Borings
- Blue circle: CCA 200s Soil Borings
- Red circle: CCA 100s Soil Borings
- Blue circle: Monitoring Well
- Green hatched area: Estimated Extent of Soils Exceeding Tier 1 SRO

**Exhibit VII: Tier 1 SRO Exceedances**  
**Construction Worker Soil Ingestion**  
 Proposed Engine 115 Fire Station - Site B  
 NW Corner of S. Morgan St. & W. 119th St., Illinois 60643



Soil Boring		
Depth	COC	(mg/kg)

[Shaded] = Soil Sample Exceeding Tier 1 Soil Remediation Objective (SRO)

Tier 1 SROs		
COC	(mg/kg)	
Mercury	0.10	

Notes:  
 1. COC = Contaminant of Concern.  
 2. All depths provided in feet below ground surface (bgs).

Date: December 2018  
 Scale: 1"=100'  
 Drawn by: NM, KZ  
 Checked by: DB

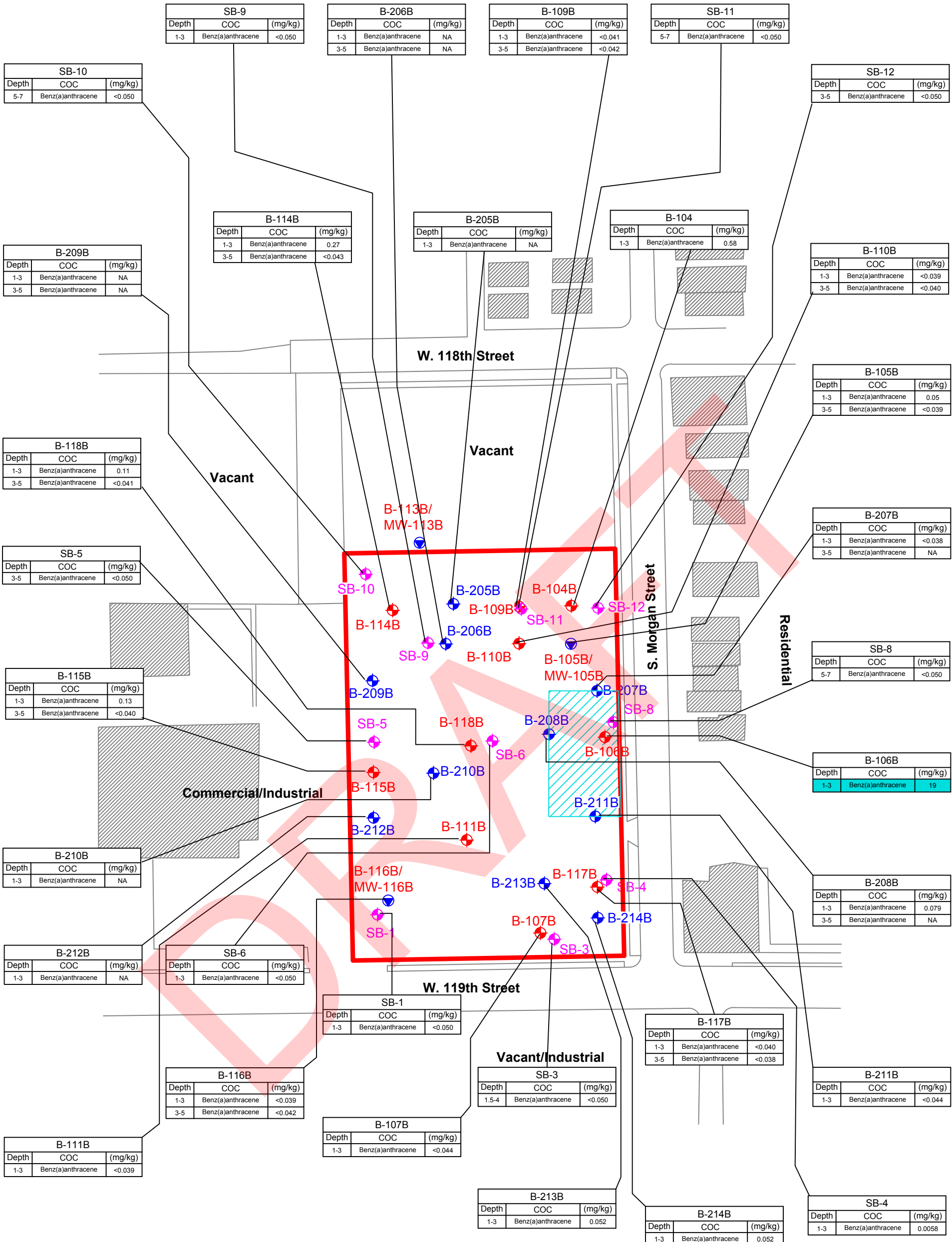
**LEGEND**

- █ Remediation Site Boundary
- CDM Soil Borings
- CCA 200s Soil Borings
- CCA 100s Soil Borings
- Monitoring Well
- Estimated Extent of Soils Exceeding Tier 1 SRO

**Exhibit VIII: Tier 1 SRO Exceedances**  
**Construction Worker Soil Inhalation**  
 Proposed Engine 115 Fire Station - Site B  
 NW Corner of S. Morgan St. & W. 119th St., Illinois 60643

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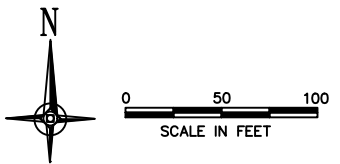


Soil Boring		
Depth	COC	(mg/kg)

[Shaded] = Soil Sample Exceeding Tier 1 Soil Remediation Objective (SRO)

Tier 1 SROs	
COC	(mg/kg)
Benz(a)anthracene	8.0

Notes:  
 1. COC = Contaminant of Concern.  
 2. All depths provided in feet below ground surface (bgs).



Date: December 2018  
 Scale: 1"=100'  
 Drawn by: NM, KZ  
 Checked by: DB

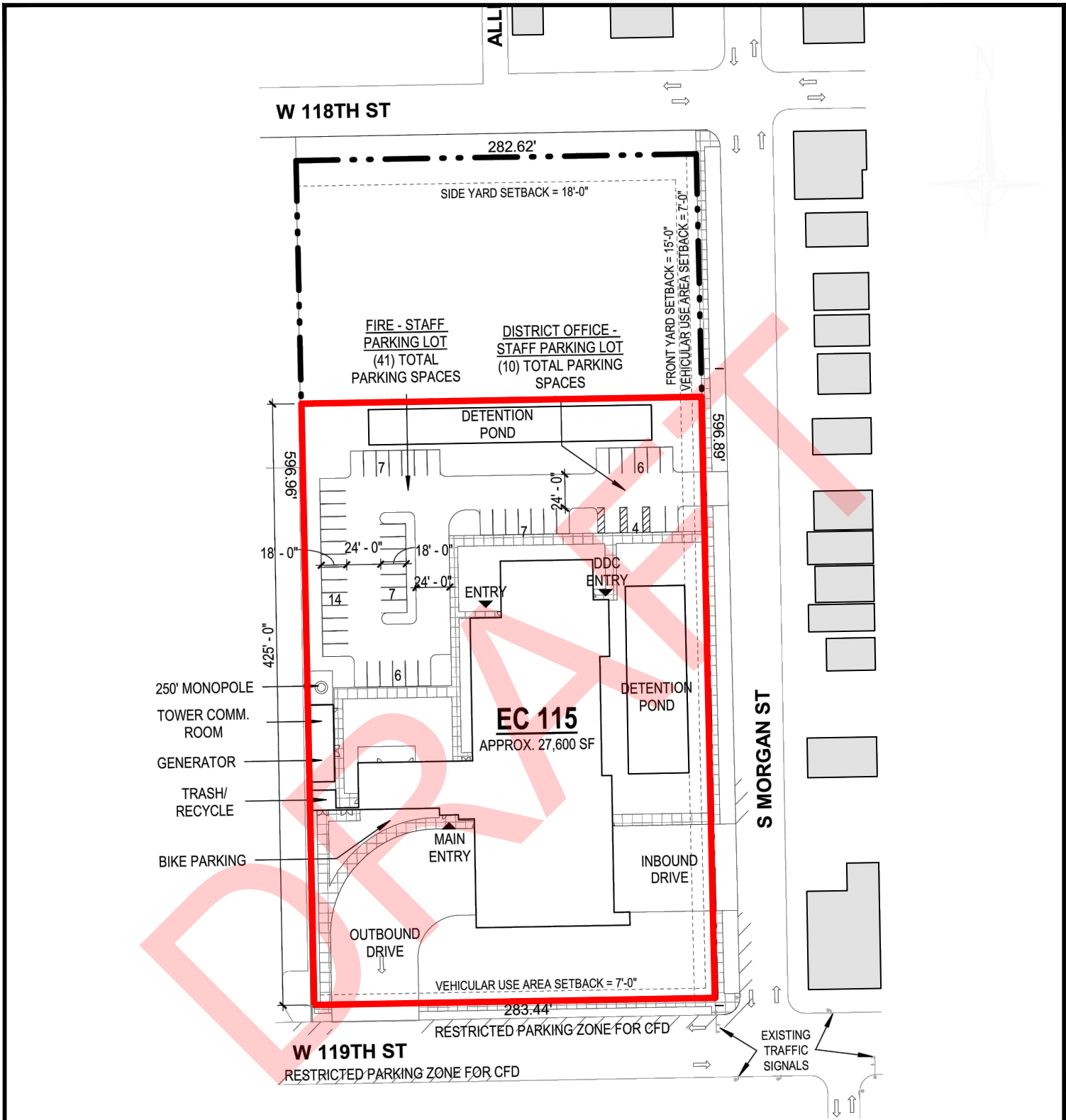
**LEGEND**

- █ Remediation Site Boundary
- CDM Soil Borings
- CCA 200s Soil Borings
- CCA 100s Soil Borings
- Monitoring Well
- █ Estimated Extent of Soils Exceeding Tier 1 SRO

**Exhibit IX: Tier 1 SRO Exceedances**  
**Soil Component to Groundwater Ingestion**  
 Proposed Engine 115 Fire Station - Site B  
 NW Corner of S. Morgan St. & W. 119th St., Illinois 60643

Carnow, Conibear & Assoc., Ltd.  
 Environmental Consulting Services  
 600 W. Van Buren St., Suite 500, Chicago, IL 60607  
 t: 312.782.4486 f: 312.782.5145  
 www.ccaltd.com





**LEGEND**  
 Remediation Site Boundary

Date: December 2018  
 Scale: 1"= 90'  
 Drawn by: NM, KZ  
 Checked by: DSB

**Exhibit X: Site Development Plan**  
 Proposed Engine 115 Fire Station - Site B  
 NW Corner of W. 119th St. & S. Morgan St. Chicago, Illinois 60643

*Your Environmental Resource*  
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 Site B\Draw\Exhibits.dwg

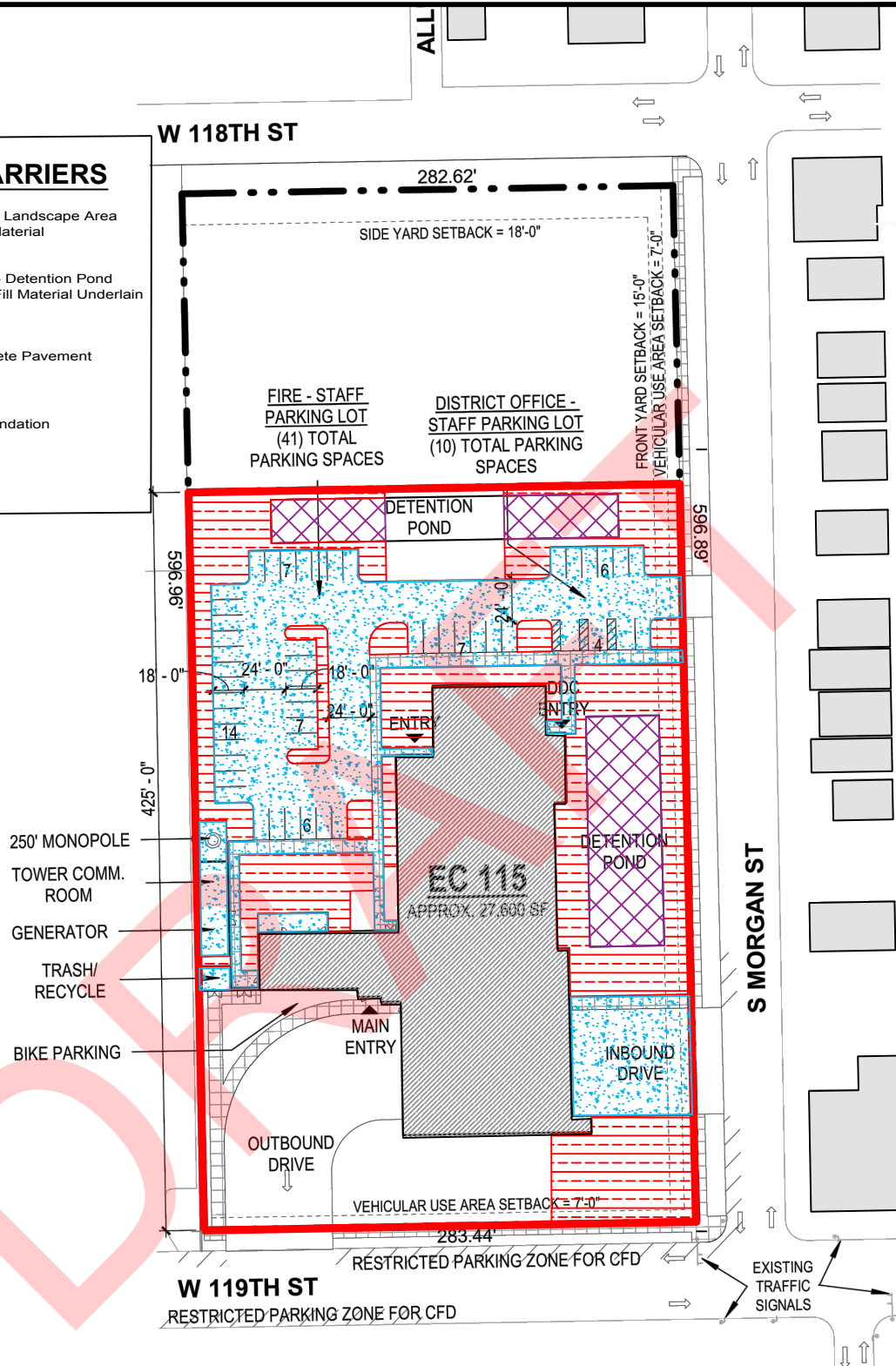
Carnow, Conibear & Assoc., Ltd.  
 Environmental Consulting Services  
 600 W. Van Buren St., Suite 500, Chicago, IL 60607  
 t: 312.782.4486 f: 312.782.5145  
 www.ccaltd.com






### ENGINEERED BARRIERS

-  Ingestion Barrier - Landscape Area  
3 feet Clean Fill Material
-  Ingestion Barrier - Detention Pond  
12 inches Clean Fill Material Underlain  
with Geotextile
-  Asphalt or Concrete Pavement
-  Building Slab/Foundation



### LEGEND

-  Remediation Site Boundary

Date: December 2018  
 Scale: 1"= 90'  
 Drawn by: NM, KZ  
 Checked by: DSB

**Exhibit XI: Proposed Engineered Barriers**  
 Proposed Engine 115 Fire Station - Site B  
 NW Corner of W. 119th St. & S. Morgan St. Chicago, Illinois 60643

Your Environmental Resource

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 Site B\Draw\Exhibits.dwg

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W. 118th Street

Vacant

Vacant

B-113B/  
MW-113B

SB-10

B-205B

B-104B

B-114B

B-109B

SB-11

SB-12

SB-9

B-206B

B-110B

B-105B/  
MW-105B

B-207B

B-209B

SB-5

B-118B

B-208B

SB-8

B-115B

B-210B

SB-6

B-106B

B-212B

B-111B

B-211B

B-116B/  
MW-116B

B-213B

B-117B

SB-4

SB-1

B-107B

B-214B

SB-3

S. Morgan Street


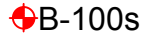

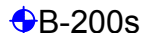
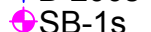

Residential

Commercial/Industrial

W. 119th Street

Vacant/Industrial

**LEGEND**

-  Remediation Site Boundary
-  B-100s Soil Borings
-  MW-100s Monitoring Wells
-  B-200s Soil Borings
-  SB-1s Soil Borings - CDM 1999
-  Construction Worker Caution Area

Date: December 2018  
 Scale: 1"= 90'  
 Drawn by: NM, KZ  
 Checked by: DSB

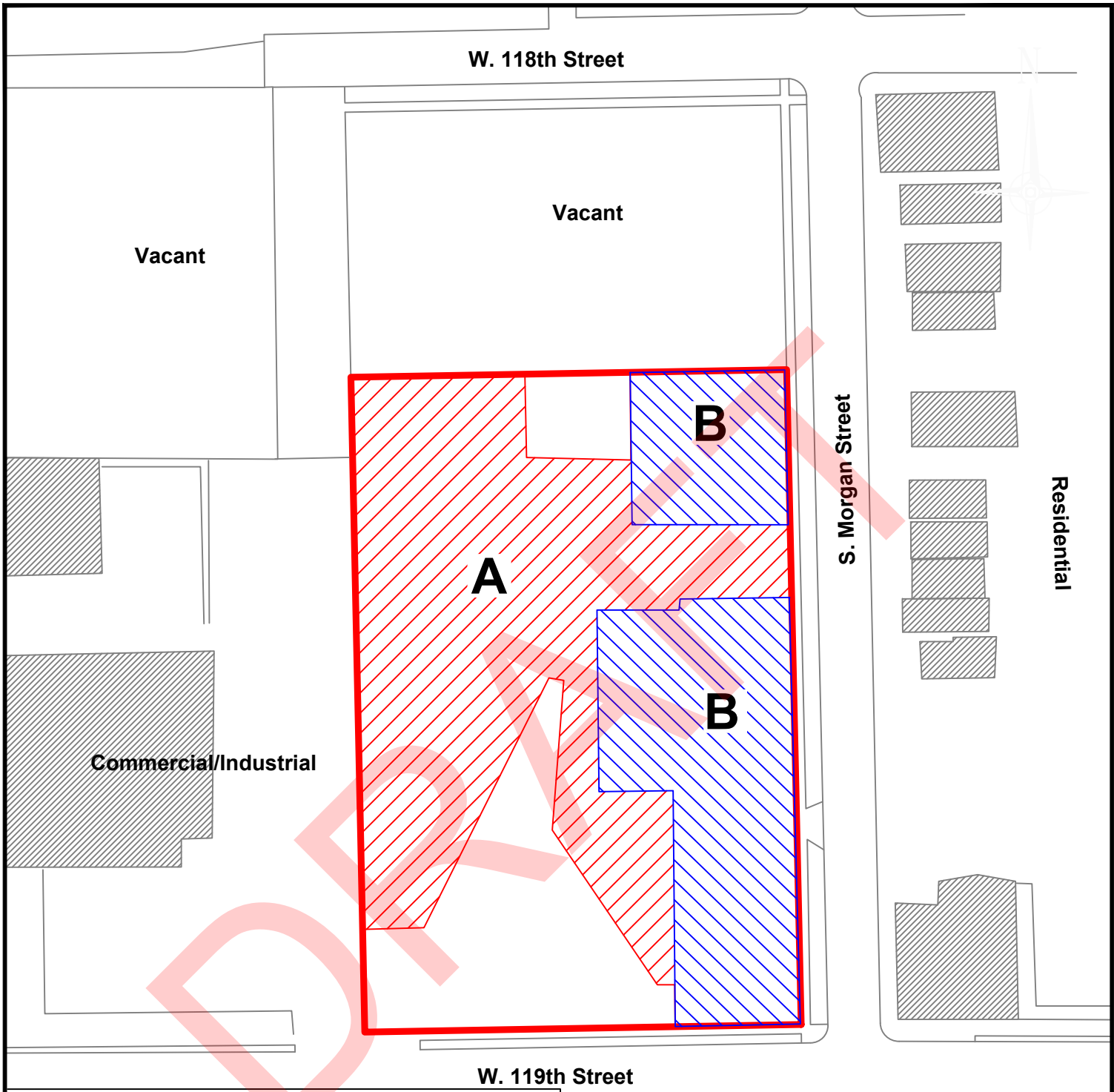
**Exhibit XII: Construction Worker Caution Area**  
 Proposed Engine 115 Fire Station - Site B  
 NW Corner of W. 119th St. & S. Morgan St., Chicago, Illinois 60643

Your Environmental Resource




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**LEGEND**

-  Remediation Site Boundary
-  Soil Management Zone A - Metals
-  Soil Management Zone B - Metals & PNAs

Vacant/Industrial

Date: December 2018  
 Scale: 1"= 90'  
 Drawn by: NM, KZ  
 Checked by: DSB

**Exhibit XIII: Soil Management Zone**  
 Proposed Engine 115 Fire Station - Site B  
 NW Corner of W. 119th St. & S. Morgan St., Chicago, Illinois 60643

## Tables

Table I	Analytical Parameters of Soil Samples
Table II	Soil Analytical Results – VOCs
Table III	Soil Analytical Results – SVOCs
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Table VI	Soil Analytical Results – Inorganics
Table VII	Soil Analytical Results – pH-Specific Inorganics
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Table IX	Soil Analytical Results – TPH
Table X	Groundwater Analytical Results – VOCs
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Table XII	Groundwater Analytical Results – PNAs
Table XIII	Groundwater Analytical Results – Pesticides & PCBs
Table XIV	Groundwater Analytical Results – Inorganics

DRAFT

**Table I  
Analytical Parameters for Soil Samples**

Analysis	Sample	B-104B (1-3)	B-105B (1-3)	B-105B (3-5)	B-106B (1-3)	B-107B (1-3)	B-109B (1-3)	B-109B (3-5)	B-110B (1-3)
	Date	11/12/2018	11/12/2018	11/12/2018	10/26/2018	10/16/158	11/12/2018	11/12/2018	11/12/2018
	Depth (ft)	1'-3'	1'-3'	3'-5'	1'-3'	1'-3'	1'-3'	3'-5'	1'-3'
<b>Target Compound List</b>			X	X					
pH		X			X	X	X	X	X
VOCs		X			X	X	X	X	X
SVOCs		X			X	X	X	X	X
PNAAs		X			X	X	X	X	X
Pesticides					X	X			
PCBs		X			X	X	X	X	X
RCRA Metals		X					X	X	X
TAL Metals					X	X			
Total Lead									
Dibenz(a,h)anthracene									
Total Iron									
TPH			X	X					
Arsenic									
foc									X
SP/CP	Aluminum								
	Cobalt								
	Iron								
	Manganese								
	Lead		X						
TC/CP	Chromium								
	Aluminum								
	Iron								
	Lead		X						

**Table I  
Analytical Parameters for Soil Samples**

Analysis	Sample	B-110B (3-5)	B-111B (1-3)	B-114B (1-3)	B-114B (3-5)	B-115B (1-3)	B-115B (3-5)	B-116B (1-3)	B-116B (3-5)
	Date	11/12/2018	10/16/2018	11/13/2018	11/13/2018	11/13/2018	11/13/2018	11/12/2018	11/12/2018
	Depth (ft)	3'-5'	1'-3'	1'-3'	3'-5'	1'-3'	3'-5'	1'-3'	3'-5'
Target Compound List								X	X
pH		X	X	X	X	X	X		
VOCs		X	X			X	X		
SVOCs		X	X	X	X	X	X		
PNA's		X	X	X	X	X	X		
Pesticides			X	X	X				
PCBs		X	X						
RCRA Metals		X		X	X	X	X		
TAL Metals			X			X	X		
Total Lead									
Dibenz(a,h)anthracene									
Total Iron									
TPH								X	X
Arsenic									
foc									
SPLP	Aluminum								
	Cobalt								
	Iron							X	
	Manganese								
	Lead		X						
TCP	Chromium			X					
	Aluminum								
	Iron							X	
	Lead	X							

**Table I  
Analytical Parameters for Soil Samples**

Analysis	Sample	B-117B (1-3)	B-117B (3-5)	B-118B (1-3)	B-118B (3-5)	B-205B (1-3)	B-206B (1-3)
	Date	11/13/2018	11/13/2018	11/13/2018	11/13/2018	11/29/2018	11/29/2018
	Depth (ft)	1'-3'	3'-5'	1'-3'	3'-5'	1'-3'	1'-3'
Target Compound List							
pH		X	X	X	X		
VOCs				X	X		
SVOCs		X	X	X	X		
PNAs		X	X	X	X		
Pesticides							
PCBs							
RCRA Metals		X	X	X	X		
TAL Metals							
Total Lead							X
Dibenz(a,h)anthracene							
Total Iron							X
TPH							
Arsenic						X	X
foc							
SPLP	Aluminum						
	Cobalt						
	Iron						
	Manganese						
	Lead						
TCLP	Chromium						
	Aluminum						
	Iron						
	Lead						

**Table I  
Analytical Parameters for Soil Samples**

Analysis	Sample	B206B (3-5)	B-207B (1-3)	B-207B (3-5)	B-208B (1-3)	B-208B (3-5)	B-209B (1-3)	B-209B (3-5)	B-210B (1-3)
	Date	11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018
	Depth (ft)	3'-5'	1'-3'	3'-5'	1'-3'	3'-5'	1'-3'	3'-5'	1'-3'
Target Compound List									
pH									
VOCs									
SVOCs									
PNA's			X		X				
Pesticides									
PCBs									
RCRA Metals									
TAL Metals									
Total Lead		X	X	X	X	X			
Dibenz(a,h)anthracene									
Total Iron		X	X		X	X			
TPH									
Arsenic		X	X		X	X	X	X	X
foc									
SPLP	Aluminum								
	Cobalt								
	Iron								
	Manganese								
	Lead								
TCP	Aluminum								
	Iron								
	Lead								



**Table I  
Analytical Parameters for Soil Samples**

Analysis	Sample	B-211B (1-3)	B-211B (3-5)	B-212B (1-3)	B-213B (1-3)	B-214B (1-3)	B-214B (3-5)
	Date	11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018	11/29/2018
	Depth (ft)	1'-3'	3'-5'	1'-3'	1'-3'	1'-3'	3'-5'
Target Compound List							
pH							
VOCs							
SVOCs							
PNA's		X			X	X	
Pesticides							
PCBs							
RCRA Metals							
TAL Metals							
Total Lead		X					
Dibenz(a,h)anthracene							X
Total Iron							
TPH							
Arsenic		X	X	X	X	X	
foc							
SPLP	Aluminum						
	Cobalt						
	Iron						
	Manganese						
	Lead						
TCLP	Chromium						
	Aluminum						
	Iron						
Lead							

**Table I  
Analytical Parameters for Soil Samples**

Analysis	Sample	SB-1	SB-3	SB-4	SB-5	SB-6	SB-8	SB-9	SB-10	SB-11	SB-12
	Date	3/9/1999	3/9/1999	3/9/1999	3/9/1999	3/9/1999	3/9/1999	3/9/1999	3/9/1999	3/9/1999	3/9/1999
	Depth (ft)	1'-3'	1.5'-4'	1'-3'	3'-5'	1'-3'	5'-7'	1'-3'	5'-7'	5'-7'	3'-5'
Target Compound List											
pH											
VOCs		X	X	X	X	X	X	X	X	X	X
SVOCs		X	X	X	X	X	X	X	X	X	X
PNAs		X	X	X	X	X	X	X	X	X	X
Pesticides		X									
PCBs		X						X			
RCRA Metals		X	X	X	X	X	X	X	X	X	X
TAL Metals											
Total Lead											
Dibenz(a,h)anthracene											
Total Iron											
TPH											
Arsenic											
foc											
SPLP	Aluminum										
	Cobalt										
	Iron										
	Manganese										
	Lead										
TCLP	Chromium										
	Aluminum										
	Iron										
	Lead										

Table II

Soil Analytical Results - VOCs

Analyte	IEPA SROs						C <sub>SAT</sub> Outdoor Inhalation	C <sub>SAT</sub> SC of GW Ing	Sample Date Depth (ft)	B-104B (1-3)	B-105B (1-3)	B-105B (3-5)	B-106B (1-3)	B-107B (1-3)	B-109B (1-3)
	Residential		Construction Worker		G.W. Ing.	ADL				11/12/18	11/12/18	11/12/18	10/16/18	10/16/18	11/12/18
	Ingestion	Inhalation	Ingestion	Inhalation	Class II		1-3	1-3	3-5	1-3	1-3	1-3			
Acetone	70,000	100,000	NC	100,000	25	*	100,000	200,000	< 0.12	< 0.069	< 0.089	< 0.075	< 0.092	< 0.23	
Benzene	12	0.8	2,300	2.2	0.17	*	800	580	< 0.0079	< 0.0046	< 0.0060	< 0.0050	< 0.0061	< 0.015	
Bromodichloromethane	10	3,000	2,000	3,000	0.6	*	2,800	2,000	< 0.0079	< 0.0046	< 0.0060	< 0.0050	< 0.0061	< 0.015	
Bromoform	81	53	16,000	140	0.8	*	2,000	1,200	< 0.0079	< 0.0046	< 0.0060	< 0.0050	< 0.0061	< 0.015	
Bromomethane	110	10	1,000	3.9	1.2	*	3,100	3,600	< 0.015	< 0.0092	< 0.012	< 0.010	< 0.012	< 0.030	
2-Butanone (MEK)	47,000	25,000	120,000	730	17	NE	25,000	45,000	< 0.12	< 0.069	< 0.089	< 0.075	< 0.092	< 0.23	
Carbon Disulfide	7,800	720	20,000	9.0	160	*	850	520	< 0.079	< 0.046	< 0.060	< 0.050	< 0.061	< 0.15	
Carbon Tetrachloride	5.0	0.3	410	0.9	0.33	*	1,200	560	< 0.0079	< 0.0046	< 0.0060	< 0.0050	< 0.0061	< 0.015	
Chlorobenzene	1,600	130	4,100	1.3	6.5	*	620	290	< 0.0079	< 0.0046	< 0.0060	< 0.0050	< 0.0061	< 0.015	
Chloroethane	NC	1,500	NC	97	NC	NE	NE	NE	< 0.015	< 0.0092	< 0.012	< 0.010	< 0.012	< 0.030	
Chloroform	100	0.3	2,000	0.76	2.9	*	3,400	2,500	< 0.0079	< 0.0046	< 0.0060	< 0.0050	< 0.0061	< 0.015	
Chloromethane	NC	110	NC	11	NC	NE	NE	NE	< 0.015	< 0.0092	< 0.012	< 0.010	< 0.012	< 0.030	
Dibromochloromethane	1,600	1,300	41,000	1,300	0.4	*	1,400	890	< 0.0079	< 0.0046	< 0.0060	< 0.0050	< 0.0061	< 0.015	
1,1-Dichloroethane	7,800	1,300	200,000	130	110	*	1,700	1,400	< 0.0079	< 0.0046	< 0.0060	< 0.0050	< 0.0061	< 0.015	
1,2-Dichloroethane	7.0	0.4	1,400	0.99	0.1	*	1,900	2,100	< 0.0079	< 0.0046	< 0.0060	< 0.0050	< 0.0061	< 0.015	
1,1-Dichloroethene	3,900	290	10,000	3.0	0.3	*	1,400	910	< 0.0079	< 0.0046	< 0.0060	< 0.0050	< 0.0061	< 0.015	
cis-1,2-Dichloroethene	780	1,200	20,000	1,200	1.1	*	1,300	1,000	< 0.0079	< 0.0046	< 0.0060	< 0.0050	< 0.0061	< 0.015	
trans-1,2-Dichloroethene	1,600	3,100	41,000	3,100	3.4	*	3,000	2,100	< 0.0079	< 0.0046	< 0.0060	< 0.0050	< 0.0061	< 0.015	
1,2-Dichloropropane	9.0	15	1,800	0.5	0.15	*	1,200	870	< 0.0079	< 0.0046	< 0.0060	< 0.0050	< 0.0061	< 0.015	
cis-1,3-Dichloropropene	6.4	1.1	1,200	0.39	0.02	0.005	1,000	850	< 0.0032	< 0.0018	< 0.0024	< 0.0020	< 0.0025	< 0.0060	
trans-1,3-Dichloropropene	6.4	1.1	1,200	0.39	0.02	0.005	1,000	850	< 0.0032	< 0.0018	< 0.0024	< 0.0020	< 0.0025	< 0.0060	
Ethylbenzene	7,800	400	20,000	58	19	*	350	150	< 0.0079	< 0.0046	< 0.0060	< 0.0050	< 0.0061	< 0.015	
2-Hexanone	NE	NE	NE	NE	NE	NE	NE	NE	< 0.032	< 0.018	< 0.024	< 0.020	< 0.025	< 0.060	
4-Methyl-2-Pentanone (MIBK)	NE	3,100	NE	340	NE	NE	NE	NE	< 0.032	< 0.018	< 0.024	< 0.020	< 0.025	< 0.060	
Methylene Chloride	85	13	12,000	34	0.2	*	2,500	3,000	< 0.015	< 0.0092	< 0.012	< 0.010	< 0.012	< 0.030	
Methyl-tertiary-butyl ether (MTBE)	780	8,800	2,000	140	0.32	*	8,400	1,100	< 0.0079	< 0.0046	< 0.0060	< 0.0050	< 0.0061	< 0.015	
Styrene	16,000	1,500	41,000	430	18	*	630	260	< 0.0079	< 0.0046	< 0.0060	< 0.0050	< 0.0061	< 0.015	
1,1,1,2-Tetrachloroethane	310	2,000	2,000	2,000	0.22	*	NE	NE	< 0.0079	< 0.0046	< 0.0060	< 0.0050	< 0.0061	< 0.015	
Tetrachloroethene	12	11	2,400	28	0.3	*	800	310	< 0.0079	< 0.0046	< 0.0060	< 0.0050	< 0.0061	< 0.015	
Toluene	16,000	650	410,000	42	29	*	580	290	< 0.0079	< 0.0046	< 0.0060	< 0.0050	< 0.0061	< 0.015	
1,1,1-Trichloroethane	NC	1,200	NC	1,200	9.6	*	1,300	670	< 0.0079	< 0.0046	< 0.0060	< 0.0050	< 0.0061	< 0.015	
1,1,2-Trichloroethane	310	1,800	8,200	1,800	0.3	*	1,800	890	< 0.0079	< 0.0046	< 0.0060	< 0.0050	< 0.0061	< 0.015	
Trichloroethene	58	5.0	1,200	12	0.3	*	1,200	650	< 0.0079	< 0.0046	< 0.0060	< 0.0050	< 0.0061	< 0.015	
Vinyl Acetate	78,000	1,000	200,000	10	170	*	2,600	4,200	NA	NA	NA	NA	NA	NA	
Vinyl Chloride	0.46	0.28	170	1.1	0.07	*	2,600	2,900	< 0.0079	< 0.0046	< 0.0060	< 0.0050	< 0.0061	< 0.015	
Xylenes, Total	16,000	320	41,000	5.6	150	*	280	110	< 0.024	< 0.014	< 0.018	< 0.015	< 0.018	< 0.045	

NOTES:

1. All results expressed in milligrams per kilogram (mg/kg).
2. NA = Not analyzed for this constituent.
3. NC = No toxicity criteria for this exposure route.
4. NE = No established IEPA SRO for this analyte.
5. Samples were analyzed by EPA Method SW-5035/8260B.
6. G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
7. **Bold values** = Concentration exceeds soil ing. and/or inh. exposure route for residential Tier 1 SROs.
8. **○** = Concentration exceeds soil ing. and/or inh. exposure route for construction worker Tier 1 SROs.
9. **■** = Concentration exceeds soil component of the groundwater ing. exposure route for Class I and/or Class II Tier 1 SROs.
10. \* = The ADL is less than or equal to the specified remediation objective.
11. SS = Site-specific based upon wet weight of soil.

Table II

Soil Analytical Results - VOCs

Analyte	IEPA SROs						C <sub>SAT</sub> Outdoor Inhalation	C <sub>SAT</sub> SC of GW Ing	Sample Date Depth (ft)	B-109B (3-5)	B-110B (1-3)	B-110B (3-5)	B-111B (1-3)	B-114B (1-3)	B-114B (3-5)
	Residential		Construction Worker		G.W. Ing.	ADL				11/12/18	11/12/18	11/12/18	10/16/18	11/13/18	11/13/18
	Ingestion	Inhalation	Ingestion	Inhalation	Class II		3-5	1-3	3-5	1-3	1-3	3-5			
Acetone	70,000	100,000	NC	100,000	25	*	100,000	200,000	< 0.12	< 0.075	< 0.085	< 0.17	NA	NA	
Benzene	12	0.8	2,300	2.2	0.17	*	800	580	< 0.0082	< 0.0049	< 0.0057	< 0.011	NA	NA	
Bromodichloromethane	10	3,000	2,000	3,000	0.6	*	2,800	2,000	< 0.0082	< 0.0049	< 0.0057	< 0.011	NA	NA	
Bromoform	81	53	16,000	140	0.8	*	2,000	1,200	< 0.0082	< 0.0049	< 0.0057	< 0.011	NA	NA	
Bromomethane	110	10	1,000	3.9	1.2	*	3,100	3,600	< 0.017	< 0.010	< 0.011	< 0.023	NA	NA	
2-Butanone (MEK)	47,000	25,000	120,000	730	17	NE	25,000	45,000	< 0.12	< 0.075	< 0.085	< 0.17	NA	NA	
Carbon Disulfide	7,800	720	20,000	9.0	160	*	850	520	< 0.082	< 0.049	< 0.057	< 0.11	NA	NA	
Carbon Tetrachloride	5.0	0.3	410	0.9	0.33	*	1,200	560	< 0.0082	< 0.0049	< 0.0057	< 0.011	NA	NA	
Chlorobenzene	1,600	130	4,100	1.3	6.5	*	620	290	< 0.0082	< 0.0049	< 0.0057	< 0.011	NA	NA	
Chloroethane	NC	1,500	NC	97	NC	NE	NE	NE	< 0.017	< 0.010	< 0.011	< 0.023	NA	NA	
Chloroform	100	0.3	2,000	0.76	2.9	*	3,400	2,500	< 0.0082	< 0.0049	< 0.0057	< 0.011	NA	NA	
Chloromethane	NC	110	NC	11	NC	NE	NE	NE	< 0.017	< 0.010	< 0.011	< 0.023	NA	NA	
Dibromochloromethane	1,600	1,300	41,000	1,300	0.4	*	1,400	890	< 0.0082	< 0.0049	< 0.0057	< 0.011	NA	NA	
1,1-Dichloroethane	7,800	1,300	200,000	130	110	*	1,700	1,400	< 0.0082	< 0.0049	< 0.0057	< 0.011	NA	NA	
1,2-Dichloroethane	7.0	0.4	1,400	0.99	0.1	*	1,900	2,100	< 0.0082	< 0.0049	< 0.0057	< 0.011	NA	NA	
1,1-Dichloroethene	3,900	290	10,000	3.0	0.3	*	1,400	910	< 0.0082	< 0.0049	< 0.0057	< 0.011	NA	NA	
cis-1,2-Dichloroethene	780	1,200	20,000	1,200	1.1	*	1,300	1,000	< 0.0082	< 0.0049	< 0.0057	< 0.011	NA	NA	
trans-1,2-Dichloroethene	1,600	3,100	41,000	3,100	3.4	*	3,000	2,100	< 0.0082	< 0.0049	< 0.0057	< 0.011	NA	NA	
1,2-Dichloropropane	9.0	15	1,800	0.5	0.15	*	1,200	870	< 0.0082	< 0.0049	< 0.0057	< 0.011	NA	NA	
cis-1,3-Dichloropropene	6.4	1.1	1,200	0.39	0.02	0.005	1,000	850	< 0.0033	< 0.0020	< 0.0022	< 0.0044	NA	NA	
trans-1,3-Dichloropropene	6.4	1.1	1,200	0.39	0.02	0.005	1,000	850	< 0.0033	< 0.0020	< 0.0022	< 0.0044	NA	NA	
Ethylbenzene	7,800	400	20,000	58	19	*	350	150	< 0.0082	< 0.0049	< 0.0057	< 0.011	NA	NA	
2-Hexanone	NE	NE	NE	NE	NE	NE	NE	NE	< 0.033	< 0.020	< 0.022	< 0.044	NA	NA	
4-Methyl-2-Pentanone (MIBK)	NE	3,100	NE	340	NE	NE	NE	NE	< 0.033	< 0.020	< 0.022	< 0.044	NA	NA	
Methylene Chloride	85	13	12,000	34	0.2	*	2,500	3,000	< 0.017	< 0.010	< 0.011	< 0.023	NA	NA	
Methyl-tertiary-butyl ether (MTBE)	780	8,800	2,000	140	0.32	*	8,400	1,100	< 0.0082	< 0.0049	< 0.0057	< 0.011	NA	NA	
Styrene	16,000	1,500	41,000	430	18	*	630	260	< 0.0082	< 0.0049	< 0.0057	< 0.011	NA	NA	
1,1,1,2-Tetrachloroethane	310	2,000	2,000	2,000	0.22	*	NE	NE	< 0.0082	< 0.0049	< 0.0057	< 0.011	NA	NA	
Tetrachloroethene	12	11	2,400	28	0.3	*	800	310	< 0.0082	< 0.0049	< 0.0057	< 0.011	NA	NA	
Toluene	16,000	650	410,000	42	29	*	580	290	< 0.0082	< 0.0049	< 0.0057	< 0.011	NA	NA	
1,1,1-Trichloroethane	NC	1,200	NC	1,200	9.6	*	1,300	670	< 0.0082	< 0.0049	< 0.0057	< 0.011	NA	NA	
1,1,2-Trichloroethane	310	1,800	8,200	1,800	0.3	*	1,800	890	< 0.0082	< 0.0049	< 0.0057	< 0.011	NA	NA	
Trichloroethene	58	5.0	1,200	12	0.3	*	1,200	650	< 0.0082	< 0.0049	< 0.0057	< 0.011	NA	NA	
Vinyl Acetate	78,000	1,000	200,000	10	170	*	2,600	4,200	NA	NA	NA	NA	NA	NA	
Vinyl Chloride	0.46	0.28	170	1.1	0.07	*	2,600	2,900	< 0.0082	< 0.0049	< 0.0057	< 0.011	NA	NA	
Xylenes, Total	16,000	320	41,000	5.6	150	*	280	110	< 0.024	< 0.015	< 0.017	< 0.034	NA	NA	

NOTES:

1. All results expressed in milligrams per kilogram (mg/kg).
2. NA = Not analyzed for this constituent.
3. NC = No toxicity criteria for this exposure route.
4. NE = No established IEPA SRO for this analyte.
5. Samples were analyzed by EPA Method SW-5035/8260B.
6. G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
7. **Bold values** = Concentration exceeds soil ing. and/or inh. exposure route for residential Tier 1 SROs.
8. **○** = Concentration exceeds soil ing. and/or inh. exposure route for construction worker Tier 1 SROs.
9. **■** = Concentration exceeds soil component of the groundwater ing. exposure route for Class I and/or Class II Tier 1 SROs.
10. \* = The ADL is less than or equal to the specified remediation objective.
11. SS = Site-specific based upon wet weight of soil.

Table II

## Soil Analytical Results - VOCs

Analyte	IEPA SROs						C <sub>SAT</sub> Outdoor Inhalation	C <sub>SAT</sub> SC of GW Ing	Sample Date Depth (ft)	B-115B (1-3)	B-115B (3-5)	B-116B (1-3)	B-116B (3-5)	B-117B (1-3)	B-117B (3-5)
	Residential		Construction Worker		G.W. Ing.	ADL				11/13/18	11/13/18	11/12/18	11/12/18	11/13/18	11/13/18
	Ingestion	Inhalation	Ingestion	Inhalation	Class II		1-3	3-5	1-3	3-5	1-3	3-5			
Acetone	70,000	100,000	NC	100,000	25	*	100,000	200,000	< 0.098	< 0.086	0.14	< 0.092	NA	NA	
Benzene	12	0.8	2,300	2.2	0.17	*	800	580	< 0.0064	< 0.0058	< 0.0065	< 0.0061	NA	NA	
Bromodichloromethane	10	3,000	2,000	3,000	0.6	*	2,800	2,000	< 0.0064	< 0.0058	< 0.0065	< 0.0061	NA	NA	
Bromoform	81	53	16,000	140	0.8	*	2,000	1,200	< 0.0064	< 0.0058	< 0.0065	< 0.0061	NA	NA	
Bromomethane	110	10	1,000	3.9	1.2	*	3,100	3,600	< 0.013	< 0.012	< 0.013	< 0.012	NA	NA	
2-Butanone (MEK)	47,000	25,000	120,000	730	17	NE	25,000	45,000	< 0.098	< 0.086	< 0.097	< 0.092	NA	NA	
Carbon Disulfide	7,800	720	20,000	9.0	160	*	850	520	< 0.064	< 0.058	< 0.065	< 0.061	NA	NA	
Carbon Tetrachloride	5.0	0.3	410	0.9	0.33	*	1,200	560	< 0.0064	< 0.0058	< 0.0065	< 0.0061	NA	NA	
Chlorobenzene	1,600	130	4,100	1.3	6.5	*	620	290	< 0.0064	< 0.0058	< 0.0065	< 0.0061	NA	NA	
Chloroethane	NC	1,500	NC	97	NC	NE	NE	NE	< 0.013	< 0.012	< 0.013	< 0.012	NA	NA	
Chloroform	100	0.3	2,000	0.76	2.9	*	3,400	2,500	< 0.0064	< 0.0058	< 0.0065	< 0.0061	NA	NA	
Chloromethane	NC	110	NC	11	NC	NE	NE	NE	< 0.013	< 0.012	< 0.013	< 0.012	NA	NA	
Dibromochloromethane	1,600	1,300	41,000	1,300	0.4	*	1,400	890	< 0.0064	< 0.0058	< 0.0065	< 0.0061	NA	NA	
1,1-Dichloroethane	7,800	1,300	200,000	130	110	*	1,700	1,400	< 0.0064	< 0.0058	< 0.0065	< 0.0061	NA	NA	
1,2-Dichloroethane	7.0	0.4	1,400	0.99	0.1	*	1,900	2,100	< 0.0064	< 0.0058	< 0.0065	< 0.0061	NA	NA	
1,1-Dichloroethene	3,900	290	10,000	3.0	0.3	*	1,400	910	< 0.0064	< 0.0058	< 0.0065	< 0.0061	NA	NA	
cis-1,2-Dichloroethene	780	1,200	20,000	1,200	1.1	*	1,300	1,000	< 0.0064	< 0.0058	< 0.0065	< 0.0061	NA	NA	
trans-1,2-Dichloroethene	1,600	3,100	41,000	3,100	3.4	*	3,000	2,100	< 0.0064	< 0.0058	< 0.0065	< 0.0061	NA	NA	
1,2-Dichloropropane	9.0	15	1,800	0.5	0.15	*	1,200	870	< 0.0064	< 0.0058	< 0.0065	< 0.0061	NA	NA	
cis-1,3-Dichloropropene	6.4	1.1	1,200	0.39	0.02	0.005	1,000	850	< 0.0026	< 0.0023	< 0.0026	< 0.0024	NA	NA	
trans-1,3-Dichloropropene	6.4	1.1	1,200	0.39	0.02	0.005	1,000	850	< 0.0026	< 0.0023	< 0.0026	< 0.0024	NA	NA	
Ethylbenzene	7,800	400	20,000	58	19	*	350	150	< 0.0064	< 0.0058	< 0.0065	< 0.0061	NA	NA	
2-Hexanone	NE	NE	NE	NE	NE	NE	NE	NE	< 0.026	< 0.023	< 0.026	< 0.024	NA	NA	
4-Methyl-2-Pentanone (MIBK)	NE	3,100	NE	340	NE	NE	NE	NE	< 0.026	< 0.023	< 0.026	< 0.024	NA	NA	
Methylene Chloride	85	13	12,000	34	0.2	*	2,500	3,000	< 0.013	< 0.012	< 0.013	< 0.012	NA	NA	
Methyl-tertiary-butyl ether (MTBE)	780	8,800	2,000	140	0.32	*	8,400	1,100	< 0.0064	< 0.0058	< 0.0065	< 0.0061	NA	NA	
Styrene	16,000	1,500	41,000	430	18	*	630	260	< 0.0064	< 0.0058	< 0.0065	< 0.0061	NA	NA	
1,1,1,2-Tetrachloroethane	310	2,000	2,000	2,000	0.22	*	NE	NE	< 0.0064	< 0.0058	< 0.0065	< 0.0061	NA	NA	
Tetrachloroethene	12	11	2,400	28	0.3	*	800	310	< 0.0064	< 0.0058	< 0.0065	< 0.0061	NA	NA	
Toluene	16,000	650	410,000	42	29	*	580	290	< 0.0064	< 0.0058	< 0.0065	< 0.0061	NA	NA	
1,1,1-Trichloroethane	NC	1,200	NC	1,200	9.6	*	1,300	670	< 0.0064	< 0.0058	< 0.0065	< 0.0061	NA	NA	
1,1,2-Trichloroethane	310	1,800	8,200	1,800	0.3	*	1,800	890	< 0.0064	< 0.0058	< 0.0065	< 0.0061	NA	NA	
Trichloroethene	58	5.0	1,200	12	0.3	*	1,200	650	< 0.0064	< 0.0058	< 0.0065	< 0.0061	NA	NA	
Vinyl Acetate	78,000	1,000	200,000	10	170	*	2,600	4,200	NA	NA	NA	NA	NA	NA	
Vinyl Chloride	0.46	0.28	170	1.1	0.07	*	2,600	2,900	< 0.0064	< 0.0058	< 0.0065	< 0.0061	NA	NA	
Xylenes, Total	16,000	320	41,000	5.6	150	*	280	110	< 0.019	< 0.017	< 0.020	< 0.018	NA	NA	

## NOTES:

- All results expressed in milligrams per kilogram (mg/kg).
- NA = Not analyzed for this constituent.
- NC = No toxicity criteria for this exposure route.
- NE = No established IEPA SRO for this analyte.
- Samples were analyzed by EPA Method SW-5035/8260B.
- G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
- Bold values** = Concentration exceeds soil ing. and/or inh. exposure route for residential Tier 1 SROs.
- = Concentration exceeds soil ing. and/or inh. exposure route for construction worker Tier 1 SROs.
- = Concentration exceeds soil component of the groundwater ing. exposure route for Class I and/or Class II Tier 1 SROs.
- \* = The ADL is less than or equal to the specified remediation objective.
- SS = Site-specific based upon wet weight of soil.

Table II

Soil Analytical Results - VOCs

Analyte	IEPA SROs						C <sub>SAT</sub> Outdoor Inhalation	C <sub>SAT</sub> SC of GW Ing	Sample Date Depth (ft)	B-118B (1-3)	B-118B (3-5)	B-205B (1-3)	B-206B (1-3)	B-206B (3-5)	B-207B (1-3)
	Residential		Construction Worker		G.W. Ing.	ADL				11/13/18	11/13/18	11/29/18	11/29/18	11/29/18	11/29/18
	Ingestion	Inhalation	Ingestion	Inhalation	Class II		1-3	3-5	1-3	1-3	3-5	1-3			
Acetone	70,000	100,000	NC	100,000	25	*	100,000	200,000	< 0.075	0.13	NA	NA	NA	NA	
Benzene	12	0.8	2,300	2.2	0.17	*	800	580	< 0.0050	< 0.0081	NA	NA	NA	NA	
Bromodichloromethane	10	3,000	2,000	3,000	0.6	*	2,800	2,000	< 0.0050	< 0.0081	NA	NA	NA	NA	
Bromoform	81	53	16,000	140	0.8	*	2,000	1,200	< 0.0050	< 0.0081	NA	NA	NA	NA	
Bromomethane	110	10	1,000	3.9	1.2	*	3,100	3,600	< 0.010	< 0.016	NA	NA	NA	NA	
2-Butanone (MEK)	47,000	25,000	120,000	730	17	NE	25,000	45,000	< 0.075	< 0.12	NA	NA	NA	NA	
Carbon Disulfide	7,800	720	20,000	9.0	160	*	850	520	< 0.050	< 0.081	NA	NA	NA	NA	
Carbon Tetrachloride	5.0	0.3	410	0.9	0.33	*	1,200	560	< 0.0050	< 0.0081	NA	NA	NA	NA	
Chlorobenzene	1,600	130	4,100	1.3	6.5	*	620	290	< 0.0050	< 0.0081	NA	NA	NA	NA	
Chloroethane	NC	1,500	NC	97	NC	NE	NE	NE	< 0.010	< 0.016	NA	NA	NA	NA	
Chloroform	100	0.3	2,000	0.76	2.9	*	3,400	2,500	< 0.0050	< 0.0081	NA	NA	NA	NA	
Chloromethane	NC	110	NC	11	NC	NE	NE	NE	< 0.010	< 0.016	NA	NA	NA	NA	
Dibromochloromethane	1,600	1,300	41,000	1,300	0.4	*	1,400	890	< 0.0050	< 0.0081	NA	NA	NA	NA	
1,1-Dichloroethane	7,800	1,300	200,000	130	110	*	1,700	1,400	< 0.0050	< 0.0081	NA	NA	NA	NA	
1,2-Dichloroethane	7.0	0.4	1,400	0.99	0.1	*	1,900	2,100	< 0.0050	< 0.0081	NA	NA	NA	NA	
1,1-Dichloroethene	3,900	290	10,000	3.0	0.3	*	1,400	910	< 0.0050	< 0.0081	NA	NA	NA	NA	
cis-1,2-Dichloroethene	780	1,200	20,000	1,200	1.1	*	1,300	1,000	< 0.0050	< 0.0081	NA	NA	NA	NA	
trans-1,2-Dichloroethene	1,600	3,100	41,000	3,100	3.4	*	3,000	2,100	< 0.0050	< 0.0081	NA	NA	NA	NA	
1,2-Dichloropropane	9.0	15	1,800	0.5	0.15	*	1,200	870	< 0.0050	< 0.0081	NA	NA	NA	NA	
cis-1,3-Dichloropropene	6.4	1.1	1,200	0.39	0.02	0.005	1,000	850	< 0.0020	< 0.0031	NA	NA	NA	NA	
trans-1,3-Dichloropropene	6.4	1.1	1,200	0.39	0.02	0.005	1,000	850	< 0.0020	< 0.0031	NA	NA	NA	NA	
Ethylbenzene	7,800	400	20,000	58	19	*	350	150	< 0.0050	< 0.0081	NA	NA	NA	NA	
2-Hexanone	NE	NE	NE	NE	NE	NE	NE	NE	< 0.020	< 0.031	NA	NA	NA	NA	
4-Methyl-2-Pentanone (MIBK)	NE	3,100	NE	340	NE	NE	NE	NE	< 0.020	< 0.031	NA	NA	NA	NA	
Methylene Chloride	85	13	12,000	34	0.2	*	2,500	3,000	< 0.010	< 0.016	NA	NA	NA	NA	
Methyl-tertiary-butyl ether (MTBE)	780	8,800	2,000	140	0.32	*	8,400	1,100	< 0.0050	< 0.0081	NA	NA	NA	NA	
Styrene	16,000	1,500	41,000	430	18	*	630	260	< 0.0050	< 0.0081	NA	NA	NA	NA	
1,1,1,2-Tetrachloroethane	310	2,000	2,000	2,000	0.22	*	NE	NE	< 0.0050	< 0.0081	NA	NA	NA	NA	
Tetrachloroethene	12	11	2,400	28	0.3	*	800	310	< 0.0050	< 0.0081	NA	NA	NA	NA	
Toluene	16,000	650	410,000	42	29	*	580	290	< 0.0050	< 0.0081	NA	NA	NA	NA	
1,1,1-Trichloroethane	NC	1,200	NC	1,200	9.6	*	1,300	670	< 0.0050	< 0.0081	NA	NA	NA	NA	
1,1,2-Trichloroethane	310	1,800	8,200	1,800	0.3	*	1,800	890	< 0.0050	< 0.0081	NA	NA	NA	NA	
Trichloroethene	58	5.0	1,200	12	0.3	*	1,200	650	< 0.0050	< 0.0081	NA	NA	NA	NA	
Vinyl Acetate	78,000	1,000	200,000	10	170	*	2,600	4,200	NA	NA	NA	NA	NA	NA	
Vinyl Chloride	0.46	0.28	170	1.1	0.07	*	2,600	2,900	< 0.0050	< 0.0081	NA	NA	NA	NA	
Xylenes, Total	16,000	320	41,000	5.6	150	*	280	110	< 0.015	< 0.024	NA	NA	NA	NA	

NOTES:

1. All results expressed in milligrams per kilogram (mg/kg).
2. NA = Not analyzed for this constituent.
3. NC = No toxicity criteria for this exposure route.
4. NE = No established IEPA SRO for this analyte.
5. Samples were analyzed by EPA Method SW-5035/8260B.
6. G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
7. **Bold values** = Concentration exceeds soil ing. and/or inh. exposure route for residential Tier 1 SROs.
8. **○** = Concentration exceeds soil ing. and/or inh. exposure route for construction worker Tier 1 SROs.
9. **■** = Concentration exceeds soil component of the groundwater ing. exposure route for Class I and/or Class II Tier 1 SROs.
10. \* = The ADL is less than or equal to the specified remediation objective.
11. SS = Site-specific based upon wet weight of soil.

Table II

Soil Analytical Results - VOCs

Analyte	IEPA SROs						C <sub>SAT</sub> Outdoor Inhalation	C <sub>SAT</sub> SC of GW Ing	Sample Date Depth (ft)	B-207B (3-5)	B-208B (1-3)	B-208B (3-5)	B-209B (1-3)	B-209B (3-5)	B-210B (1-3)
	Residential		Construction Worker		G.W. Ing.	ADL				11/29/18	11/29/18	11/29/18	11/29/18	11/29/18	11/29/18
	Ingestion	Inhalation	Ingestion	Inhalation	Class II					3-5	1-3	3-5	1-3	3-5	1-3
Acetone	70,000	100,000	NC	100,000	25	*	100,000	200,000	NA	NA	NA	NA	NA	NA	NA
Benzene	12	0.8	2,300	2.2	0.17	*	800	580	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	10	3,000	2,000	3,000	0.6	*	2,800	2,000	NA	NA	NA	NA	NA	NA	NA
Bromoform	81	53	16,000	140	0.8	*	2,000	1,200	NA	NA	NA	NA	NA	NA	NA
Bromomethane	110	10	1,000	3.9	1.2	*	3,100	3,600	NA	NA	NA	NA	NA	NA	NA
2-Butanone (MEK)	47,000	25,000	120,000	730	17	NE	25,000	45,000	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	7,800	720	20,000	9.0	160	*	850	520	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	5.0	0.3	410	0.9	0.33	*	1,200	560	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	1,600	130	4,100	1.3	6.5	*	620	290	NA	NA	NA	NA	NA	NA	NA
Chloroethane	NC	1,500	NC	97	NC	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloroform	100	0.3	2,000	0.76	2.9	*	3,400	2,500	NA	NA	NA	NA	NA	NA	NA
Chloromethane	NC	110	NC	11	NC	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	1,600	1,300	41,000	1,300	0.4	*	1,400	890	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	7,800	1,300	200,000	130	110	*	1,700	1,400	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	7.0	0.4	1,400	0.99	0.1	*	1,900	2,100	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	3,900	290	10,000	3.0	0.3	*	1,400	910	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	780	1,200	20,000	1,200	1.1	*	1,300	1,000	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	1,600	3,100	41,000	3,100	3.4	*	3,000	2,100	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	9.0	15	1,800	0.5	0.15	*	1,200	870	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	6.4	1.1	1,200	0.39	0.02	0.005	1,000	850	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	6.4	1.1	1,200	0.39	0.02	0.005	1,000	850	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	7,800	400	20,000	58	19	*	350	150	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NE	NE	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	NE	3,100	NE	340	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	85	13	12,000	34	0.2	*	2,500	3,000	NA	NA	NA	NA	NA	NA	NA
Methyl-tertiary-butyl ether (MTBE)	780	8,800	2,000	140	0.32	*	8,400	1,100	NA	NA	NA	NA	NA	NA	NA
Styrene	16,000	1,500	41,000	430	18	*	630	260	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	310	2,000	2,000	2,000	0.22	*	NE	NE	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	12	11	2,400	28	0.3	*	800	310	NA	NA	NA	NA	NA	NA	NA
Toluene	16,000	650	410,000	42	29	*	580	290	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	NC	1,200	NC	1,200	9.6	*	1,300	670	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	310	1,800	8,200	1,800	0.3	*	1,800	890	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	58	5.0	1,200	12	0.3	*	1,200	650	NA	NA	NA	NA	NA	NA	NA
Vinyl Acetate	78,000	1,000	200,000	10	170	*	2,600	4,200	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	0.46	0.28	170	1.1	0.07	*	2,600	2,900	NA	NA	NA	NA	NA	NA	NA
Xylenes, Total	16,000	320	41,000	5.6	150	*	280	110	NA	NA	NA	NA	NA	NA	NA

NOTES:

1. All results expressed in milligrams per kilogram (mg/kg).
2. NA = Not analyzed for this constituent.
3. NC = No toxicity criteria for this exposure route.
4. NE = No established IEPA SRO for this analyte.
5. Samples were analyzed by EPA Method SW-5035/8260B.
6. G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
7. **Bold values** = Concentration exceeds soil ing. and/or inh. exposure route for residential Tier 1 SROs.
8. **○** = Concentration exceeds soil ing. and/or inh. exposure route for construction worker Tier 1 SROs.
9. **■** = Concentration exceeds soil component of the groundwater ing. exposure route for Class I and/or Class II Tier 1 SROs.
10. \* = The ADL is less than or equal to the specified remediation objective.
11. SS = Site-specific based upon wet weight of soil.

Table II

## Soil Analytical Results - VOCs

Analyte	IEPA SROs						C <sub>SAT</sub> Outdoor Inhalation	C <sub>SAT</sub> SC of GW Ing	Sample Date Depth (ft)	B-211B (1-3)	B-211B (3-5)	B-212B (1-3)	B-213B (1-3)	B-214B (1-3)	B-214 (3-5)
	Residential		Construction Worker		G.W. Ing.	ADL				11/29/18	11/29/18	11/29/18	11/29/18	11/29/18	11/29/18
	Ingestion	Inhalation	Ingestion	Inhalation	Class II					1-3	3-5	1-3	1-3	1-3	3-5
Acetone	70,000	100,000	NC	100,000	25	*	100,000	200,000	NA	NA	NA	NA	NA	NA	NA
Benzene	12	0.8	2,300	2.2	0.17	*	800	580	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	10	3,000	2,000	3,000	0.6	*	2,800	2,000	NA	NA	NA	NA	NA	NA	NA
Bromoform	81	53	16,000	140	0.8	*	2,000	1,200	NA	NA	NA	NA	NA	NA	NA
Bromomethane	110	10	1,000	3.9	1.2	*	3,100	3,600	NA	NA	NA	NA	NA	NA	NA
2-Butanone (MEK)	47,000	25,000	120,000	730	17	NE	25,000	45,000	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	7,800	720	20,000	9.0	160	*	850	520	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	5.0	0.3	410	0.9	0.33	*	1,200	560	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	1,600	130	4,100	1.3	6.5	*	620	290	NA	NA	NA	NA	NA	NA	NA
Chloroethane	NC	1,500	NC	97	NC	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
Chloroform	100	0.3	2,000	0.76	2.9	*	3,400	2,500	NA	NA	NA	NA	NA	NA	NA
Chloromethane	NC	110	NC	11	NC	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	1,600	1,300	41,000	1,300	0.4	*	1,400	890	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	7,800	1,300	200,000	130	110	*	1,700	1,400	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	7.0	0.4	1,400	0.99	0.1	*	1,900	2,100	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	3,900	290	10,000	3.0	0.3	*	1,400	910	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	780	1,200	20,000	1,200	1.1	*	1,300	1,000	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	1,600	3,100	41,000	3,100	3.4	*	3,000	2,100	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	9.0	15	1,800	0.5	0.15	*	1,200	870	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	6.4	1.1	1,200	0.39	0.02	0.005	1,000	850	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	6.4	1.1	1,200	0.39	0.02	0.005	1,000	850	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	7,800	400	20,000	58	19	*	350	150	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NE	NE	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	NE	3,100	NE	340	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	85	13	12,000	34	0.2	*	2,500	3,000	NA	NA	NA	NA	NA	NA	NA
Methyl-tertiary-butyl ether (MTBE)	780	8,800	2,000	140	0.32	*	8,400	1,100	NA	NA	NA	NA	NA	NA	NA
Styrene	16,000	1,500	41,000	430	18	*	630	260	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	310	2,000	2,000	2,000	0.22	*	NE	NE	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	12	11	2,400	28	0.3	*	800	310	NA	NA	NA	NA	NA	NA	NA
Toluene	16,000	650	410,000	42	29	*	580	290	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	NC	1,200	NC	1,200	9.6	*	1,300	670	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	310	1,800	8,200	1,800	0.3	*	1,800	890	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	58	5.0	1,200	12	0.3	*	1,200	650	NA	NA	NA	NA	NA	NA	NA
Vinyl Acetate	78,000	1,000	200,000	10	170	*	2,600	4,200	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	0.46	0.28	170	1.1	0.07	*	2,600	2,900	NA	NA	NA	NA	NA	NA	NA
Xylenes, Total	16,000	320	41,000	5.6	150	*	280	110	NA	NA	NA	NA	NA	NA	NA

## NOTES:

- All results expressed in milligrams per kilogram (mg/kg).
- NA = Not analyzed for this constituent.
- NC = No toxicity criteria for this exposure route.
- NE = No established IEPA SRO for this analyte.
- Samples were analyzed by EPA Method SW-5035/8260B.
- G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
- Bold values** = Concentration exceeds soil ing. and/or inh. exposure route for residential Tier 1 SROs.
- = Concentration exceeds soil ing. and/or inh. exposure route for construction worker Tier 1 SROs.
- = Concentration exceeds soil component of the groundwater ing. exposure route for Class I and/or Class II Tier 1 SROs.
- \* = The ADL is less than or equal to the specified remediation objective.
- SS = Site-specific based upon wet weight of soil.



Table II

## Soil Analytical Results - VOCs

Analyte	IEPA SROs						C <sub>SAT</sub> Outdoor Inhalation	C <sub>SAT</sub> SC of GW Ing	Sample Date Depth (ft)	SB-1 03/09/99 1-3	SB-3 03/09/99 1.5-4	SB-4 03/09/99 1-3	SB-5 03/09/99 3-5	SB-6 03/09/99 1-3	SB-8 03/09/99 5-7
	Residential		Construction Worker		G.W. Ing.	ADL									
	Ingestion	Inhalation	Ingestion	Inhalation	Class II										
Acetone	70,000	100,000	NC	100,000	25	*	100,000	200,000	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Benzene	12	0.8	2,300	2.2	0.17	*	800	580	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
Bromodichloromethane	10	3,000	2,000	3,000	0.6	*	2,800	2,000	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
Bromoform	81	53	16,000	140	0.8	*	2,000	1,200	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
Bromomethane	110	10	1,000	3.9	1.2	*	3,100	3,600	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
2-Butanone (MEK)	47,000	25,000	120,000	730	17	NE	25,000	45,000	0.24	0.046	0.14	0.035	<0.010	<0.010	<0.010
Carbon Disulfide	7,800	720	20,000	9.0	160	*	850	520	0.02	<0.0030	0.0064	<0.0030	<0.0030	<0.0030	<0.0030
Carbon Tetrachloride	5.0	0.3	410	0.9	0.33	*	1,200	560	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
Chlorobenzene	1,600	130	4,100	1.3	6.5	*	620	290	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
Chloroethane	NC	1,500	NC	97	NC	NE	NE	NE	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
Chloroform	100	0.3	2,000	0.76	2.9	*	3,400	2,500	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
Chloromethane	NC	110	NC	11	NC	NE	NE	NE	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Dibromochloromethane	1,600	1,300	41,000	1,300	0.4	*	1,400	890	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
1,1-Dichloroethane	7,800	1,300	200,000	130	110	*	1,700	1,400	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
1,2-Dichloroethane	7.0	0.4	1,400	0.99	0.1	*	1,900	2,100	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
1,1-Dichloroethene	3,900	290	10,000	3.0	0.3	*	1,400	910	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
cis-1,2-Dichloroethene	780	1,200	20,000	1,200	1.1	*	1,300	1,000	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
trans-1,2-Dichloroethene	1,600	3,100	41,000	3,100	3.4	*	3,000	2,100	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
1,2-Dichloropropane	9.0	15	1,800	0.5	0.15	*	1,200	870	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
cis-1,3-Dichloropropene	6.4	1.1	1,200	0.39	0.02	0.005	1,000	850	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
trans-1,3-Dichloropropene	6.4	1.1	1,200	0.39	0.02	0.005	1,000	850	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	7,800	400	20,000	58	19	*	350	150	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
2-Hexanone	NE	NE	NE	NE	NE	NE	NE	NE	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
4-Methyl-2-Pentanone (MIBK)	NE	3,100	NE	340	NE	NE	NE	NE	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Methylene Chloride	85	13	12,000	34	0.2	*	2,500	3,000	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Methyl-tertiary-butyl ether (MTBE)	780	8,800	2,000	140	0.32	*	8,400	1,100	NA	NA	NA	NA	NA	NA	NA
Styrene	16,000	1,500	41,000	430	18	*	630	260	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
1,1,1,2-Tetrachloroethane	310	2,000	2,000	2,000	0.22	*	NE	NE	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
Tetrachloroethene	12	11	2,400	28	0.3	*	800	310	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
Toluene	16,000	650	410,000	42	29	*	580	290	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
1,1,1-Trichloroethane	NC	1,200	NC	1,200	9.6	*	1,300	670	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
1,1,2-Trichloroethane	310	1,800	8,200	1,800	0.3	*	1,800	890	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
Trichloroethene	58	5.0	1,200	12	0.3	*	1,200	650	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
Vinyl Acetate	78,000	1,000	200,000	10	170	*	2,600	4,200	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Vinyl Chloride	0.46	0.28	170	1.1	0.07	*	2,600	2,900	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Xylenes, Total	16,000	320	41,000	5.6	150	*	280	110	<0.0025	0.014	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025

## NOTES:

- All results expressed in milligrams per kilogram (mg/kg).
- NA = Not analyzed for this constituent.
- NC = No toxicity criteria for this exposure route.
- NE = No established IEPA SRO for this analyte.
- Samples were analyzed by EPA Method SW-5035/8260B.
- G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
- Bold values** = Concentration exceeds soil ing. and/or inh. exposure route for residential Tier 1 SROs.
- = Concentration exceeds soil ing. and/or inh. exposure route for construction worker Tier 1 SROs.
- = Concentration exceeds soil component of the groundwater ing. exposure route for Class I and/or Class II Tier 1 SROs.
- \* = The ADL is less than or equal to the specified remediation objective.
- SS = Site-specific based upon wet weight of soil.

Table II

## Soil Analytical Results - VOCs

Analyte	IEPA SROs						C <sub>SAT</sub> Outdoor Inhalation	C <sub>SAT</sub> SC of GW Ing	Sample Date Depth (ft)	SB-9 03/09/99 1-3	SB-10 03/09/99 5-7	SB-11 03/09/99 5-7	SB-12 03/09/99 3-5
	Residential		Construction Worker		G.W. Ing.	ADL							
	Ingestion	Inhalation	Ingestion	Inhalation	Class II								
Acetone	70,000	100,000	NC	100,000	25	*	100,000	200,000	<0.010	<0.010	<0.010	<0.010	
Benzene	12	0.8	2,300	2.2	0.17	*	800	580	<0.0015	<0.0015	<0.0015	<0.0015	
Bromodichloromethane	10	3,000	2,000	3,000	0.6	*	2,800	2,000	<0.0015	<0.0015	<0.0015	<0.0015	
Bromoform	81	53	16,000	140	0.8	*	2,000	1,200	<0.0015	<0.0015	<0.0015	<0.0015	
Bromomethane	110	10	1,000	3.9	1.2	*	3,100	3,600	<0.010	<0.010	<0.010	<0.010	
2-Butanone (MEK)	47,000	25,000	120,000	730	17	NE	25,000	45,000	<0.010	<0.010	<0.010	<0.010	
Carbon Disulfide	7,800	720	20,000	9.0	160	*	850	520	<0.0030	<0.0030	<0.0030	<0.0030	
Carbon Tetrachloride	5.0	0.3	410	0.9	0.33	*	1,200	560	<0.0015	<0.0015	<0.0015	<0.0015	
Chlorobenzene	1,600	130	4,100	1.3	6.5	*	620	290	<0.0015	<0.0015	<0.0015	<0.0015	
Chloroethane	NC	1,500	NC	97	NC	NE	NE	NE	<0.0015	<0.0015	<0.0015	<0.0015	
Chloroform	100	0.3	2,000	0.76	2.9	*	3,400	2,500	<0.0015	<0.0015	<0.0015	<0.0015	
Chloromethane	NC	110	NC	11	NC	NE	NE	NE	<0.010	<0.010	<0.010	<0.010	
Dibromochloromethane	1,600	1,300	41,000	1,300	0.4	*	1,400	890	<0.0015	<0.0015	<0.0015	<0.0015	
1,1-Dichloroethane	7,800	1,300	200,000	130	110	*	1,700	1,400	<0.0015	<0.0015	<0.0015	<0.0015	
1,2-Dichloroethane	7.0	0.4	1,400	0.99	0.1	*	1,900	2,100	<0.0015	<0.0015	<0.0015	<0.0015	
1,1-Dichloroethene	3,900	290	10,000	3.0	0.3	*	1,400	910	<0.0015	<0.0015	<0.0015	<0.0015	
cis-1,2-Dichloroethene	780	1,200	20,000	1,200	1.1	*	1,300	1,000	<0.0015	<0.0015	<0.0015	<0.0015	
trans-1,2-Dichloroethene	1,600	3,100	41,000	3,100	3.4	*	3,000	2,100	<0.0015	<0.0015	<0.0015	<0.0015	
1,2-Dichloropropane	9.0	15	1,800	0.5	0.15	*	1,200	870	<0.0015	<0.0015	<0.0015	<0.0015	
cis-1,3-Dichloropropene	6.4	1.1	1,200	0.39	0.02	0.005	1,000	850	<0.002	<0.002	<0.002	<0.002	
trans-1,3-Dichloropropene	6.4	1.1	1,200	0.39	0.02	0.005	1,000	850	<0.002	<0.002	<0.002	<0.002	
Ethylbenzene	7,800	400	20,000	58	19	*	350	150	<0.0015	<0.0015	<0.0015	<0.0015	
2-Hexanone	NE	NE	NE	NE	NE	NE	NE	NE	<0.010	<0.010	<0.010	<0.010	
4-Methyl-2-Pentanone (MIBK)	NE	3,100	NE	340	NE	NE	NE	NE	<0.010	<0.010	<0.010	<0.010	
Methylene Chloride	85	13	12,000	34	0.2	*	2,500	3,000	<0.005	<0.005	<0.005	<0.005	
Methyl-tertiary-butyl ether (MTBE)	780	8,800	2,000	140	0.32	*	8,400	1,100	NA	NA	NA	NA	
Styrene	16,000	1,500	41,000	430	18	*	630	260	<0.010	<0.010	<0.010	<0.010	
1,1,2,2-Tetrachloroethane	310	2,000	2,000	2,000	0.22	*	NE	NE	<0.0015	<0.0015	<0.0015	<0.0015	
Tetrachloroethene	12	11	2,400	28	0.3	*	800	310	<0.0015	<0.0015	<0.0015	<0.0015	
Toluene	16,000	650	410,000	42	29	*	580	290	<0.0015	<0.0015	<0.0015	<0.0015	
1,1,1-Trichloroethane	NC	1,200	NC	1,200	9.6	*	1,300	670	<0.0015	<0.0015	<0.0015	<0.0015	
1,1,2-Trichloroethane	310	1,800	8,200	1,800	0.3	*	1,800	890	<0.0015	<0.0015	<0.0015	<0.0015	
Trichloroethene	58	5.0	1,200	12	0.3	*	1,200	650	<0.0015	<0.0015	<0.0015	<0.0015	
Vinyl Acetate	78,000	1,000	200,000	10	170	*	2,600	4,200	<0.015	<0.015	<0.015	<0.015	
Vinyl Chloride	0.46	0.28	170	1.1	0.07	*	2,600	2,900	<0.002	<0.002	<0.002	<0.002	
Xylenes, Total	16,000	320	41,000	5.6	150	*	280	110	<0.0025	<0.0025	<0.0025	<0.0025	

## NOTES:

- All results expressed in milligrams per kilogram (mg/kg).
- NA = Not analyzed for this constituent.
- NC = No toxicity criteria for this exposure route.
- NE = No established IEPA SRO for this analyte.
- Samples were analyzed by EPA Method SW-5035/8260B.
- G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
- Bold values** = Concentration exceeds soil ing. and/or inh. exposure route for residential Tier 1 SROs.
- = Concentration exceeds soil ing. and/or inh. exposure route for construction worker Tier 1 SROs.
- = Concentration exceeds soil component of the groundwater ing. exposure route for Class I and/or Class II Tier 1 SROs.
- \* = The ADL is less than or equal to the specified remediation objective.
- SS = Site-specific based upon wet weight of soil.

Table III

Soil Analytical Results - SVOCs

Analyte	IEPA SROs						C <sub>SAT</sub> Outdoor Inhalation	C <sub>SAT</sub> SC of GW Ing	Sample Date Depth (ft)	B-104B (1-3)	B-105B (1-3)	B-105B (3-5)	B-106B (1-3)	B-107B (1-3)	B-109B (1-3)
	Residential		Construction Worker		G.W. Ing. Class II	ADL				11/12/18	11/12/18	11/12/18	10/16/18	10/16/18	11/12/18
	Ingestion	Inhalation	Ingestion	Inhalation						1-3	1-3	3-5	1-3	1-3	1-3
Aniline	110	83	1400	8.6	0.063	SS	NE	NE	< 0.42	< 0.39	< 0.39	< 0.41	< 0.45	< 0.41	
Benzidine	0.003	0.009	0.54	0.02	0.000002	NE	NE	NE	< 0.42	< 0.39	< 0.39	< 0.40	< 0.44	< 0.41	
Benzoic Acid	310,000	NC	820,000	NC	400	*	NE	NE	< 1.0	< 0.98	< 0.98	< 1.0	< 1.1	< 1.0	
Benzyl Alcohol	39,000	6,100	200,000	6,100	15	SS	NE	NE	< 0.22	< 0.20	< 0.20	< 0.21	< 0.23	< 0.21	
Bis(2-chloroethoxy)methane	NE	NE	NE	NE	NE	NE	NE	NE	< 0.22	< 0.20	< 0.20	< 0.21	< 0.23	< 0.21	
Bis(2-chloroethyl)ether	0.6	0.2	75	0.66	0.0004	0.66	3,000	3,900	< 0.22	< 0.20	< 0.20	< 0.21	< 0.23	< 0.21	
Bis(2-ethylhexyl)phthalate	46	31,000	4,100	31,000	31,000	*	200	68	< 1.0	< 0.98	< 0.98	< 1.0	< 1.1	< 1.0	
4-Bromophenyl Phenyl Ether	NE	NE	NE	NE	NE	NE	NE	NE	< 0.22	< 0.20	< 0.20	< 0.21	< 0.23	< 0.21	
Butyl Benzyl Phthalate	16,000	930	410,000	930	930	*	1,000	340	< 0.22	< 0.20	< 0.20	< 0.21	< 0.23	< 0.21	
Carbazole	32	NE	6,200	NE	2.8	NE	NE	NE	< 0.22	< 0.20	< 0.20	1.6	< 0.23	< 0.21	
4-Chloroaniline	310	NC	820	NC	0.7	*	NE	NE	< 0.22	< 0.20	< 0.20	< 0.21	< 0.23	< 0.21	
4-Chloro-3-Methylphenol	NE	NE	NE	NE	NE	NE	NE	NE	< 0.42	< 0.39	< 0.39	< 0.40	< 0.44	< 0.41	
2-Chloronaphthalene	6,300	NE	160,000	NE	240	SS	NE	NE	< 0.22	< 0.20	< 0.20	< 0.21	< 0.23	< 0.21	
2-Chlorophenol	390	53,000	10,000	53,000	1.5	*	10,000	7,100	< 0.22	< 0.20	< 0.20	< 0.21	< 0.23	< 0.21	
4-Chlorophenyl Phenyl Ether	NE	NE	NE	NE	NE	NE	NE	NE	< 0.22	< 0.20	< 0.20	< 0.21	< 0.23	< 0.21	
Dibenzofuran	NC	NC	820	NC	NC	*	NE	NE	< 0.22	< 0.20	< 0.20	0.29	< 0.23	< 0.21	
1,2-Dichlorobenzene	7,000	560	18,000	310	43	*	560	210	< 0.22	< 0.20	< 0.20	< 0.21	< 0.23	< 0.21	
1,3-Dichlorobenzene	NE	NE	NE	NE	NE	NE	NE	NE	< 0.22	< 0.20	< 0.20	< 0.21	< 0.23	< 0.21	
1,4-Dichlorobenzene	NC	NC	NC	340	11	*	NE	NE	< 0.22	< 0.20	< 0.20	< 0.21	< 0.23	< 0.21	
3,3-Dichlorobenzidine	1.0	NC	280	NC	0.033	1.3	NE	NE	< 0.22	< 0.20	< 0.20	< 0.21	< 0.23	< 0.21	
2,4-Dichlorophenol	230	NC	610	NC	0.48	*	NE	NE	< 0.22	< 0.20	< 0.20	< 0.21	< 0.23	< 0.21	
Diethyl Phthalate	63,000	2,000	1,000,000	2,000	470	*	2,200	920	< 0.22	< 0.20	< 0.20	< 0.21	< 0.23	< 0.21	
2,4-Dimethylphenol	1,600	NC	41,000	NC	9.0	*	10,000	4,700	< 0.22	< 0.20	< 0.20	< 0.21	< 0.23	< 0.21	
Dimethyl Phthalate	NE	NE	NE	NE	NE	NE	NE	NE	< 0.22	< 0.20	< 0.20	< 0.21	< 0.23	< 0.21	
4,6-Dinitro-2-Methylphenol	7.8	NE	820	NE	0.0031	SS	NE	NE	< 0.42	< 0.39	< 0.39	< 0.40	< 0.44	< 0.41	
2,4-Dinitrophenol	160	NC	410	NC	0.2	3.3	NE	NE	< 1.0	< 0.98	< 0.98	< 1.0	< 1.1	< 1.0	
2,4-Dinitrotoluene	0.9	NC	180	NC	0.0008	0.25	NE	NE	< 0.042	< 0.039	< 0.039	< 0.040	< 0.044	< 0.041	
2,6-Dinitrotoluene	0.9	NC	180	NC	0.0007	0.26	NE	NE	< 0.042	< 0.039	< 0.039	< 0.040	< 0.044	< 0.041	
Di-n-Butyl Phthalate	7,800	2,300	200,000	2,300	2,300	*	2,600	880	< 0.22	< 0.20	< 0.20	< 0.21	< 0.23	< 0.21	
Di-n-Octylphthalate	1,600	10,000	4,100	10,000	10,000	*	16	5	< 0.22	< 0.20	< 0.20	< 0.21	< 0.23	< 0.21	
Hexachlorobenzene	0.4	1.0	78	2.6	11	*	NE	NE	< 0.22	< 0.20	< 0.20	< 0.21	< 0.23	< 0.21	

SVOCs

Table III

## Soil Analytical Results - SVOCs

Analyte	IEPA SROs						C <sub>SAT</sub> Outdoor Inhalation	C <sub>SAT</sub> SC of GW Ing	Sample Date	B-104B (1-3) 11/12/18 Depth (ft) 1-3	B-105B (1-3) 11/12/18 1-3	B-105B (3-5) 11/12/18 3-5	B-106B (1-3) 10/16/18 1-3	B-107B (1-3) 10/16/18 1-3	B-109B (1-3) 11/12/18 1-3
	Residential		Construction Worker		G.W. Ing.	ADL									
	Ingestion	Inhalation	Ingestion	Inhalation	Class II										
Hexachlorobutadiene	78	150	200	72	11	NE	NE	NE	< 0.22	< 0.20	< 0.20	< 0.21	< 0.23	< 0.21	
Hexachlorocyclopentadiene	550	10	14,000	1.1	2,200	*	130	44	< 0.22	< 0.20	< 0.20	< 0.21	< 0.23	< 0.21	
Hexachloroethane	78	NC	2,000	NC	2.6	*	NE	NE	< 0.22	< 0.20	< 0.20	< 0.21	< 0.23	< 0.21	
Isophorone	15,600	4,600	410,000	4,600	8.0	*	3,000	3,000	< 0.22	< 0.20	< 0.20	< 0.21	< 0.23	< 0.21	
2-Methylnaphthalene	310	NC	820	NC	10	SS	NE	NE	< 0.22	< 0.20	< 0.20	< 0.21	< 0.23	< 0.21	
2-Methylphenol (o-Cresol)	3,900	NC	100,000	NC	15	*	NE	NE	< 0.22	< 0.20	< 0.20	< 0.21	< 0.23	< 0.21	
4-Methylphenol (m,p-Cresols)	390	NE	1,000	NE	0.2	SS	NE	NE	< 0.22	< 0.20	< 0.20	< 0.21	< 0.23	< 0.21	
2-Nitroaniline	230	35	610	3.6	0.14	SS	NE	NE	< 0.22	< 0.20	< 0.20	< 0.21	< 0.23	< 0.21	
3-Nitroaniline	23	250	61	26	0.01	SS	NE	NE	< 0.22	< 0.20	< 0.20	< 0.21	< 0.23	< 0.21	
4-Nitroaniline	230	1,000	610	110	0.1	SS	NE	NE	< 0.22	< 0.20	< 0.20	< 0.21	< 0.23	< 0.21	
2-Nitrophenol	NE	NE	NE	NE	NE	NE	NE	NE	< 0.22	< 0.20	< 0.20	< 0.21	< 0.23	< 0.21	
4-Nitrophenol	NC	NC	NC	NC	NC	NE	NE	NE	< 0.42	< 0.39	< 0.39	< 0.40	< 0.44	< 0.41	
Nitrobenzene	39	92	1,000	9.4	0.1	0.26	710	590	< 0.042	< 0.039	< 0.039	< 0.040	< 0.044	< 0.041	
n-Nitrosodimethylamine	0.013	0.012	1.6	0.032	0.0000067	NE	NE	NE	< 0.042	< 0.039	< 0.039	< 0.21	< 0.23	< 0.041	
n-Nitroso-di-n-Propylamine	0.09	NC	18	NC	0.00005	0.0018	1,900	2,300	< 0.22	< 0.20	< 0.20	< 0.040	< 0.044	< 0.21	
n-Nitrosodiphenylamine	130	NC	25,000	NC	5.6	*	NE	NE	< 0.22	< 0.039	< 0.039	< 0.040	< 0.044	< 0.21	
2,2'-oxybis(1-Chloropropane) (Bis(2-chloroisopropyl)ether)	3,100	1,300	8,200	1,300	2.4	SS	NE	NE	< 0.22	< 0.20	< 0.20	< 0.21	< 0.23	< 0.21	
Pentachlorophenol	3	NC	520	NC	0.1	*	NE	NE	< 0.084	< 0.039	< 0.039	< 0.040	< 0.044	< 0.082	
Phenol	23,000	NC	61,000	NC	100	*	NE	NE	< 0.22	< 0.20	< 0.20	< 0.21	< 0.23	< 0.21	
Pyridine	78	100,000	2,000	4,800	0.028	NE	NE	NE	< 0.84	< 0.79	< 0.79	< 0.82	< 0.90	< 0.82	
1,2,4-Trichlorobenzene	780	3,200	2,000	920	53	*	340	120	< 0.22	< 0.20	< 0.20	< 0.21	< 0.23	< 0.21	
2,4,5-Trichlorophenol	7,800	NC	200,000	NC	26	*	NE	NE	< 0.22	< 0.20	< 0.20	< 0.21	< 0.23	< 0.21	
2,4,6-Trichlorophenol	58	200	11,000	540	0.07	0.66	NE	NE	< 0.22	< 0.20	< 0.20	< 0.21	< 0.23	< 0.21	

## NOTES:

- All results expressed in milligrams per kilogram (mg/kg).
- NA = Not analyzed for this constituent.
- NC = No toxicity criteria for this exposure route.
- NE = No established IEPA SRO for this analyte.
- Samples were analyzed utilizing EPA Method SW-8270C-SIM(3550B).
- G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
- Bold values** = Concentration exceeds soil ing. and/or inh. exposure route for residential Tier 1 SROs.
- = Concentration exceeds soil ing. and/or inh. exposure route for construction worker Tier 1 SROs.
- = Concentration exceeds soil component of the groundwater ing. exposure route for Class I and/or Class II Tier 1 SROs.
- \* = The ADL is less than or equal to the specified remediation objective.
- SS = Site-specific based upon wet weight of soil.

Table III

Soil Analytical Results - SVOCs

Analyte	IEPA SROs						C <sub>SAT</sub> Outdoor Inhalation	C <sub>SAT</sub> SC of GW Ing	Sample Date Depth (ft)	B-109B (3-5)	B-110B (1-3)	B-110B (3-5)	B-111B (1-3)	B-114B (1-3)	B-114B (3-5)
	Residential		Construction Worker		G.W. Ing. Class II	ADL				11/12/18	11/12/18	11/12/18	10/16/18	11/13/18	11/13/18
	Ingestion	Inhalation	Ingestion	Inhalation						3-5	1-3	3-5	1-3	1-3	3-5
Aniline	110	83	1400	8.6	0.063	SS	NE	NE	< 0.42	< 0.39	< 0.41	< 0.39	< 0.62	< 0.44	
Benzidine	0.003	0.009	0.54	0.02	0.000002	NE	NE	NE	< 0.42	< 0.39	< 0.40	< 0.39	< 0.62	< 0.43	
Benzoic Acid	310,000	NC	820,000	NC	400	*	NE	NE	< 1.1	< 0.98	< 1.0	< 0.98	< 1.6	< 1.1	
Benzyl Alcohol	39,000	6,100	200,000	6,100	15	SS	NE	NE	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	
Bis(2-chloroethoxy)methane	NE	NE	NE	NE	NE	NE	NE	NE	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	
Bis(2-chloroethyl)ether	0.6	0.2	75	0.66	0.0004	0.66	3,000	3,900	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	
Bis(2-ethylhexyl)phthalate	46	31,000	4,100	31,000	31,000	*	200	68	< 1.1	< 0.98	< 1.0	< 0.98	< 1.6	< 1.1	
4-Bromophenyl Phenyl Ether	NE	NE	NE	NE	NE	NE	NE	NE	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	
Butyl Benzyl Phthalate	16,000	930	410,000	930	930	*	1,000	340	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	
Carbazole	32	NE	6,200	NE	2.8	NE	NE	NE	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	
4-Chloroaniline	310	NC	820	NC	0.7	*	NE	NE	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	
4-Chloro-3-Methylphenol	NE	NE	NE	NE	NE	NE	NE	NE	< 0.42	< 0.39	< 0.40	< 0.39	< 0.62	< 0.43	
2-Chloronaphthalene	6,300	NE	160,000	NE	240	SS	NE	NE	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	
2-Chlorophenol	390	53,000	10,000	53,000	1.5	*	10,000	7,100	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	
4-Chlorophenyl Phenyl Ether	NE	NE	NE	NE	NE	NE	NE	NE	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	
Dibenzofuran	NC	NC	820	NC	NC	*	NE	NE	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	
1,2-Dichlorobenzene	7,000	560	18,000	310	43	*	560	210	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	
1,3-Dichlorobenzene	NE	NE	NE	NE	NE	NE	NE	NE	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	
1,4-Dichlorobenzene	NC	NC	NC	340	11	*	NE	NE	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	
3,3-Dichlorobenzidine	1.0	NC	280	NC	0.033	1.3	NE	NE	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	
2,4-Dichlorophenol	230	NC	610	NC	0.48	*	NE	NE	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	
Diethyl Phthalate	63,000	2,000	1,000,000	2,000	470	*	2,200	920	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	
2,4-Dimethylphenol	1,600	NC	41,000	NC	9.0	*	10,000	4,700	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	
Dimethyl Phthalate	NE	NE	NE	NE	NE	NE	NE	NE	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	
4,6-Dinitro-2-Methylphenol	7.8	NE	820	NE	0.0031	SS	NE	NE	< 0.42	< 0.39	< 0.40	< 0.39	< 0.62	< 0.43	
2,4-Dinitrophenol	160	NC	410	NC	0.2	3.3	NE	NE	< 1.1	< 0.98	< 1.0	< 0.98	< 1.6	< 1.1	
2,4-Dinitrotoluene	0.9	NC	180	NC	0.0008	0.25	NE	NE	< 0.042	< 0.039	< 0.040	< 0.039	< 0.062	< 0.043	
2,6-Dinitrotoluene	0.9	NC	180	NC	0.0007	0.26	NE	NE	< 0.042	< 0.039	< 0.040	< 0.039	< 0.062	< 0.043	
Di-n-Butyl Phthalate	7,800	2,300	200,000	2,300	2,300	*	2,600	880	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	
Di-n-Octylphthalate	1,600	10,000	4,100	10,000	10,000	*	16	5	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	
Hexachlorobenzene	0.4	1.0	78	2.6	11	*	NE	NE	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	

SVOCs

Table III

Soil Analytical Results - SVOCs

Analyte	IEPA SROs						C <sub>SAT</sub> Outdoor Inhalation	C <sub>SAT</sub> SC of GW Ing	Sample Date	B-109B (3-5) 11/12/18 Depth (ft) 3-5	B-110B (1-3) 11/12/18 1-3	B-110B (3-5) 11/12/18 3-5	B-111B (1-3) 10/16/18 1-3	B-114B (1-3) 11/13/18 1-3	B-114B (3-5) 11/13/18 3-5
	Residential		Construction Worker		G.W. Ing.	ADL									
	Ingestion	Inhalation	Ingestion	Inhalation	Class II										
Hexachlorobutadiene	78	150	200	72	11	NE	NE	NE	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	
Hexachlorocyclopentadiene	550	10	14,000	1.1	2,200	*	130	44	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	
Hexachloroethane	78	NC	2,000	NC	2.6	*	NE	NE	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	
Isophorone	15,600	4,600	410,000	4,600	8.0	*	3,000	3,000	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	
2-Methylnaphthalene	310	NC	820	NC	10	SS	NE	NE	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	
2-Methylphenol (o-Cresol)	3,900	NC	100,000	NC	15	*	NE	NE	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	
4-Methylphenol (m,p-Cresols)	390	NE	1,000	NE	0.2	SS	NE	NE	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	
2-Nitroaniline	230	35	610	3.6	0.14	SS	NE	NE	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	
3-Nitroaniline	23	250	61	26	0.01	SS	NE	NE	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	
4-Nitroaniline	230	1,000	610	110	0.1	SS	NE	NE	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	
2-Nitrophenol	NE	NE	NE	NE	NE	NE	NE	NE	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	
4-Nitrophenol	NC	NC	NC	NC	NC	NE	NE	NE	< 0.42	< 0.39	< 0.40	< 0.39	< 0.62	< 0.43	
Nitrobenzene	39	92	1,000	9.4	0.1	0.26	710	590	< 0.042	< 0.039	< 0.040	< 0.039	< 0.062	< 0.043	
n-Nitrosodimethylamine	0.013	0.012	1.6	0.032	0.0000067	NE	NE	NE	< 0.042	< 0.039	< 0.040	< 0.20	< 0.062	< 0.043	
n-Nitroso-di-n-Propylamine	0.09	NC	18	NC	0.00005	0.0018	1,900	2,300	< 0.22	< 0.20	< 0.21	< 0.039	< 0.32	< 0.22	
n-Nitrosodiphenylamine	130	NC	25,000	NC	5.6	*	NE	NE	< 0.22	< 0.20	< 0.21	< 0.039	< 0.32	< 0.22	
2,2'-oxybis(1-Chloropropane) (Bis(2-chloroisopropyl)ether)	3,100	1,300	8,200	1,300	2.4	SS	NE	NE	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	
Pentachlorophenol	3	NC	520	NC	0.1	*	NE	NE	< 0.086	< 0.079	< 0.082	< 0.039	< 0.13	< 0.088	
Phenol	23,000	NC	61,000	NC	100	*	NE	NE	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	
Pyridine	78	100,000	2,000	4,800	0.028	NE	NE	NE	< 0.86	< 0.79	< 0.82	< 0.79	< 1.3	< 0.88	
1,2,4-Trichlorobenzene	780	3,200	2,000	920	53	*	340	120	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	
2,4,5-Trichlorophenol	7,800	NC	200,000	NC	26	*	NE	NE	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	
2,4,6-Trichlorophenol	58	200	11,000	540	0.07	0.66	NE	NE	< 0.22	< 0.20	< 0.21	< 0.20	< 0.32	< 0.22	

NOTES:

- All results expressed in milligrams per kilogram (mg/kg).
- NA = Not analyzed for this constituent.
- NC = No toxicity criteria for this exposure route.
- NE = No established IEPA SRO for this analyte.
- Samples were analyzed utilizing EPA Method SW-8270C-SIM(3550B).
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- Bold values** = Concentration exceeds soil ing. and/or inh. exposure route for residential Tier 1 SROs.
- = Concentration exceeds soil ing. and/or inh. exposure route for construction worker Tier 1 SROs.
- = Concentration exceeds soil component of the groundwater ing. exposure route for Class I and/or Class II Tier 1 SROs.
- \* = The ADL is less than or equal to the specified remediation objective.
- SS = Site-specific based upon wet weight of soil.

Table III

Soil Analytical Results - SVOCs

Analyte	IEPA SROs						C <sub>SAT</sub> Outdoor Inhalation	C <sub>SAT</sub> SC of GW Ing	Sample Date Depth (ft)	B-115B (1-3)	B-115B (3-5)	B-116B (1-3)	B-116B (3-5)	B-117B (1-3)	B-117B (3-5)
	Residential		Construction Worker		G.W. Ing. Class II	ADL				11/13/18	11/13/18	11/12/18	11/12/18	11/13/18	11/13/18
	Ingestion	Inhalation	Ingestion	Inhalation						1-3	3-5	1-3	3-5	1-3	3-5
Aniline	110	83	1400	8.6	0.063	SS	NE	NE	< 0.39	< 0.40	< 0.39	< 0.42	< 0.40	< 0.38	
Benzidine	0.003	0.009	0.54	0.02	0.000002	NE	NE	NE	< 0.39	< 0.40	< 0.39	< 0.42	< 0.40	< 0.38	
Benzoic Acid	310,000	NC	820,000	NC	400	*	NE	NE	< 0.97	< 1.0	< 0.97	< 1.0	< 1.0	< 0.96	
Benzyl Alcohol	39,000	6,100	200,000	6,100	15	SS	NE	NE	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	
Bis(2-chloroethoxy)methane	NE	NE	NE	NE	NE	NE	NE	NE	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	
Bis(2-chloroethyl)ether	0.6	0.2	75	0.66	0.0004	0.66	3,000	3,900	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	
Bis(2-ethylhexyl)phthalate	46	31,000	4,100	31,000	31,000	*	200	68	< 0.97	< 1.0	< 0.97	< 1.0	< 1.0	< 0.96	
4-Bromophenyl Phenyl Ether	NE	NE	NE	NE	NE	NE	NE	NE	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	
Butyl Benzyl Phthalate	16,000	930	410,000	930	930	*	1,000	340	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	
Carbazole	32	NE	6,200	NE	2.8	NE	NE	NE	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	
4-Chloroaniline	310	NC	820	NC	0.7	*	NE	NE	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	
4-Chloro-3-Methylphenol	NE	NE	NE	NE	NE	NE	NE	NE	< 0.39	< 0.40	< 0.39	< 0.42	< 0.40	< 0.38	
2-Chloronaphthalene	6,300	NE	160,000	NE	240	SS	NE	NE	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	
2-Chlorophenol	390	53,000	10,000	53,000	1.5	*	10,000	7,100	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	
4-Chlorophenyl Phenyl Ether	NE	NE	NE	NE	NE	NE	NE	NE	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	
Dibenzofuran	NC	NC	820	NC	NC	*	NE	NE	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	
1,2-Dichlorobenzene	7,000	560	18,000	310	43	*	560	210	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	
1,3-Dichlorobenzene	NE	NE	NE	NE	NE	NE	NE	NE	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	
1,4-Dichlorobenzene	NC	NC	NC	340	11	*	NE	NE	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	
3,3-Dichlorobenzidine	1.0	NC	280	NC	0.033	1.3	NE	NE	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	
2,4-Dichlorophenol	230	NC	610	NC	0.48	*	NE	NE	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	
Diethyl Phthalate	63,000	2,000	1,000,000	2,000	470	*	2,200	920	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	
2,4-Dimethylphenol	1,600	NC	41,000	NC	9.0	*	10,000	4,700	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	
Dimethyl Phthalate	NE	NE	NE	NE	NE	NE	NE	NE	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	
4,6-Dinitro-2-Methylphenol	7.8	NE	820	NE	0.0031	SS	NE	NE	< 0.39	< 0.40	< 0.39	< 0.42	< 0.40	< 0.38	
2,4-Dinitrophenol	160	NC	410	NC	0.2	3.3	NE	NE	< 0.97	< 1.0	< 0.97	< 1.0	< 1.0	< 0.96	
2,4-Dinitrotoluene	0.9	NC	180	NC	0.0008	0.25	NE	NE	< 0.039	< 0.040	< 0.039	< 0.042	< 0.040	< 0.038	
2,6-Dinitrotoluene	0.9	NC	180	NC	0.0007	0.26	NE	NE	< 0.039	< 0.040	< 0.039	< 0.042	< 0.040	< 0.038	
Di-n-Butyl Phthalate	7,800	2,300	200,000	2,300	2,300	*	2,600	880	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	
Di-n-Octylphthalate	1,600	10,000	4,100	10,000	10,000	*	16	5	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	
Hexachlorobenzene	0.4	1.0	78	2.6	11	*	NE	NE	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	

SVOCs

Table III

## Soil Analytical Results - SVOCs

Analyte	IEPA SROs						C <sub>SAT</sub> Outdoor Inhalation	C <sub>SAT</sub> SC of GW Ing	Sample Date	B-115B (1-3) 11/13/18 Depth (ft) 1-3	B-115B (3-5) 11/13/18 3-5	B-116B (1-3) 11/12/18 1-3	B-116B (3-5) 11/12/18 3-5	B-117B (1-3) 11/13/18 1-3	B-117B (3-5) 11/13/18 3-5
	Residential		Construction Worker		G.W. Ing.	ADL									
	Ingestion	Inhalation	Ingestion	Inhalation	Class II										
Hexachlorobutadiene	78	150	200	72	11	NE	NE	NE	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	
Hexachlorocyclopentadiene	550	10	14,000	1.1	2,200	*	130	44	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	
Hexachloroethane	78	NC	2,000	NC	2.6	*	NE	NE	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	
Isophorone	15,600	4,600	410,000	4,600	8.0	*	3,000	3,000	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	
2-Methylnaphthalene	310	NC	820	NC	10	SS	NE	NE	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	
2-Methylphenol (o-Cresol)	3,900	NC	100,000	NC	15	*	NE	NE	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	
4-Methylphenol (m,p-Cresols)	390	NE	1,000	NE	0.2	SS	NE	NE	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	
2-Nitroaniline	230	35	610	3.6	0.14	SS	NE	NE	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	
3-Nitroaniline	23	250	61	26	0.01	SS	NE	NE	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	
4-Nitroaniline	230	1,000	610	110	0.1	SS	NE	NE	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	
2-Nitrophenol	NE	NE	NE	NE	NE	NE	NE	NE	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	
4-Nitrophenol	NC	NC	NC	NC	NC	NE	NE	NE	< 0.39	< 0.40	< 0.39	< 0.42	< 0.40	< 0.38	
Nitrobenzene	39	92	1,000	9.4	0.1	0.26	710	590	< 0.039	< 0.040	< 0.039	< 0.042	< 0.040	< 0.038	
n-Nitrosodimethylamine	0.013	0.012	1.6	0.032	0.0000067	NE	NE	NE	< 0.039	< 0.040	< 0.039	< 0.042	< 0.040	< 0.038	
n-Nitroso-di-n-Propylamine	0.09	NC	18	NC	0.00005	0.0018	1,900	2,300	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	
n-Nitrosodiphenylamine	130	NC	25,000	NC	5.6	*	NE	NE	< 0.20	< 0.21	< 0.039	< 0.042	< 0.20	< 0.20	
2,2'-oxybis(1-Chloropropane) (Bis(2-chloroisopropyl)ether)	3,100	1,300	8,200	1,300	2.4	SS	NE	NE	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	
Pentachlorophenol	3	NC	520	NC	0.1	*	NE	NE	< 0.078	< 0.081	< 0.039	< 0.042	< 0.080	< 0.077	
Phenol	23,000	NC	61,000	NC	100	*	NE	NE	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	
Pyridine	78	100,000	2,000	4,800	0.028	NE	NE	NE	< 0.78	< 0.81	< 0.78	< 0.84	< 0.80	< 0.77	
1,2,4-Trichlorobenzene	780	3,200	2,000	920	53	*	340	120	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	
2,4,5-Trichlorophenol	7,800	NC	200,000	NC	26	*	NE	NE	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	
2,4,6-Trichlorophenol	58	200	11,000	540	0.07	0.66	NE	NE	< 0.20	< 0.21	< 0.20	< 0.22	< 0.20	< 0.20	

## NOTES:

- All results expressed in milligrams per kilogram (mg/kg).
- NA = Not analyzed for this constituent.
- NC = No toxicity criteria for this exposure route.
- NE = No established IEPA SRO for this analyte.
- Samples were analyzed utilizing EPA Method SW-8270C-SIM(3550B).
- G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
- Bold values** = Concentration exceeds soil ing. and/or inh. exposure route for residential Tier 1 SROs.
- = Concentration exceeds soil ing. and/or inh. exposure route for construction worker Tier 1 SROs.
- = Concentration exceeds soil component of the groundwater ing. exposure route for Class I and/or Class II Tier 1 SROs.
- \* = The ADL is less than or equal to the specified remediation objective.
- SS = Site-specific based upon wet weight of soil.



Table III

## Soil Analytical Results - SVOCs

Analyte	IEPA SROs						C <sub>SAT</sub> Outdoor Inhalation	C <sub>SAT</sub> SC of GW Ing	Sample Date Depth (ft)	B-118B (1-3) 11/13/18 1-3	B-118B (3-5) 11/13/18 3-5	B-205B (1-3) 11/29/18 1-3	B-206B (1-3) 11/29/18 1-3	B-206B (3-5) 11/29/18 3-5	B-207B (1-3) 11/29/18 1-3
	Residential		Construction Worker		G.W. Ing. Class II	ADL									
	Ingestion	Inhalation	Ingestion	Inhalation											
Aniline	110	83	1400	8.6	0.063	SS	NE	NE	< 0.39	< 0.41	NA	NA	NA	NA	NA
Benzidine	0.003	0.009	0.54	0.02	0.000002	NE	NE	NE	< 0.39	< 0.41	NA	NA	NA	NA	NA
Benzoic Acid	310,000	NC	820,000	NC	400	*	NE	NE	< 0.97	< 1.0	NA	NA	NA	NA	NA
Benzyl Alcohol	39,000	6,100	200,000	6,100	15	SS	NE	NE	< 0.20	< 0.21	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	NE	NE	NE	NE	NE	NE	NE	NE	< 0.20	< 0.21	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	0.6	0.2	75	0.66	0.0004	0.66	3,000	3,900	< 0.20	< 0.21	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	46	31,000	4,100	31,000	31,000	*	200	68	< 0.97	< 1.0	NA	NA	NA	NA	NA
4-Bromophenyl Phenyl Ether	NE	NE	NE	NE	NE	NE	NE	NE	< 0.20	< 0.21	NA	NA	NA	NA	NA
Butyl Benzyl Phthalate	16,000	930	410,000	930	930	*	1,000	340	< 0.20	< 0.21	NA	NA	NA	NA	NA
Carbazole	32	NE	6,200	NE	2.8	NE	NE	NE	< 0.20	< 0.21	NA	NA	NA	NA	NA
4-Chloroaniline	310	NC	820	NC	0.7	*	NE	NE	< 0.20	< 0.21	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	NE	NE	NE	NE	NE	NE	NE	NE	< 0.39	< 0.41	NA	NA	NA	NA	NA
2-Chloronaphthalene	6,300	NE	160,000	NE	240	SS	NE	NE	< 0.20	< 0.21	NA	NA	NA	NA	NA
2-Chlorophenol	390	53,000	10,000	53,000	1.5	*	10,000	7,100	< 0.20	< 0.21	NA	NA	NA	NA	NA
4-Chlorophenyl Phenyl Ether	NE	NE	NE	NE	NE	NE	NE	NE	< 0.20	< 0.21	NA	NA	NA	NA	NA
Dibenzofuran	NC	NC	820	NC	NC	*	NE	NE	< 0.20	< 0.21	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	7,000	560	18,000	310	43	*	560	210	< 0.20	< 0.21	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NE	NE	NE	NE	NE	NE	NE	NE	< 0.20	< 0.21	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NC	NC	NC	340	11	*	NE	NE	< 0.20	< 0.21	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	1.0	NC	280	NC	0.033	1.3	NE	NE	< 0.20	< 0.21	NA	NA	NA	NA	NA
2,4-Dichlorophenol	230	NC	610	NC	0.48	*	NE	NE	< 0.20	< 0.21	NA	NA	NA	NA	NA
Diethyl Phthalate	63,000	2,000	1,000,000	2,000	470	*	2,200	920	< 0.20	< 0.21	NA	NA	NA	NA	NA
2,4-Dimethylphenol	1,600	NC	41,000	NC	9.0	*	10,000	4,700	< 0.20	< 0.21	NA	NA	NA	NA	NA
Dimethyl Phthalate	NE	NE	NE	NE	NE	NE	NE	NE	< 0.20	< 0.21	NA	NA	NA	NA	NA
4,6-Dinitro-2-Methylphenol	7.8	NE	820	NE	0.0031	SS	NE	NE	< 0.39	< 0.41	NA	NA	NA	NA	NA
2,4-Dinitrophenol	160	NC	410	NC	0.2	3.3	NE	NE	< 0.97	< 1.0	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	0.9	NC	180	NC	0.0008	0.25	NE	NE	< 0.039	< 0.041	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	0.9	NC	180	NC	0.0007	0.26	NE	NE	< 0.039	< 0.041	NA	NA	NA	NA	NA
Di-n-Butyl Phthalate	7,800	2,300	200,000	2,300	2,300	*	2,600	880	< 0.20	< 0.21	NA	NA	NA	NA	NA
Di-n-Octylphthalate	1,600	10,000	4,100	10,000	10,000	*	16	5	< 0.20	< 0.21	NA	NA	NA	NA	NA
Hexachlorobenzene	0.4	1.0	78	2.6	11	*	NE	NE	< 0.20	< 0.21	NA	NA	NA	NA	NA

Table III

## Soil Analytical Results - SVOCs

Analyte	IEPA SROs						C <sub>SAT</sub> Outdoor Inhalation	C <sub>SAT</sub> SC of GW Ing	Sample Date Depth (ft)	B-118B (1-3)	B-118B (3-5)	B-205B (1-3)	B-206B (1-3)	B-206B (3-5)	B-207B (1-3)
	Residential		Construction Worker		G.W. Ing.	ADL				11/13/18	11/13/18	11/29/18	11/29/18	11/29/18	11/29/18
	Ingestion	Inhalation	Ingestion	Inhalation	Class II					1-3	3-5	1-3	1-3	3-5	1-3
Hexachlorobutadiene	78	150	200	72	11	NE	NE	NE	< 0.20	< 0.21	NA	NA	NA	NA	
Hexachlorocyclopentadiene	550	10	14,000	1.1	2,200	*	130	44	< 0.20	< 0.21	NA	NA	NA	NA	
Hexachloroethane	78	NC	2,000	NC	2.6	*	NE	NE	< 0.20	< 0.21	NA	NA	NA	NA	
Isophorone	15,600	4,600	410,000	4,600	8.0	*	3,000	3,000	< 0.20	< 0.21	NA	NA	NA	NA	
2-Methylnaphthalene	310	NC	820	NC	10	SS	NE	NE	< 0.20	< 0.21	NA	NA	NA	NA	
2-Methylphenol (o-Cresol)	3,900	NC	100,000	NC	15	*	NE	NE	< 0.20	< 0.21	NA	NA	NA	NA	
4-Methylphenol (m,p-Cresols)	390	NE	1,000	NE	0.2	SS	NE	NE	< 0.20	< 0.21	NA	NA	NA	NA	
2-Nitroaniline	230	35	610	3.6	0.14	SS	NE	NE	< 0.20	< 0.21	NA	NA	NA	NA	
3-Nitroaniline	23	250	61	26	0.01	SS	NE	NE	< 0.20	< 0.21	NA	NA	NA	NA	
4-Nitroaniline	230	1,000	610	110	0.1	SS	NE	NE	< 0.20	< 0.21	NA	NA	NA	NA	
2-Nitrophenol	NE	NE	NE	NE	NE	NE	NE	NE	< 0.20	< 0.21	NA	NA	NA	NA	
4-Nitrophenol	NC	NC	NC	NC	NC	NE	NE	NE	< 0.39	< 0.41	NA	NA	NA	NA	
Nitrobenzene	39	92	1,000	9.4	0.1	0.26	710	590	< 0.039	< 0.041	NA	NA	NA	NA	
n-Nitrosodimethylamine	0.013	0.012	1.6	0.032	0.0000067	NE	NE	NE	< 0.039	< 0.041	NA	NA	NA	NA	
n-Nitroso-di-n-Propylamine	0.09	NC	18	NC	0.00005	0.0018	1,900	2,300	< 0.20	< 0.21	NA	NA	NA	NA	
n-Nitrosodiphenylamine	130	NC	25,000	NC	5.6	*	NE	NE	< 0.20	< 0.21	NA	NA	NA	NA	
2,2'-oxybis(1-Chloropropane) (Bis(2-chloroisopropyl)ether)	3,100	1,300	8,200	1,300	2.4	SS	NE	NE	< 0.20	< 0.21	NA	NA	NA	NA	
Pentachlorophenol	3	NC	520	NC	0.1	*	NE	NE	< 0.079	< 0.083	NA	NA	NA	NA	
Phenol	23,000	NC	61,000	NC	100	*	NE	NE	< 0.20	< 0.21	NA	NA	NA	NA	
Pyridine	78	100,000	2,000	4,800	0.028	NE	NE	NE	< 0.79	< 0.83	NA	NA	NA	NA	
1,2,4-Trichlorobenzene	780	3,200	2,000	920	53	*	340	120	< 0.20	< 0.21	NA	NA	NA	NA	
2,4,5-Trichlorophenol	7,800	NC	200,000	NC	26	*	NE	NE	< 0.20	< 0.21	NA	NA	NA	NA	
2,4,6-Trichlorophenol	58	200	11,000	540	0.07	0.66	NE	NE	< 0.20	< 0.21	NA	NA	NA	NA	

## NOTES:

- All results expressed in milligrams per kilogram (mg/kg).
- NA = Not analyzed for this constituent.
- NC = No toxicity criteria for this exposure route.
- NE = No established IEPA SRO for this analyte.
- Samples were analyzed utilizing EPA Method SW-8270C-SIM(3550B).
- G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
- Bold values** = Concentration exceeds soil ing. and/or inh. exposure route for residential Tier 1 SROs.
- = Concentration exceeds soil ing. and/or inh. exposure route for construction worker Tier 1 SROs.
- = Concentration exceeds soil component of the groundwater ing. exposure route for Class I and/or Class II Tier 1 SROs.
- \* = The ADL is less than or equal to the specified remediation objective.
- SS = Site-specific based upon wet weight of soil.

Table III

Soil Analytical Results - SVOCs

Analyte	IEPA SROs						C <sub>SAT</sub> Outdoor Inhalation	C <sub>SAT</sub> SC of GW Ing	Sample Date Depth (ft)	B-207B (3-5)	B-208B (1-3)	B-208B (3-5)	B-209B (1-3)	B-209B (3-5)	B-210B (1-3)
	Residential		Construction Worker		G.W. Ing.	ADL				11/29/18	11/29/18	11/29/18	11/29/18	11/29/18	11/29/18
	Ingestion	Inhalation	Ingestion	Inhalation	Class II					3-5	1-3	3-5	1-3	3-5	1-3
Aniline	110	83	1400	8.6	0.063	SS	NE	NE	NA	NA	NA	NA	NA	NA	NA
Benzidine	0.003	0.009	0.54	0.02	0.000002	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
Benzoic Acid	310,000	NC	820,000	NC	400	*	NE	NE	NA	NA	NA	NA	NA	NA	NA
Benzyl Alcohol	39,000	6,100	200,000	6,100	15	SS	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	NE	NE	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	0.6	0.2	75	0.66	0.0004	0.66	3,000	3,900	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	46	31,000	4,100	31,000	31,000	*	200	68	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl Phenyl Ether	NE	NE	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
Butyl Benzyl Phthalate	16,000	930	410,000	930	930	*	1,000	340	NA	NA	NA	NA	NA	NA	NA
Carbazole	32	NE	6,200	NE	2.8	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	310	NC	820	NC	0.7	*	NE	NE	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	NE	NE	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	6,300	NE	160,000	NE	240	SS	NE	NE	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	390	53,000	10,000	53,000	1.5	*	10,000	7,100	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl Phenyl Ether	NE	NE	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NC	NC	820	NC	NC	*	NE	NE	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	7,000	560	18,000	310	43	*	560	210	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NE	NE	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NC	NC	NC	340	11	*	NE	NE	NA	NA	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	1.0	NC	280	NC	0.033	1.3	NE	NE	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	230	NC	610	NC	0.48	*	NE	NE	NA	NA	NA	NA	NA	NA	NA
Diethyl Phthalate	63,000	2,000	1,000,000	2,000	470	*	2,200	920	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	1,600	NC	41,000	NC	9.0	*	10,000	4,700	NA	NA	NA	NA	NA	NA	NA
Dimethyl Phthalate	NE	NE	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-Methylphenol	7.8	NE	820	NE	0.0031	SS	NE	NE	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	160	NC	410	NC	0.2	3.3	NE	NE	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	0.9	NC	180	NC	0.0008	0.25	NE	NE	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	0.9	NC	180	NC	0.0007	0.26	NE	NE	NA	NA	NA	NA	NA	NA	NA
Di-n-Butyl Phthalate	7,800	2,300	200,000	2,300	2,300	*	2,600	880	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	1,600	10,000	4,100	10,000	10,000	*	16	5	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.4	1.0	78	2.6	11	*	NE	NE	NA	NA	NA	NA	NA	NA	NA

SVOCs

Table III

Soil Analytical Results - SVOCs

Analyte	IEPA SROs						C <sub>SAT</sub> Outdoor Inhalation	C <sub>SAT</sub> SC of GW Ing	Sample Date	B-207B (3-5) 11/29/18	B-208B (1-3) 11/29/18	B-208B (3-5) 11/29/18	B-209B (1-3) 11/29/18	B-209B (3-5) 11/29/18	B-210B (1-3) 11/29/18
	Residential		Construction Worker		G.W. Ing.	ADL									
	Ingestion	Inhalation	Ingestion	Inhalation	Class II										
Hexachlorobutadiene	78	150	200	72	11	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	550	10	14,000	1.1	2,200	*	130	44	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	78	NC	2,000	NC	2.6	*	NE	NE	NA	NA	NA	NA	NA	NA	NA
Isophorone	15,600	4,600	410,000	4,600	8.0	*	3,000	3,000	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	310	NC	820	NC	10	SS	NE	NE	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol (o-Cresol)	3,900	NC	100,000	NC	15	*	NE	NE	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol (m,p-Cresols)	390	NE	1,000	NE	0.2	SS	NE	NE	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	230	35	610	3.6	0.14	SS	NE	NE	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	23	250	61	26	0.01	SS	NE	NE	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	230	1,000	610	110	0.1	SS	NE	NE	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NE	NE	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NC	NC	NC	NC	NC	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	39	92	1,000	9.4	0.1	0.26	710	590	NA	NA	NA	NA	NA	NA	NA
n-Nitrosodimethylamine	0.013	0.012	1.6	0.032	0.0000067	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
n-Nitroso-di-n-Propylamine	0.09	NC	18	NC	0.00005	0.0018	1,900	2,300	NA	NA	NA	NA	NA	NA	NA
n-Nitrosodiphenylamine	130	NC	25,000	NC	5.6	*	NE	NE	NA	NA	NA	NA	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (Bis(2-chloroisopropyl)ether)	3,100	1,300	8,200	1,300	2.4	SS	NE	NE	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	3	NC	520	NC	0.1	*	NE	NE	NA	NA	NA	NA	NA	NA	NA
Phenol	23,000	NC	61,000	NC	100	*	NE	NE	NA	NA	NA	NA	NA	NA	NA
Pyridine	78	100,000	2,000	4,800	0.028	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	780	3,200	2,000	920	53	*	340	120	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	7,800	NC	200,000	NC	26	*	NE	NE	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	58	200	11,000	540	0.07	0.66	NE	NE	NA	NA	NA	NA	NA	NA	NA

NOTES:

1. All results expressed in milligrams per kilogram (mg/kg).
2. NA = Not analyzed for this constituent.
3. NC = No toxicity criteria for this exposure route.
4. NE = No established IEPA SRO for this analyte.
5. Samples were analyzed utilizing EPA Method SW-8270C-SIM(3550B).
6. G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
7. **Bold values** = Concentration exceeds soil ing. and/or inh. exposure route for residential Tier 1 SROs.
8. **○** = Concentration exceeds soil ing. and/or inh. exposure route for construction worker Tier 1 SROs.
9. **■** = Concentration exceeds soil component of the groundwater ing. exposure route for Class I and/or Class II Tier 1 SROs.
10. \* = The ADL is less than or equal to the specified remediation objective.
11. SS = Site-specific based upon wet weight of soil.

Table III

Soil Analytical Results - SVOCs

Analyte	IEPA SROs						C <sub>SAT</sub> Outdoor Inhalation	C <sub>SAT</sub> SC of GW Ing	Sample Date Depth (ft)	B-211B (1-3)	B-211B (3-5)	B-212B (1-3)	B-213B (1-3)	B-214B (1-3)	B-214 (3-5)
	Residential		Construction Worker		G.W. Ing. Class II	ADL				11/29/18	11/29/18	11/29/18	11/29/18	11/29/18	11/29/18
	Ingestion	Inhalation	Ingestion	Inhalation						1-3	3-5	1-3	1-3	1-3	3-5
Aniline	110	83	1400	8.6	0.063	SS	NE	NE	NA	NA	NA	NA	NA	NA	NA
Benzidine	0.003	0.009	0.54	0.02	0.000002	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
Benzoic Acid	310,000	NC	820,000	NC	400	*	NE	NE	NA	NA	NA	NA	NA	NA	NA
Benzyl Alcohol	39,000	6,100	200,000	6,100	15	SS	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	NE	NE	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	0.6	0.2	75	0.66	0.0004	0.66	3,000	3,900	NA	NA	NA	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	46	31,000	4,100	31,000	31,000	*	200	68	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl Phenyl Ether	NE	NE	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
Butyl Benzyl Phthalate	16,000	930	410,000	930	930	*	1,000	340	NA	NA	NA	NA	NA	NA	NA
Carbazole	32	NE	6,200	NE	2.8	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	310	NC	820	NC	0.7	*	NE	NE	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	NE	NE	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	6,300	NE	160,000	NE	240	SS	NE	NE	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	390	53,000	10,000	53,000	1.5	*	10,000	7,100	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl Phenyl Ether	NE	NE	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NC	NC	820	NC	NC	*	NE	NE	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	7,000	560	18,000	310	43	*	560	210	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NE	NE	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NC	NC	NC	340	11	*	NE	NE	NA	NA	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	1.0	NC	280	NC	0.033	1.3	NE	NE	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	230	NC	610	NC	0.48	*	NE	NE	NA	NA	NA	NA	NA	NA	NA
Diethyl Phthalate	63,000	2,000	1,000,000	2,000	470	*	2,200	920	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	1,600	NC	41,000	NC	9.0	*	10,000	4,700	NA	NA	NA	NA	NA	NA	NA
Dimethyl Phthalate	NE	NE	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-Methylphenol	7.8	NE	820	NE	0.0031	SS	NE	NE	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	160	NC	410	NC	0.2	3.3	NE	NE	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	0.9	NC	180	NC	0.0008	0.25	NE	NE	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	0.9	NC	180	NC	0.0007	0.26	NE	NE	NA	NA	NA	NA	NA	NA	NA
Di-n-Butyl Phthalate	7,800	2,300	200,000	2,300	2,300	*	2,600	880	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	1,600	10,000	4,100	10,000	10,000	*	16	5	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.4	1.0	78	2.6	11	*	NE	NE	NA	NA	NA	NA	NA	NA	NA

SVOCs

Table III

## Soil Analytical Results - SVOCs

Analyte	IEPA SROs						C <sub>SAT</sub> Outdoor Inhalation	C <sub>SAT</sub> SC of GW Ing	Sample Date	B-211B (1-3) 11/29/18 Depth (ft) 1-3	B-211B (3-5) 11/29/18 3-5	B-212B (1-3) 11/29/18 1-3	B-213B (1-3) 11/29/18 1-3	B-214B (1-3) 11/29/18 1-3	B-214 (3-5) 11/29/18 3-5
	Residential		Construction Worker		G.W. Ing.	ADL									
	Ingestion	Inhalation	Ingestion	Inhalation	Class II										
Hexachlorobutadiene	78	150	200	72	11	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	550	10	14,000	1.1	2,200	*	130	44	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	78	NC	2,000	NC	2.6	*	NE	NE	NA	NA	NA	NA	NA	NA	NA
Isophorone	15,600	4,600	410,000	4,600	8.0	*	3,000	3,000	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	310	NC	820	NC	10	SS	NE	NE	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol (o-Cresol)	3,900	NC	100,000	NC	15	*	NE	NE	NA	NA	NA	NA	NA	NA	NA
4-Methylphenol (m,p-Cresols)	390	NE	1,000	NE	0.2	SS	NE	NE	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	230	35	610	3.6	0.14	SS	NE	NE	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	23	250	61	26	0.01	SS	NE	NE	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	230	1,000	610	110	0.1	SS	NE	NE	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NE	NE	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NC	NC	NC	NC	NC	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	39	92	1,000	9.4	0.1	0.26	710	590	NA	NA	NA	NA	NA	NA	NA
n-Nitrosodimethylamine	0.013	0.012	1.6	0.032	0.0000067	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
n-Nitroso-di-n-Propylamine	0.09	NC	18	NC	0.00005	0.0018	1,900	2,300	NA	NA	NA	NA	NA	NA	NA
n-Nitrosodiphenylamine	130	NC	25,000	NC	5.6	*	NE	NE	NA	NA	NA	NA	NA	NA	NA
2,2'-oxybis(1-Chloropropane) (Bis(2-chloroisopropyl)ether)	3,100	1,300	8,200	1,300	2.4	SS	NE	NE	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	3	NC	520	NC	0.1	*	NE	NE	NA	NA	NA	NA	NA	NA	NA
Phenol	23,000	NC	61,000	NC	100	*	NE	NE	NA	NA	NA	NA	NA	NA	NA
Pyridine	78	100,000	2,000	4,800	0.028	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	780	3,200	2,000	920	53	*	340	120	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	7,800	NC	200,000	NC	26	*	NE	NE	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	58	200	11,000	540	0.07	0.66	NE	NE	NA	NA	NA	NA	NA	NA	NA

## NOTES:

- All results expressed in milligrams per kilogram (mg/kg).
- NA = Not analyzed for this constituent.
- NC = No toxicity criteria for this exposure route.
- NE = No established IEPA SRO for this analyte.
- Samples were analyzed utilizing EPA Method SW-8270C-SIM(3550B).
- G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
- Bold values** = Concentration exceeds soil ing. and/or inh. exposure route for residential Tier 1 SROs.
- = Concentration exceeds soil ing. and/or inh. exposure route for construction worker Tier 1 SROs.
- = Concentration exceeds soil component of the groundwater ing. exposure route for Class I and/or Class II Tier 1 SROs.
- \* = The ADL is less than or equal to the specified remediation objective.
- SS = Site-specific based upon wet weight of soil.

Table III

## Soil Analytical Results - SVOCs

Analyte	IEPA SROs						C <sub>SAT</sub> Outdoor Inhalation	C <sub>SAT</sub> SC of GW Ing	Sample Date Depth (ft)	SB-1 03/09/99 1-3	SB-3 03/09/99 1.5-4	SB-4 03/09/99 1-3	SB-5 03/09/99 3-5	SB-6 03/09/99 1-3	SB-8 03/09/99 5-7
	Residential		Construction Worker		G.W. Ing. Class II	ADL									
	Ingestion	Inhalation	Ingestion	Inhalation											
Aniline	110	83	1400	8.6	0.063	SS	NE	NE	NA	NA	NA	NA	NA	NA	NA
Benzidine	0.003	0.009	0.54	0.02	0.000002	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
Benzoic Acid	310,000	NC	820,000	NC	400	*	NE	NE	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99
Benzyl Alcohol	39,000	6,100	200,000	6,100	15	SS	NE	NE	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067
Bis(2-chloroethoxy)methane	NE	NE	NE	NE	NE	NE	NE	NE	<0.083	<0.083	<0.083	<0.083	<0.083	<0.083	<0.083
Bis(2-chloroethyl)ether	0.6	0.2	75	0.66	0.0004	0.66	3,000	3,900	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bis(2-ethylhexyl)phthalate	46	31,000	4,100	31,000	31,000	*	200	68	<0.033	0.48	0.48	0.72	0.48	0.48	0.54
4-Bromophenyl Phenyl Ether	NE	NE	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
Butyl Benzyl Phthalate	16,000	930	410,000	930	930	*	1,000	340	<0.120	<0.120	<0.120	<0.120	<0.120	<0.120	<0.120
Carbazole	32	NE	6,200	NE	2.8	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	310	NC	820	NC	0.7	*	NE	NE	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067
4-Chloro-3-Methylphenol	NE	NE	NE	NE	NE	NE	NE	NE	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
2-Chloronaphthalene	6,300	NE	160,000	NE	240	SS	NE	NE	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
2-Chlorophenol	390	53,000	10,000	53,000	1.5	*	10,000	7,100	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067
4-Chlorophenyl Phenyl Ether	NE	NE	NE	NE	NE	NE	NE	NE	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033
Dibenzofuran	NC	NC	820	NC	NC	*	NE	NE	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033
1,2-Dichlorobenzene	7,000	560	18,000	310	43	*	560	210	<0.083	<0.083	<0.083	<0.083	<0.083	<0.083	<0.083
1,3-Dichlorobenzene	NE	NE	NE	NE	NE	NE	NE	NE	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067
1,4-Dichlorobenzene	NC	NC	NC	340	11	*	NE	NE	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067
3,3-Dichlorobenzidine	1.0	NC	280	NC	0.033	1.3	NE	NE	<0.330	<0.330	<0.330	<0.330	<0.330	<0.330	<0.330
2,4-Dichlorophenol	230	NC	610	NC	0.48	*	NE	NE	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067
Diethyl Phthalate	63,000	2,000	1,000,000	2,000	470	*	2,200	920	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
2,4-Dimethylphenol	1,600	NC	41,000	NC	9.0	*	10,000	4,700	<0.550	<0.550	<0.550	<0.550	<0.550	<0.550	<0.550
Dimethyl Phthalate	NE	NE	NE	NE	NE	NE	NE	NE	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033
4,6-Dinitro-2-Methylphenol	7.8	NE	820	NE	0.0031	SS	NE	NE	<0.550	<0.550	<0.550	<0.550	<0.550	<0.550	<0.550
2,4-Dinitrophenol	160	NC	410	NC	0.2	3.3	NE	NE	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067
2,4-Dinitrotoluene	0.9	NC	180	NC	0.0008	0.25	NE	NE	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033
2,6-Dinitrotoluene	0.9	NC	180	NC	0.0007	0.26	NE	NE	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033
Di-n-Butyl Phthalate	7,800	2,300	200,000	2,300	2,300	*	2,600	880	<0.067	<0.067	0.00065	<0.067	<0.067	<0.067	0.71
Di-n-Octylphthalate	1,600	10,000	4,100	10,000	10,000	*	16	5	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Hexachlorobenzene	0.4	1.0	78	2.6	11	*	NE	NE	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Table III

## Soil Analytical Results - SVOCs

Analyte	IEPA SROs						C <sub>SAT</sub> Outdoor Inhalation	C <sub>SAT</sub> SC of GW Ing	Sample Date	SB-1 03/09/99	SB-3 03/09/99	SB-4 03/09/99	SB-5 03/09/99	SB-6 03/09/99	SB-8 03/09/99
	Residential		Construction Worker		G.W. Ing.	ADL									
	Ingestion	Inhalation	Ingestion	Inhalation	Class II										
								Depth (ft)	1-3	1.5-4	1-3	3-5	1-3	5-7	
Hexachlorobutadiene	78	150	200	72	11	NE	NE	NE	<0.083	<0.083	<0.083	<0.083	<0.083	<0.083	
Hexachlorocyclopentadiene	550	10	14,000	1.1	2,200	*	130	44	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	
Hexachloroethane	78	NC	2,000	NC	2.6	*	NE	NE	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	
Isophorone	15,600	4,600	410,000	4,600	8.0	*	3,000	3,000	<0.083	<0.083	<0.083	<0.083	<0.083	<0.083	
2-Methylnaphthalene	310	NC	820	NC	10	SS	NE	NE	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	
2-Methylphenol (o-Cresol)	3,900	NC	100,000	NC	15	*	NE	NE	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	
4-Methylphenol (m,p-Cresols)	390	NE	1,000	NE	0.2	SS	NE	NE	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	
2-Nitroaniline	230	35	610	3.6	0.14	SS	NE	NE	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033	
3-Nitroaniline	23	250	61	26	0.01	SS	NE	NE	<0.083	<0.083	<0.083	<0.083	<0.083	<0.083	
4-Nitroaniline	230	1,000	610	110	0.1	SS	NE	NE	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	
2-Nitrophenol	NE	NE	NE	NE	NE	NE	NE	NE	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	
4-Nitrophenol	NC	NC	NC	NC	NC	NE	NE	NE	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
Nitrobenzene	39	92	1,000	9.4	0.1	0.26	710	590	<0.083	<0.083	<0.083	<0.083	<0.083	<0.083	
n-Nitrosodimethylamine	0.013	0.012	1.6	0.032	0.0000067	NE	NE	NE	NA	NA	NA	NA	NA	NA	
n-Nitroso-di-n-Propylamine	0.09	NC	18	NC	0.00005	0.0018	1,900	2,300	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
n-Nitrosodiphenylamine	130	NC	25,000	NC	5.6	*	NE	NE	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
2,2'-oxybis(1-Chloropropane) (Bis(2-chloroisopropyl)ether)	3,100	1,300	8,200	1,300	2.4	SS	NE	NE	<0.083	<0.083	<0.083	<0.083	<0.083	<0.083	
Pentachlorophenol	3	NC	520	NC	0.1	*	NE	NE	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	
Phenol	23,000	NC	61,000	NC	100	*	NE	NE	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	
Pyridine	78	100,000	2,000	4,800	0.028	NE	NE	NE	NA	NA	NA	NA	NA	NA	
1,2,4-Trichlorobenzene	780	3,200	2,000	920	53	*	340	120	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	
2,4,5-Trichlorophenol	7,800	NC	200,000	NC	26	*	NE	NE	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
2,4,6-Trichlorophenol	58	200	11,000	540	0.07	0.66	NE	NE	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	

## NOTES:

- All results expressed in milligrams per kilogram (mg/kg).
- NA = Not analyzed for this constituent.
- NC = No toxicity criteria for this exposure route.
- NE = No established IEPA SRO for this analyte.
- Samples were analyzed utilizing EPA Method SW-8270C-SIM(3550B).
- G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
- Bold values** = Concentration exceeds soil ing. and/or inh. exposure route for residential Tier 1 SROs.
- = Concentration exceeds soil ing. and/or inh. exposure route for construction worker Tier 1 SROs.
- = Concentration exceeds soil component of the groundwater ing. exposure route for Class I and/or Class II Tier 1 SROs.
- \* = The ADL is less than or equal to the specified remediation objective.
- SS = Site-specific based upon wet weight of soil.



Table III

## Soil Analytical Results - SVOCs

Analyte	IEPA SROs						C <sub>SAT</sub> Outdoor Inhalation	C <sub>SAT</sub> SC of GW Ing	Sample Date Depth (ft)	SB-9 03/09/99 1-3	SB-10 03/09/99 5-7	SB-11 03/09/99 5-7	SB-12 03/09/99 3-5
	Residential		Construction Worker		G.W. Ing.	ADL							
	Ingestion	Inhalation	Ingestion	Inhalation	Class II								
Aniline	110	83	1400	8.6	0.063	SS	NE	NE	NA	NA	NA	NA	
Benzidine	0.003	0.009	0.54	0.02	0.000002	NE	NE	NE	NA	NA	NA	NA	
Benzoic Acid	310,000	NC	820,000	NC	400	*	NE	NE	<0.99	<0.99	<0.99	<0.99	
Benzyl Alcohol	39,000	6,100	200,000	6,100	15	SS	NE	NE	<0.067	<0.067	<0.067	<0.067	
Bis(2-chloroethoxy)methane	NE	NE	NE	NE	NE	NE	NE	NE	<0.083	<0.083	<0.083	<0.083	
Bis(2-chloroethyl)ether	0.6	0.2	75	0.66	0.0004	0.66	3,000	3,900	<0.050	<0.050	<0.050	<0.050	
Bis(2-ethylhexyl)phthalate	46	31,000	4,100	31,000	31,000	*	200	68	0.55	<0.033	0.55	0.58	
4-Bromophenyl Phenyl Ether	NE	NE	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	
Butyl Benzyl Phthalate	16,000	930	410,000	930	930	*	1,000	340	<0.120	<0.120	<0.120	<0.120	
Carbazole	32	NE	6,200	NE	2.8	NE	NE	NE	NA	NA	NA	NA	
4-Chloroaniline	310	NC	820	NC	0.7	*	NE	NE	<0.067	<0.067	<0.067	<0.067	
4-Chloro-3-Methylphenol	NE	NE	NE	NE	NE	NE	NE	NE	<0.050	<0.050	<0.050	<0.050	
2-Chloronaphthalene	6,300	NE	160,000	NE	240	SS	NE	NE	<0.050	<0.050	<0.050	<0.050	
2-Chlorophenol	390	53,000	10,000	53,000	1.5	*	10,000	7,100	<0.067	<0.067	<0.067	<0.067	
4-Chlorophenyl Phenyl Ether	NE	NE	NE	NE	NE	NE	NE	NE	<0.033	<0.033	<0.033	<0.033	
Dibenzofuran	NC	NC	820	NC	NC	*	NE	NE	<0.033	<0.033	<0.033	<0.033	
1,2-Dichlorobenzene	7,000	560	18,000	310	43	*	560	210	<0.083	<0.083	<0.083	<0.083	
1,3-Dichlorobenzene	NE	NE	NE	NE	NE	NE	NE	NE	<0.067	<0.067	<0.067	<0.067	
1,4-Dichlorobenzene	NC	NC	NC	340	11	*	NE	NE	<0.067	<0.067	<0.067	<0.067	
3,3-Dichlorobenzidine	1.0	NC	280	NC	0.033	1.3	NE	NE	<0.330	<0.330	<0.330	<0.330	
2,4-Dichlorophenol	230	NC	610	NC	0.48	*	NE	NE	<0.067	<0.067	<0.067	<0.067	
Diethyl Phthalate	63,000	2,000	1,000,000	2,000	470	*	2,200	920	<0.050	<0.050	<0.050	<0.050	
2,4-Dimethylphenol	1,600	NC	41,000	NC	9.0	*	10,000	4,700	<0.550	<0.550	<0.550	<0.550	
Dimethyl Phthalate	NE	NE	NE	NE	NE	NE	NE	NE	<0.033	<0.033	<0.033	<0.033	
4,6-Dinitro-2-Methylphenol	7.8	NE	820	NE	0.0031	SS	NE	NE	<0.550	<0.550	<0.550	<0.550	
2,4-Dinitrophenol	160	NC	410	NC	0.2	3.3	NE	NE	<0.067	<0.067	<0.067	<0.067	
2,4-Dinitrotoluene	0.9	NC	180	NC	0.0008	0.25	NE	NE	<0.033	<0.033	<0.033	<0.033	
2,6-Dinitrotoluene	0.9	NC	180	NC	0.0007	0.26	NE	NE	<0.033	<0.033	<0.033	<0.033	
Di-n-Butyl Phthalate	7,800	2,300	200,000	2,300	2,300	*	2,600	880	0.82	0.83	1.1	1.3	
Di-n-Octylphthalate	1,600	10,000	4,100	10,000	10,000	*	16	5	<0.050	<0.050	<0.050	<0.050	
Hexachlorobenzene	0.4	1.0	78	2.6	11	*	NE	NE	<0.050	<0.050	<0.050	<0.050	

Table III

## Soil Analytical Results - SVOCs

Analyte	IEPA SROs						C <sub>SAT</sub> Outdoor Inhalation	C <sub>SAT</sub> SC of GW Ing	Sample	SB-9	SB-10	SB-11	SB-12
	Residential		Construction Worker		G.W. Ing.	ADL			Date	03/09/99	03/09/99	03/09/99	03/09/99
	Ingestion	Inhalation	Ingestion	Inhalation	Class II				Depth (ft)	1-3	5-7	5-7	3-5
Hexachlorobutadiene	78	150	200	72	11	NE	NE	NE	<0.083	<0.083	<0.083	<0.083	
Hexachlorocyclopentadiene	550	10	14,000	1.1	2,200	*	130	44	<0.067	<0.067	<0.067	<0.067	
Hexachloroethane	78	NC	2,000	NC	2.6	*	NE	NE	<0.067	<0.067	<0.067	<0.067	
Isophorone	15,600	4,600	410,000	4,600	8.0	*	3,000	3,000	<0.083	<0.083	<0.083	<0.083	
2-Methylnaphthalene	310	NC	820	NC	10	SS	NE	NE	<0.067	<0.067	<0.067	<0.067	
2-Methylphenol (o-Cresol)	3,900	NC	100,000	NC	15	*	NE	NE	<0.067	<0.067	<0.067	<0.067	
4-Methylphenol (m,p-Cresols)	390	NE	1,000	NE	0.2	SS	NE	NE	<0.067	<0.067	<0.067	<0.067	
2-Nitroaniline	230	35	610	3.6	0.14	SS	NE	NE	<0.033	<0.033	<0.033	<0.033	
3-Nitroaniline	23	250	61	26	0.01	SS	NE	NE	<0.083	<0.083	<0.083	<0.083	
4-Nitroaniline	230	1,000	610	110	0.1	SS	NE	NE	<0.100	<0.100	<0.100	<0.100	
2-Nitrophenol	NE	NE	NE	NE	NE	NE	NE	NE	<0.067	<0.067	<0.067	<0.067	
4-Nitrophenol	NC	NC	NC	NC	NC	NE	NE	NE	<0.050	<0.050	<0.050	<0.050	
Nitrobenzene	39	92	1,000	9.4	0.1	0.26	710	590	<0.083	<0.083	<0.083	<0.083	
n-Nitrosodimethylamine	0.013	0.012	1.6	0.032	0.0000067	NE	NE	NE	NA	NA	NA	NA	
n-Nitroso-di-n-Propylamine	0.09	NC	18	NC	0.00005	0.0018	1,900	2,300	<0.050	<0.050	<0.050	<0.050	
n-Nitrosodiphenylamine	130	NC	25,000	NC	5.6	*	NE	NE	<0.050	<0.050	<0.050	<0.050	
2,2'-oxybis(1-Chloropropane) (Bis(2-chloroisopropyl)ether)	3,100	1,300	8,200	1,300	2.4	SS	NE	NE	<0.083	<0.083	<0.083	<0.083	
Pentachlorophenol	3	NC	520	NC	0.1	*	NE	NE	<0.067	<0.067	<0.067	<0.067	
Phenol	23,000	NC	61,000	NC	100	*	NE	NE	<0.067	<0.067	<0.067	<0.067	
Pyridine	78	100,000	2,000	4,800	0.028	NE	NE	NE	NA	NA	NA	NA	
1,2,4-Trichlorobenzene	780	3,200	2,000	920	53	*	340	120	<0.067	<0.067	<0.067	<0.067	
2,4,5-Trichlorophenol	7,800	NC	200,000	NC	26	*	NE	NE	<0.050	<0.050	<0.050	<0.050	
2,4,6-Trichlorophenol	58	200	11,000	540	0.07	0.66	NE	NE	<0.050	<0.050	<0.050	<0.050	

## NOTES:

- All results expressed in milligrams per kilogram (mg/kg).
- NA = Not analyzed for this constituent.
- NC = No toxicity criteria for this exposure route.
- NE = No established IEPA SRO for this analyte.
- Samples were analyzed utilizing EPA Method SW-8270C-SIM(3550B).
- G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
- Bold values** = Concentration exceeds soil ing. and/or inh. exposure route for residential Tier 1 SROs.
- = Concentration exceeds soil ing. and/or inh. exposure route for construction worker Tier 1 SROs.
- = Concentration exceeds soil component of the groundwater ing. exposure route for Class I and/or Class II Tier 1 SROs.
- \* = The ADL is less than or equal to the specified remediation objective.
- SS = Site-specific based upon wet weight of soil.

Table IV

Soil Analytical Results - PNAs

Analyte	IEPA SROs						Bkgd.	Sample	B-104B (1-3)	B-105B (1-3)	B-105B (3-5)	B-106B (1-3)	B-107B (1-3)	B-108B (1-3)	B-108B (3-5)
	Residential		Construction Worker		G.W. Ing.	ADL	Conc.	Date	11/12/18	11/12/18	11/12/18	10/16/18	10/16/18	11/12/18	11/12/18
	Ingestion	Inhalation	Ingestion	Inhalation	Class II		Level	Depth (ft)	1-3	1-3	3-5	1-3	1-3	1-3	3-5
Acenaphthene	4,700	NC	120,000	NC	2,900	*	0.09		< 0.042	< 0.039	< 0.039	0.52	< 0.044	< 0.040	< 0.043
Acenaphthylene	2,300	NC	61,000	NC	420	*	0.03		< 0.042	< 0.039	< 0.039	2.7	< 0.044	< 0.040	< 0.043
Anthracene	23,000	NC	610,000	NC	59,000	*	0.25		0.11	< 0.039	< 0.039	6.6	< 0.044	0.12	< 0.043
Benz(a)anthracene	0.9	NC	170	NC	8.0	*	1.1		0.58	0.05	< 0.039	19	< 0.044	0.54	< 0.043
Benzo(a)pyrene	0.09	NC	17	NC	82	*	1.3		0.58	0.057	< 0.039	14	< 0.044	0.54	< 0.043
Benzo(b)fluoranthene	0.9	NC	170	NC	25	*	1.5		0.55	0.061	< 0.039	14	< 0.044	0.37	< 0.043
Benzo(g,h,i)perylene	2,300	NC	61,000	NC	130,000	SS	0.68		0.43	0.047	< 0.039	8.3	< 0.044	0.33	< 0.043
Benzo(k)fluoranthene	9.0	NC	1,700	NC	250	*	0.99		0.55	0.044	< 0.039	13	< 0.044	0.5	< 0.043
Chrysene	88	NC	17,000	NC	800	*	1.2		0.64	0.059	< 0.039	18	< 0.044	0.59	< 0.043
Dibenzo(a,h)anthracene	0.09	NC	17	NC	7.6	*	0.2		0.23	< 0.039	< 0.039	4.3	< 0.044	0.17	< 0.043
Fluoranthene	3,100	NC	82,000	NC	21,000	*	2.7		0.97	0.079	< 0.039	47	< 0.044	0.9	< 0.043
Fluorene	3,100	NC	82,000	NC	2,800	*	0.1		< 0.042	< 0.039	< 0.039	1	< 0.044	< 0.040	< 0.043
Indeno(1,2,3-c,d)pyrene	0.9	NC	170	NC	69	*	0.86		0.4	< 0.039	< 0.039	8.1	< 0.044	0.3	< 0.043
Naphthalene	1,600	170	4,100	1.8	18	*	0.04		< 0.042	< 0.039	< 0.039	0.1	< 0.044	< 0.040	< 0.043
Phenanthrene	2,300	NC	61,000	NC	1,000	*	1.3		0.53	< 0.039	< 0.039	14	< 0.044	0.48	< 0.043
Pyrene	2,300	NC	61,000	NC	21,000	*	1.9		0.89	0.076	< 0.039	36	< 0.044	0.97	< 0.043

NOTES:

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- Samples were analyzed utilizing EPA Method SW-8270C(3550B).
- G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
- Bold values** = Concentration exceeds soil ing. and/or inh. exposure route for residential Tier 1 SROs and Chicago background concentration level, if applicable.
- = Concentration exceeds soil ing. and/or inh. exposure route for construction worker Tier 1 SROs.
- = Concentration exceeds soil component of the groundwater ing. exposure route for Class I and/or Class II Tier 1 SROs.
- \* = The ADL is less than or equal to the specified remediation objective.
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Table IV

Soil Analytical Results - PNAs

Analyte	IEPA SROs						Bkgd.	Sample	B-109B (1-3)	B-109B (3-5)	B-110B (1-3)	B-110B (3-5)	B-111B (1-3)	B-114B (1-3)	B-114B (3-5)
	Residential		Construction Worker		G.W. Ing.	ADL	Conc.	Date	11/12/18	11/12/18	11/12/18	11/12/18	10/16/18	11/13/18	11/13/18
	Ingestion	Inhalation	Ingestion	Inhalation	Class II		Level	Depth (ft)	1-3	3-5	1-3	3-5	1-3	1-3	3-5
Acenaphthene	4,700	NC	120,000	NC	2,900	*	0.09		< 0.041	< 0.042	< 0.039	< 0.040	< 0.039	< 0.062	< 0.043
Acenaphthylene	2,300	NC	61,000	NC	420	*	0.03		< 0.041	< 0.042	< 0.039	< 0.040	< 0.039	< 0.062	< 0.043
Anthracene	23,000	NC	610,000	NC	59,000	*	0.25		< 0.041	< 0.042	< 0.039	< 0.040	< 0.039	< 0.062	< 0.043
Benz(a)anthracene	0.9	NC	170	NC	8.0	*	1.1		< 0.041	< 0.042	< 0.039	< 0.040	< 0.039	0.27	< 0.043
Benzo(a)pyrene	0.09	NC	17	NC	82	*	1.3		< 0.041	< 0.042	< 0.039	< 0.040	< 0.039	0.26	< 0.043
Benzo(b)fluoranthene	0.9	NC	170	NC	25	*	1.5		< 0.041	< 0.042	< 0.039	< 0.040	< 0.039	0.31	< 0.043
Benzo(g,h,i)perylene	2,300	NC	61,000	NC	130,000	SS	0.68		< 0.041	< 0.042	< 0.039	< 0.040	< 0.039	0.18	< 0.043
Benzo(k)fluoranthene	9.0	NC	1,700	NC	250	*	0.99		< 0.041	< 0.042	< 0.039	< 0.040	< 0.039	0.18	< 0.043
Chrysene	88	NC	17,000	NC	800	*	1.2		< 0.041	< 0.042	< 0.039	< 0.040	< 0.039	0.31	< 0.043
Dibenzo(a,h)anthracene	0.09	NC	17	NC	7.6	*	0.2		< 0.041	< 0.042	< 0.039	< 0.040	< 0.039	0.11	< 0.043
Fluoranthene	3,100	NC	82,000	NC	21,000	*	2.7		< 0.041	< 0.042	< 0.039	< 0.040	0.054	0.5	< 0.043
Fluorene	3,100	NC	82,000	NC	2,800	*	0.1		< 0.041	< 0.042	< 0.039	< 0.040	< 0.039	< 0.062	< 0.043
Indeno(1,2,3-c,d)pyrene	0.9	NC	170	NC	69	*	0.86		< 0.041	< 0.042	< 0.039	< 0.040	< 0.039	0.18	< 0.043
Naphthalene	1,600	170	4,100	1.8	18	*	0.04		< 0.041	< 0.042	< 0.039	< 0.040	< 0.039	< 0.062	< 0.043
Phenanthrene	2,300	NC	61,000	NC	1,000	*	1.3		< 0.041	< 0.042	< 0.039	< 0.040	< 0.039	0.21	< 0.043
Pyrene	2,300	NC	61,000	NC	21,000	*	1.9		< 0.041	< 0.042	< 0.039	< 0.040	0.05	0.45	< 0.043

NOTES:

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- Samples were analyzed utilizing EPA Method SW-8270C(3550B).
- G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
- Bold values** = Concentration exceeds soil ing. and/or inh. exposure route for residential Tier 1 SROs **and** Chicago background concentration level, if applicable.
- = Concentration exceeds soil ing. and/or inh. exposure route for construction worker Tier 1 SROs.
- = Concentration exceeds soil component of the groundwater ing. exposure route for Class I and/or Class II Tier 1 SROs.
- \* = The ADL is less than or equal to the specified remediation objective.
- SS = Site-specific based upon wet weight of soil.

Table IV

Soil Analytical Results - PNAs

Analyte	IEPA SROs						Bkgd.	Sample	B-115B (1-3)	B-115B (3-5)	B-116B (1-3)	B-116B (3-5)	B-117B (1-3)	B-117B (3-5)	B-118B (1-3)
	Residential		Construction Worker		G.W. Ing.	ADL	Conc.	Date	11/13/18	11/13/18	11/12/18	11/12/18	11/13/18	11/13/18	11/13/18
	Ingestion	Inhalation	Ingestion	Inhalation	Class II		Level	Depth (ft)	1-3	3-5	1-3	3-5	1-3	3-5	1-3
Acenaphthene	4,700	NC	120,000	NC	2,900	*	0.09		< 0.039	< 0.040	< 0.039	< 0.042	< 0.040	< 0.038	< 0.039
Acenaphthylene	2,300	NC	61,000	NC	420	*	0.03		< 0.039	< 0.040	< 0.039	< 0.042	< 0.040	< 0.038	< 0.039
Anthracene	23,000	NC	610,000	NC	59,000	*	0.25		< 0.039	< 0.040	< 0.039	< 0.042	< 0.040	< 0.038	< 0.039
Benz(a)anthracene	0.9	NC	170	NC	8.0	*	1.1		0.13	< 0.040	< 0.039	< 0.042	< 0.040	< 0.038	0.11
Benzo(a)pyrene	0.09	NC	17	NC	82	*	1.3		0.15	< 0.040	< 0.039	< 0.042	< 0.040	< 0.038	0.087
Benzo(b)fluoranthene	0.9	NC	170	NC	25	*	1.5		0.15	< 0.040	< 0.039	< 0.042	< 0.040	< 0.038	0.096
Benzo(g,h,i)perylene	2,300	NC	61,000	NC	130,000	SS	0.68		0.12	< 0.040	< 0.039	< 0.042	< 0.040	< 0.038	0.066
Benzo(k)fluoranthene	9.0	NC	1,700	NC	250	*	0.99		0.12	< 0.040	< 0.039	< 0.042	< 0.040	< 0.038	0.074
Chrysene	88	NC	17,000	NC	800	*	1.2		0.15	< 0.040	< 0.039	< 0.042	< 0.040	< 0.038	0.12
Dibenzo(a,h)anthracene	0.09	NC	17	NC	7.6	*	0.2		0.06	< 0.040	< 0.039	< 0.042	< 0.040	< 0.038	< 0.039
Fluoranthene	3,100	NC	82,000	NC	21,000	*	2.7		0.2	< 0.040	< 0.039	< 0.042	< 0.040	< 0.038	0.27
Fluorene	3,100	NC	82,000	NC	2,800	*	0.1		< 0.039	< 0.040	< 0.039	< 0.042	< 0.040	< 0.038	< 0.039
Indeno(1,2,3-c,d)pyrene	0.9	NC	170	NC	69	*	0.86		0.1	< 0.040	< 0.039	< 0.042	< 0.040	< 0.038	0.057
Naphthalene	1,600	170	4,100	1.8	18	*	0.04		< 0.039	< 0.040	< 0.039	< 0.042	< 0.040	< 0.038	< 0.039
Phenanthrene	2,300	NC	61,000	NC	1,000	*	1.3		0.089	< 0.040	< 0.039	< 0.042	< 0.040	< 0.038	0.19
Pyrene	2,300	NC	61,000	NC	21,000	*	1.9		0.22	< 0.040	< 0.039	< 0.042	< 0.040	< 0.038	0.23

NOTES:

- All results expressed in milligrams per kilogram (mg/kg).
- NA = Not analyzed for this constituent.
- NC = No toxicity criteria for this exposure route.
- NE = No established IEPA SRO for this analyte.
- Samples were analyzed utilizing EPA Method SW-8270C(3550B).
- G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
- Bold values** = Concentration exceeds soil ing. and/or inh. exposure route for residential Tier 1 SROs **and** Chicago background concentration level, if applicable.
- = Concentration exceeds soil ing. and/or inh. exposure route for construction worker Tier 1 SROs.
- = Concentration exceeds soil component of the groundwater ing. exposure route for Class I and/or Class II Tier 1 SROs.
- \* = The ADL is less than or equal to the specified remediation objective.
- SS = Site-specific based upon wet weight of soil.

Table IV

Soil Analytical Results - PNAs

Analyte	IEPA SROs						Bkgd.	Sample	B-118B (3-5)	B-205B (1-3)	B-206B (1-3)	B-206B (3-5)	B-207B (1-3)	B-207B (3-5)	B-208B (1-3)
	Residential		Construction Worker		G.W. Ing.	ADL	Conc.	Date	11/13/18	11/29/18	11/29/18	11/29/18	11/29/18	11/29/18	11/29/18
	Ingestion	Inhalation	Ingestion	Inhalation	Class II		Level	Depth (ft)	3-5	1-3	1-3	3-5	1-3	3-5	1-3
Acenaphthene	4,700	NC	120,000	NC	2,900	*	0.09		< 0.041	NA	NA	NA	< 0.038	NA	< 0.040
Acenaphthylene	2,300	NC	61,000	NC	420	*	0.03		< 0.041	NA	NA	NA	< 0.038	NA	< 0.040
Anthracene	23,000	NC	610,000	NC	59,000	*	0.25		< 0.041	NA	NA	NA	< 0.038	NA	< 0.040
Benz(a)anthracene	0.9	NC	170	NC	8.0	*	1.1		< 0.041	NA	NA	NA	< 0.038	NA	0.079
Benzo(a)pyrene	0.09	NC	17	NC	82	*	1.3		< 0.041	NA	NA	NA	< 0.038	NA	0.083
Benzo(b)fluoranthene	0.9	NC	170	NC	25	*	1.5		< 0.041	NA	NA	NA	< 0.038	NA	< 0.040
Benzo(g,h,i)perylene	2,300	NC	61,000	NC	130,000	SS	0.68		< 0.041	NA	NA	NA	< 0.038	NA	0.077
Benzo(k)fluoranthene	9.0	NC	1,700	NC	250	*	0.99		< 0.041	NA	NA	NA	< 0.038	NA	0.071
Chrysene	88	NC	17,000	NC	800	*	1.2		< 0.041	NA	NA	NA	< 0.038	NA	0.086
Dibenzo(a,h)anthracene	0.09	NC	17	NC	7.6	*	0.2		< 0.041	NA	NA	NA	< 0.038	NA	< 0.040
Fluoranthene	3,100	NC	82,000	NC	21,000	*	2.7		< 0.041	NA	NA	NA	0.061	NA	0.11
Fluorene	3,100	NC	82,000	NC	2,800	*	0.1		< 0.041	NA	NA	NA	< 0.038	NA	< 0.040
Indeno(1,2,3-c,d)pyrene	0.9	NC	170	NC	69	*	0.86		< 0.041	NA	NA	NA	< 0.038	NA	0.058
Naphthalene	1,600	170	4,100	1.8	18	*	0.04		< 0.041	NA	NA	NA	< 0.038	NA	< 0.040
Phenanthrene	2,300	NC	61,000	NC	1,000	*	1.3		< 0.041	NA	NA	NA	< 0.038	NA	< 0.040
Pyrene	2,300	NC	61,000	NC	21,000	*	1.9		< 0.041	NA	NA	NA	0.05	NA	0.1

NOTES:

1. All results expressed in milligrams per kilogram (mg/kg).
2. NA = Not analyzed for this constituent.
3. NC = No toxicity criteria for this exposure route.
4. NE = No established IEPA SRO for this analyte.
5. Samples were analyzed utilizing EPA Method SW-8270C(3550B).
6. G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
7. **Bold values** = Concentration exceeds soil ing. and/or inh. exposure route for residential Tier 1 SROs **and** Chicago background concentration level, if applicable.
8. **○** = Concentration exceeds soil ing. and/or inh. exposure route for construction worker Tier 1 SROs.
9. **■** = Concentration exceeds soil component of the groundwater ing. exposure route for Class I and/or Class II Tier 1 SROs.
10. \* = The ADL is less than or equal to the specified remediation objective.
11. SS = Site-specific based upon wet weight of soil.

Table IV

Soil Analytical Results - PNAs

Analyte	IEPA SROs						Bkgd.	Sample	B-208B (3-5)	B-209B (1-3)	B-209B (3-5)	B-210B (1-3)	B-211B (1-3)	B-211B (3-5)	B-212B (1-3)
	Residential		Construction Worker		G.W. Ing.	ADL	Conc.	Date	11/29/18	11/29/18	11/29/18	11/29/18	11/29/18	11/29/18	11/29/18
	Ingestion	Inhalation	Ingestion	Inhalation	Class II		Level	Depth (ft)	3-5	1-3	3-5	1-3	1-3	3-5	1-3
Acenaphthene	4,700	NC	120,000	NC	2,900	*	0.09		NA	NA	NA	NA	< 0.044	NA	NA
Acenaphthylene	2,300	NC	61,000	NC	420	*	0.03		NA	NA	NA	NA	< 0.044	NA	NA
Anthracene	23,000	NC	610,000	NC	59,000	*	0.25		NA	NA	NA	NA	< 0.044	NA	NA
Benz(a)anthracene	0.9	NC	170	NC	8.0	*	1.1		NA	NA	NA	NA	< 0.044	NA	NA
Benzo(a)pyrene	0.09	NC	17	NC	82	*	1.3		NA	NA	NA	NA	< 0.044	NA	NA
Benzo(b)fluoranthene	0.9	NC	170	NC	25	*	1.5		NA	NA	NA	NA	< 0.044	NA	NA
Benzo(g,h,i)perylene	2,300	NC	61,000	NC	130,000	SS	0.68		NA	NA	NA	NA	< 0.044	NA	NA
Benzo(k)fluoranthene	9.0	NC	1,700	NC	250	*	0.99		NA	NA	NA	NA	< 0.044	NA	NA
Chrysene	88	NC	17,000	NC	800	*	1.2		NA	NA	NA	NA	< 0.044	NA	NA
Dibenzo(a,h)anthracene	0.09	NC	17	NC	7.6	*	0.2		NA	NA	NA	NA	< 0.044	NA	NA
Fluoranthene	3,100	NC	82,000	NC	21,000	*	2.7		NA	NA	NA	NA	< 0.044	NA	NA
Fluorene	3,100	NC	82,000	NC	2,800	*	0.1		NA	NA	NA	NA	< 0.044	NA	NA
Indeno(1,2,3-c,d)pyrene	0.9	NC	170	NC	69	*	0.86		NA	NA	NA	NA	< 0.044	NA	NA
Naphthalene	1,600	170	4,100	1.8	18	*	0.04		NA	NA	NA	NA	< 0.044	NA	NA
Phenanthrene	2,300	NC	61,000	NC	1,000	*	1.3		NA	NA	NA	NA	< 0.044	NA	NA
Pyrene	2,300	NC	61,000	NC	21,000	*	1.9		NA	NA	NA	NA	< 0.044	NA	NA

NOTES:

- All results expressed in milligrams per kilogram (mg/kg).
- NA = Not analyzed for this constituent.
- NC = No toxicity criteria for this exposure route.
- NE = No established IEPA SRO for this analyte.
- Samples were analyzed utilizing EPA Method SW-8270C(3550B).
- G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
- Bold values** = Concentration exceeds soil ing. and/or inh. exposure route for residential Tier 1 SROs **and** Chicago background concentration level, if applicable.
- = Concentration exceeds soil ing. and/or inh. exposure route for construction worker Tier 1 SROs.
- = Concentration exceeds soil component of the groundwater ing. exposure route for Class I and/or Class II Tier 1 SROs.
- \* = The ADL is less than or equal to the specified remediation objective.
- SS = Site-specific based upon wet weight of soil.

Table IV

## Soil Analytical Results - PNAs

Analyte	IEPA SROs						Bkgd. Conc. Level	Sample Date Depth (ft)	B-213B (1-3) 11/29/18 1-3	B-214B (1-3) 11/29/18 1-3	B-214 (3-5) 11/29/18 3-5	SB-1 03/09/99 1-3	SB-3 03/09/99 1.5-4	SB-4 03/09/99 1-3	SB-5 03/09/99 3-5
	Residential		Construction Worker		G.W. Ing.	ADL									
	Ingestion	Inhalation	Ingestion	Inhalation	Class II										
Acenaphthene	4,700	NC	120,000	NC	2,900	*	0.09	< 0.040	0.062	NA	<0.050	<0.050	<0.050	<0.050	
Acenaphthylene	2,300	NC	61,000	NC	420	*	0.03	< 0.040	< 0.038	NA	<0.050	<0.050	<0.050	<0.050	
Anthracene	23,000	NC	610,000	NC	59,000	*	0.25	< 0.040	0.19	NA	<0.083	<0.083	0.002	<0.083	
Benz(a)anthracene	0.9	NC	170	NC	8.0	*	1.1	0.052	0.49	NA	<0.050	<0.050	0.0058	<0.050	
Benzo(a)pyrene	0.09	NC	17	NC	82	*	1.3	0.045	0.64	NA	<0.050	<0.050	5.4	<0.050	
Benzo(b)fluoranthene	0.9	NC	170	NC	25	*	1.5	0.043	0.41	NA	<0.050	<0.050	0.0071	<0.050	
Benzo(g,h,i)perylene	2,300	NC	61,000	NC	130,000	SS	0.68	< 0.040	1.1	NA	<0.050	<0.050	0.0035	<0.050	
Benzo(k)fluoranthene	9.0	NC	1,700	NC	250	*	0.99	0.045	0.44	NA	<0.050	<0.050	0.0023	<0.050	
Chrysene	88	NC	17,000	NC	800	*	1.2	0.052	0.54	NA	<0.050	<0.050	0.0069	<0.050	
Dibenzo(a,h)anthracene	0.09	NC	17	NC	7.6	*	0.2	< 0.040	0.34	<0.039	<0.050	<0.050	0.00048	<0.050	
Fluoranthene	3,100	NC	82,000	NC	21,000	*	2.7	0.099	1.1	NA	<0.050	<0.050	0.017	<0.050	
Fluorene	3,100	NC	82,000	NC	2,800	*	0.1	< 0.040	0.064	NA	<0.033	<0.033	<0.033	<0.033	
Indeno(1,2,3-c,d)pyrene	0.9	NC	170	NC	69	*	0.86	< 0.040	0.43	NA	<0.050	<0.050	0.0011	<0.050	
Naphthalene	1,600	170	4,100	1.8	18	*	0.04	< 0.040	< 0.038	NA	<0.067	<0.067	<0.067	<0.067	
Phenanthrene	2,300	NC	61,000	NC	1,000	*	1.3	< 0.040	0.62	NA	<0.033	<0.033	0.0076	<0.033	
Pyrene	2,300	NC	61,000	NC	21,000	*	1.9	0.082	0.94	NA	<0.050	<0.050	0.013	<0.050	

## NOTES:

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- Samples were analyzed utilizing EPA Method SW-8270C(3550B).
- G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
- Bold values** = Concentration exceeds soil ing. and/or inh. exposure route for residential Tier 1 SROs and Chicago background concentration level, if applicable.
- = Concentration exceeds soil ing. and/or inh. exposure route for construction worker Tier 1 SROs.
- = Concentration exceeds soil component of the groundwater ing. exposure route for Class I and/or Class II Tier 1 SROs.
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Table IV

## Soil Analytical Results - PNAs

Analyte	IEPA SROs						Bkgd.	Sample	SB-6	SB-8	SB-9	SB-10	SB-11	SB-12
	Residential		Construction Worker		G.W. Ing.	ADL	Conc.	Date	03/09/99	03/09/99	03/09/99	03/09/99	03/09/99	03/09/99
	Ingestion	Inhalation	Ingestion	Inhalation	Class II		Level	Depth (ft)	1-3	5-7	1-3	5-7	5-7	3-5
Acenaphthene	4,700	NC	120,000	NC	2,900	*	0.09		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	2,300	NC	61,000	NC	420	*	0.03		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	23,000	NC	610,000	NC	59,000	*	0.25		<0.083	<0.083	<0.083	<0.083	<0.083	<0.083
Benzo(a)anthracene	0.9	NC	170	NC	8.0	*	1.1		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(a)pyrene	0.09	NC	17	NC	82	*	1.3		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(b)fluoranthene	0.9	NC	170	NC	25	*	1.5		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(g,h,i)perylene	2,300	NC	61,000	NC	130,000	SS	0.68		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(k)fluoranthene	9.0	NC	1,700	NC	250	*	0.99		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chrysene	88	NC	17,000	NC	800	*	1.2		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibenzo(a,h)anthracene	0.09	NC	17	NC	7.6	*	0.2		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fluoranthene	3,100	NC	82,000	NC	21,000	*	2.7		0.00014	<0.050	<0.050	<0.050	<0.050	<0.050
Fluorene	3,100	NC	82,000	NC	2,800	*	0.1		<0.033	<0.033	<0.033	<0.033	<0.033	<0.033
Indeno(1,2,3-c,d)pyrene	0.9	NC	170	NC	69	*	0.86		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Naphthalene	1,600	170	4,100	1.8	18	*	0.04		<0.067	<0.067	<0.067	<0.067	<0.067	<0.067
Phenanthrene	2,300	NC	61,000	NC	1,000	*	1.3		<0.033	<0.033	<0.033	<0.033	<0.033	<0.033
Pyrene	2,300	NC	61,000	NC	21,000	*	1.9		0.00013	<0.050	<0.050	<0.050	<0.050	<0.050

## NOTES:

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- NE = No established IEPA SRO for this analyte.
- Samples were analyzed utilizing EPA Method SW-8270C(3550B).
- G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
- Bold values** = Concentration exceeds soil ing. and/or inh. exposure route for residential Tier 1 SROs and Chicago background concentration level, if applicable.
- = Concentration exceeds soil ing. and/or inh. exposure route for construction worker Tier 1 SROs.
- = Concentration exceeds soil component of the groundwater ing. exposure route for Class I and/or Class II Tier 1 SROs.
- \* = The ADL is less than or equal to the specified remediation objective.
- SS = Site-specific based upon wet weight of soil.

Table V

Soil Analytical Results - Pesticides & PCBs

Analyte	IEPA SROs						Sample Date	B-104B (1-3) 11/12/18 1-3	B-105B (1-3) 11/12/18 1-3	B-105B (3-5) 11/12/18 3-5	B-106B (1-3) 10/16/18 1-3	B-107B (1-3) 10/16/18 1-3	
	Residential		Construction Worker		G.W. Ing.	ADL							
	Ingestion	Inhalation	Ingestion	Inhalation	Class II								
Pesticides	4,4'-DDD	3.0	NC	520	NC	80	*	NA	< 0.0019	< 0.0019	< 0.0019	< 0.0022	
	4,4'-DDE	2.0	NC	370	NC	270	*	NA	< 0.0019	< 0.0019	< 0.0019	< 0.0022	
	4,4'-DDT	2.0	NC	100	2,100	160	*	NA	< 0.0019	< 0.0019	< 0.0019	< 0.0022	
	Aldrin	0.04	3.0	6.1	9.3	2.5	0.94	NA	< 0.0019	< 0.0019	< 0.0019	< 0.0022	
	alpha-BHC	0.1	0.8	20	2.1	0.003	0.0074	NA	< 0.0019	< 0.0019	< 0.0019	< 0.0022	
	alpha-Chlordane	NE	NE	NE	NE	NE	NE	NA	< 0.0019	< 0.0019	< 0.0019	< 0.0022	
	beta-BHC	NE	NE	NE	NE	NE	NE	NA	< 0.0019	< 0.0019	< 0.0019	< 0.0022	
	Chlordane	1.8	72	100	22	48	*	NA	< 0.019	< 0.019	< 0.019	< 0.022	
	delta-BHC	NE	NE	NE	NE	NE	NE	NA	< 0.0019	< 0.0019	< 0.0019	< 0.0022	
	Dieldrin	0.04	1.0	7.8	3.1	0.02	0.603	NA	< 0.0019	< 0.0019	< 0.0019	< 0.0022	
	Endosulfan I	NE	NE	NE	NE	NE	NE	NA	< 0.0019	< 0.0019	< 0.0019	< 0.0022	
	Endosulfan II	NE	NE	NE	NE	NE	NE	NA	< 0.0019	< 0.0019	< 0.0019	< 0.0022	
	Endosulfan Sulfate	NE	NE	NE	NE	NE	NE	NA	< 0.0019	< 0.0019	< 0.0019	< 0.0022	
	Endrin	23	NC	61	NC	5.0	*	NA	< 0.0019	< 0.0019	< 0.0019	< 0.0022	
	Endrin Aldehyde	NE	NE	NE	NE	NE	NE	NA	< 0.0019	< 0.0019	< 0.0019	< 0.0022	
	Endrin Ketone	NE	NE	NE	NE	NE	NE	NA	< 0.0019	< 0.0019	< 0.0019	< 0.0022	
	gamma-BHC (Lindane)	0.5	NC	96	NC	0.047	*	NA	< 0.0019	< 0.0019	< 0.0019	< 0.0022	
	gamma-Chlordane	NE	NE	NE	NE	NE	NE	NA	< 0.0019	< 0.0019	< 0.0019	< 0.0022	
	Heptachlor	0.1	0.1	28	16	110	0.871	NA	< 0.0019	< 0.0019	< 0.0019	< 0.0022	
	Heptachlor Epoxide	0.07	5.0	2.7	13	3.3	1.005	NA	< 0.0019	< 0.0019	< 0.0019	< 0.0022	
	Methoxychlor	390	NC	1000	NC	780	*	NA	< 0.0019	< 0.0019	< 0.0019	< 0.0022	
	Toxaphene	0.6	89	110	240	150	*	NA	< 0.039	< 0.039	< 0.040	< 0.045	
	PCBs	PCB-1016	1.0	NC	1.0	NC	NC	*	<0.10	<0.094	<0.094	< 0.097	< 0.11
		PCB-1221	1.0	NC	1.0	NC	NC	*	<0.10	<0.094	<0.094	< 0.097	< 0.11
		PCB-1232	1.0	NC	1.0	NC	NC	*	<0.10	<0.094	<0.094	< 0.097	< 0.11
		PCB-1242	1.0	NC	1.0	NC	NC	*	<0.10	<0.094	<0.094	< 0.097	< 0.11
		PCB-1248	1.0	NC	1.0	NC	NC	*	<0.10	<0.094	<0.094	< 0.097	< 0.11
		PCB-1254	1.0	NC	1.0	NC	NC	*	<0.10	<0.094	<0.094	< 0.097	< 0.11
PCB-1260		1.0	NC	1.0	NC	NC	*	<0.10	<0.094	<0.094	< 0.097	< 0.11	

NOTES:

1. Results expressed in milligrams per kilogram (mg/kg).
2. NA = Not analyzed for this constituent.
3. NC = No toxicity criteria for this exposure route.
4. NE = No established IEPA SRO for this analyte.
5. Samples were analyzed by EPA Methods 8081/8082.
6. G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
7. **Bold values** = Concentration exceeds soil ing. and/or inh. exposure route for residential Tier 1 SROs.
8. **○** = Concentration exceeds soil ing. and/or inh. exposure route for construction worker Tier 1 SROs.
9. **■** = Concentration exceeds soil component of the groundwater ing. exposure route for Class II Tier 1 SROs.
10. \* = The ADL is less than or equal to the specified remediation objective.
11. SS = Site-specific based upon wet weight of soil.

Table V

Soil Analytical Results - Pesticides & PCBs

Analyte	IEPA SROs						Sample	B-109B (1-3)	B-109B (3-5)	B-110B (1-3)	B-110B (3-5)	B-111B (1-3)	B-114B (1-3)	B-114B (3-5)
	Residential		Construction Worker		G.W. Ing.	ADL	Date	11/12/18	11/12/18	11/12/18	11/12/18	10/16/18	11/13/18	11/13/18
	Ingestion	Inhalation	Ingestion	Inhalation	Class II		Depth (ft)	1-3	3-5	1-3	3-5	1-3	1-3	3-5
Pesticides	4,4'-DDD	3.0	NC	520	NC	80	*	NA	NA	NA	NA	< 0.0019	< 0.0030	< 0.0021
	4,4'-DDE	2.0	NC	370	NC	270	*	NA	NA	NA	NA	< 0.0019	< 0.0030	< 0.0021
	4,4'-DDT	2.0	NC	100	2,100	160	*	NA	NA	NA	NA	< 0.0019	< 0.0030	< 0.0021
	Aldrin	0.04	3.0	6.1	9.3	2.5	0.94	NA	NA	NA	NA	< 0.0019	< 0.0030	< 0.0021
	alpha-BHC	0.1	0.8	20	2.1	0.003	0.0074	NA	NA	NA	NA	< 0.0019	< 0.0030	< 0.0021
	alpha-Chlordane	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	< 0.0019	< 0.0030	< 0.0021
	beta-BHC	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	< 0.0019	< 0.0030	< 0.0021
	Chlordane	1.8	72	100	22	48	*	NA	NA	NA	NA	< 0.019	< 0.030	< 0.021
	delta-BHC	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	< 0.0019	< 0.0030	< 0.0021
	Dieldrin	0.04	1.0	7.8	3.1	0.02	0.603	NA	NA	NA	NA	< 0.0019	< 0.0030	< 0.0021
	Endosulfan I	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	< 0.0019	< 0.0030	< 0.0021
	Endosulfan II	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	< 0.0019	< 0.0030	< 0.0021
	Endosulfan Sulfate	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	< 0.0019	< 0.0030	< 0.0021
	Endrin	23	NC	61	NC	5.0	*	NA	NA	NA	NA	< 0.0019	< 0.0030	< 0.0021
	Endrin Aldehyde	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	< 0.0019	< 0.0030	< 0.0021
	Endrin Ketone	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	< 0.0019	< 0.0030	< 0.0021
	gamma-BHC (Lindane)	0.5	NC	96	NC	0.047	*	NA	NA	NA	NA	< 0.0019	< 0.0030	< 0.0021
	gamma-Chlordane	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	< 0.0019	< 0.0030	< 0.0021
	Heptachlor	0.1	0.1	28	16	110	0.871	NA	NA	NA	NA	< 0.0019	< 0.0030	< 0.0021
	Heptachlor Epoxide	0.07	5.0	2.7	13	3.3	1.005	NA	NA	NA	NA	< 0.0019	< 0.0030	< 0.0021
Methoxychlor	390	NC	1000	NC	780	*	NA	NA	NA	NA	< 0.0019	< 0.0030	< 0.0021	
Toxaphene	0.6	89	110	240	150	*	NA	NA	NA	NA	< 0.039	< 0.062	< 0.043	
PCBs	PCB-1016	1.0	NC	1.0	NC	NC	*	<0.099	<0.10	<0.093	<0.099	< 0.095	NA	NA
	PCB-1221	1.0	NC	1.0	NC	NC	*	<0.099	<0.10	<0.093	<0.099	< 0.095	NA	NA
	PCB-1232	1.0	NC	1.0	NC	NC	*	<0.099	<0.10	<0.093	<0.099	< 0.095	NA	NA
	PCB-1242	1.0	NC	1.0	NC	NC	*	<0.099	<0.10	<0.093	<0.099	< 0.095	NA	NA
	PCB-1248	1.0	NC	1.0	NC	NC	*	<0.099	<0.10	<0.093	<0.099	< 0.095	NA	NA
	PCB-1254	1.0	NC	1.0	NC	NC	*	<0.099	<0.10	<0.093	<0.099	< 0.095	NA	NA
	PCB-1260	1.0	NC	1.0	NC	NC	*	<0.099	<0.10	<0.093	<0.099	< 0.095	NA	NA

NOTES:

1. Results expressed in milligrams per kilogram (mg/kg).
2. NA = Not analyzed for this constituent.
3. NC = No toxicity criteria for this exposure route.
4. NE = No established IEPA SRO for this analyte.
5. Samples were analyzed by EPA Methods 8081/8082.
6. G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
7. **Bold values** = Concentration exceeds soil ing. and/or inh. exposure route for residential Tier 1 SROs.
8. **○** = Concentration exceeds soil ing. and/or inh. exposure route for construction worker Tier 1 SROs.
9. **■** = Concentration exceeds soil component of the groundwater ing. exposure route for Class II Tier 1 SROs.
10. \* = The ADL is less than or equal to the specified remediation objective.
11. SS = Site-specific based upon wet weight of soil.

Table V

Soil Analytical Results - Pesticides & PCBs

Analyte	IEPA SROs						Sample Date	B-115B (1-3) 11/13/18	B-115B (3-5) 11/13/18	B-116B (1-3) 11/12/18	B-116B (3-5) 11/12/18	B-117B (1-3) 11/13/18	B-117B (3-5) 11/13/18	B-118B (1-3) 11/13/18	B-118B (3-5) 11/13/18
	Residential		Construction Worker		G.W. Ing.	ADL									
	Ingestion	Inhalation	Ingestion	Inhalation	Class II										
							Depth (ft)	1-3	3-5	1-3	3-5	1-3	3-5	1-3	3-5
Pesticides	4,4'-DDD	3.0	NC	520	NC	80	*	NA	NA	< 0.0019	< 0.0020	NA	NA	NA	NA
	4,4'-DDE	2.0	NC	370	NC	270	*	NA	NA	< 0.0019	< 0.0020	NA	NA	NA	NA
	4,4'-DDT	2.0	NC	100	2,100	160	*	NA	NA	< 0.0019	< 0.0020	NA	NA	NA	NA
	Aldrin	0.04	3.0	6.1	9.3	2.5	0.94	NA	NA	< 0.0019	< 0.0020	NA	NA	NA	NA
	alpha-BHC	0.1	0.8	20	2.1	0.003	0.0074	NA	NA	< 0.0019	< 0.0020	NA	NA	NA	NA
	alpha-Chlordane	NE	NE	NE	NE	NE	NE	NA	NA	< 0.0019	< 0.0020	NA	NA	NA	NA
	beta-BHC	NE	NE	NE	NE	NE	NE	NA	NA	< 0.0019	< 0.0020	NA	NA	NA	NA
	Chlordane	1.8	72	100	22	48	*	NA	NA	< 0.019	< 0.020	NA	NA	NA	NA
	delta-BHC	NE	NE	NE	NE	NE	NE	NA	NA	< 0.0019	< 0.0020	NA	NA	NA	NA
	Dieldrin	0.04	1.0	7.8	3.1	0.02	0.603	NA	NA	< 0.0019	< 0.0020	NA	NA	NA	NA
	Endosulfan I	NE	NE	NE	NE	NE	NE	NA	NA	< 0.0019	< 0.0020	NA	NA	NA	NA
	Endosulfan II	NE	NE	NE	NE	NE	NE	NA	NA	< 0.0019	< 0.0020	NA	NA	NA	NA
	Endosulfan Sulfate	NE	NE	NE	NE	NE	NE	NA	NA	< 0.0019	< 0.0020	NA	NA	NA	NA
	Endrin	23	NC	61	NC	5.0	*	NA	NA	< 0.0019	< 0.0020	NA	NA	NA	NA
	Endrin Aldehyde	NE	NE	NE	NE	NE	NE	NA	NA	< 0.0019	< 0.0020	NA	NA	NA	NA
	Endrin Ketone	NE	NE	NE	NE	NE	NE	NA	NA	< 0.0019	< 0.0020	NA	NA	NA	NA
	gamma-BHC (Lindane)	0.5	NC	96	NC	0.047	*	NA	NA	< 0.0019	< 0.0020	NA	NA	NA	NA
	gamma-Chlordane	NE	NE	NE	NE	NE	NE	NA	NA	< 0.0019	< 0.0020	NA	NA	NA	NA
	Heptachlor	0.1	0.1	28	16	110	0.871	NA	NA	< 0.0019	< 0.0020	NA	NA	NA	NA
	Heptachlor Epoxide	0.07	5.0	2.7	13	3.3	1.005	NA	NA	< 0.0019	< 0.0020	NA	NA	NA	NA
	Methoxychlor	390	NC	1000	NC	780	*	NA	NA	< 0.0019	< 0.0020	NA	NA	NA	NA
	Toxaphene	0.6	89	110	240	150	*	NA	NA	< 0.038	< 0.042	NA	NA	NA	NA
	PCBs	PCB-1016	1.0	NC	1.0	NC	NC	*	NA	NA	<0.093	<0.10	NA	NA	NA
PCB-1221		1.0	NC	1.0	NC	NC	*	NA	NA	<0.093	<0.10	NA	NA	NA	NA
PCB-1232		1.0	NC	1.0	NC	NC	*	NA	NA	<0.093	<0.10	NA	NA	NA	NA
PCB-1242		1.0	NC	1.0	NC	NC	*	NA	NA	<0.093	<0.10	NA	NA	NA	NA
PCB-1248		1.0	NC	1.0	NC	NC	*	NA	NA	<0.093	<0.10	NA	NA	NA	NA
PCB-1254		1.0	NC	1.0	NC	NC	*	NA	NA	<0.093	<0.10	NA	NA	NA	NA
PCB-1260		1.0	NC	1.0	NC	NC	*	NA	NA	<0.093	<0.10	NA	NA	NA	NA

NOTES:

1. Results expressed in milligrams per kilogram (mg/kg).
2. NA = Not analyzed for this constituent.
3. NC = No toxicity criteria for this exposure route.
4. NE = No established IEPA SRO for this analyte.
5. Samples were analyzed by EPA Methods 8081/8082.
6. G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
7. **Bold values** = Concentration exceeds soil ing. and/or inh. exposure route for residential Tier 1 SROs.
8. **○** = Concentration exceeds soil ing. and/or inh. exposure route for construction worker Tier 1 SROs.
9. **■** = Concentration exceeds soil component of the groundwater ing. exposure route for Class II Tier 1 SROs.
10. \* = The ADL is less than or equal to the specified remediation objective.
11. SS = Site-specific based upon wet weight of soil.

Table V

Soil Analytical Results - Pesticides & PCBs

Analyte	IEPA SROs						Sample Date	Depth (ft)	B-205B (1-3)	B-206B (1-3)	B-206B (3-5)	B-207B (1-3)	B-207B (3-5)	B-208B (1-3)	B-208B (3-5)	B-209B (1-3)	B-209B (3-5)	
	Residential		Construction Worker		G.W. Ing.	ADL			11/29/18	11/29/18	11/29/18	11/29/18	11/29/18	11/29/18	11/29/18	11/29/18	11/29/18	11/29/18
	Ingestion	Inhalation	Ingestion	Inhalation	Class II				1-3	1-3	3-5	1-3	3-5	1-3	3-5	1-3	3-5	1-3
<b>4,4'-DDD</b>	3.0	NC	520	NC	80	*		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>4,4'-DDE</b>	2.0	NC	370	NC	270	*		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>4,4'-DDT</b>	2.0	NC	100	2,100	160	*		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Aldrin</b>	0.04	3.0	6.1	9.3	2.5	0.94		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>alpha-BHC</b>	0.1	0.8	20	2.1	0.003	0.0074		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>alpha-Chlordane</b>	NE	NE	NE	NE	NE	NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>beta-BHC</b>	NE	NE	NE	NE	NE	NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Chlordane</b>	1.8	72	100	22	48	*		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>delta-BHC</b>	NE	NE	NE	NE	NE	NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Dieldrin</b>	0.04	1.0	7.8	3.1	0.02	0.603		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Endosulfan I</b>	NE	NE	NE	NE	NE	NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Endosulfan II</b>	NE	NE	NE	NE	NE	NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Endosulfan Sulfate</b>	NE	NE	NE	NE	NE	NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Endrin</b>	23	NC	61	NC	5.0	*		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Endrin Aldehyde</b>	NE	NE	NE	NE	NE	NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Endrin Ketone</b>	NE	NE	NE	NE	NE	NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>gamma-BHC (Lindane)</b>	0.5	NC	96	NC	0.047	*		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>gamma-Chlordane</b>	NE	NE	NE	NE	NE	NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Heptachlor</b>	0.1	0.1	28	16	110	0.871		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Heptachlor Epoxide</b>	0.07	5.0	2.7	13	3.3	1.005		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Methoxychlor</b>	390	NC	1000	NC	780	*		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Toxaphene</b>	0.6	89	110	240	150	*		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>PCB-1016</b>	1.0	NC	1.0	NC	NC	*		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>PCB-1221</b>	1.0	NC	1.0	NC	NC	*		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>PCB-1232</b>	1.0	NC	1.0	NC	NC	*		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>PCB-1242</b>	1.0	NC	1.0	NC	NC	*		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>PCB-1248</b>	1.0	NC	1.0	NC	NC	*		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>PCB-1254</b>	1.0	NC	1.0	NC	NC	*		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>PCB-1260</b>	1.0	NC	1.0	NC	NC	*		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

NOTES:

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- NE = No established IEPA SRO for this analyte.
- Samples were analyzed by EPA Methods 8081/8082.
- G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
- Bold values** = Concentration exceeds soil ing. and/or inh. exposure route for residential Tier 1 SROs.
- = Concentration exceeds soil ing. and/or inh. exposure route for construction worker Tier 1 SROs.
- = Concentration exceeds soil component of the groundwater ing. exposure route for Class II Tier 1 SROs.
- \* = The ADL is less than or equal to the specified remediation objective.
- SS = Site-specific based upon wet weight of soil.

Table V

Soil Analytical Results - Pesticides & PCBs

Analyte	IEPA SROs						Sample Date	B-210B (1-3) 11/29/18	B-211B (1-3) 11/29/18	B-211B (3-5) 11/29/18	B-212B (1-3) 11/29/18	B-213B (1-3) 11/29/18	B-214B (1-3) 11/29/18	B-214 (3-5) 11/29/18	SB-1 03/09/99	SB-3 03/09/99	
	Residential		Construction Worker		G.W. Ing.	ADL											
	Ingestion	Inhalation	Ingestion	Inhalation	Class II												
							Depth (ft)	1-3	1-3	3-5	1-3	1-3	1-3	3-5	1-3	1.5-4	
<b>Pesticides</b>	4,4'-DDD	3.0	NC	520	NC	80	*	NA	NA	NA	NA	NA	NA	NA	NA	<0.00133	NA
	4,4'-DDE	2.0	NC	370	NC	270	*	NA	NA	NA	NA	NA	NA	NA	NA	<0.002	NA
	4,4'-DDT	2.0	NC	100	2,100	160	*	NA	NA	NA	NA	NA	NA	NA	NA	<0.005	NA
	Aldrin	0.04	3.0	6.1	9.3	2.5	0.94	NA	NA	NA	NA	NA	NA	NA	NA	<0.001	NA
	alpha-BHC	0.1	0.8	20	2.1	0.003	0.0074	NA	NA	NA	NA	NA	NA	NA	NA	<0.00066	NA
	alpha-Chlordane	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	beta-BHC	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	<0.001	NA
	Chlordane	1.8	72	100	22	48	*	NA	NA	NA	NA	NA	NA	NA	NA	<0.00667	NA
	delta-BHC	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	<0.001	NA
	Dieldrin	0.04	1.0	7.8	3.1	0.02	0.603	NA	NA	NA	NA	NA	NA	NA	NA	<0.001	NA
	Endosulfan I	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	<0.001	NA
	Endosulfan II	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	<0.00166	NA
	Endosulfan Sulfate	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	<0.0033	NA
	Endrin	23	NC	61	NC	5.0	*	NA	NA	NA	NA	NA	NA	NA	NA	<0.0033	NA
	Endrin Aldehyde	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	<0.00167	NA
	Endrin Ketone	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	gamma-BHC (Lindane)	0.5	NC	96	NC	0.047	*	NA	NA	NA	NA	NA	NA	NA	NA	<0.001	NA
	gamma-Chlordane	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Heptachlor	0.1	0.1	28	16	110	0.871	NA	NA	NA	NA	NA	NA	NA	NA	<0.0013	NA
	Heptachlor Epoxide	0.07	5.0	2.7	13	3.3	1.005	NA	NA	NA	NA	NA	NA	NA	NA	<0.00033	NA
	Methoxychlor	390	NC	1000	NC	780	*	NA	NA	NA	NA	NA	NA	NA	NA	<0.005	NA
	Toxaphene	0.6	89	110	240	150	*	NA	NA	NA	NA	NA	NA	NA	NA	<0.0166	NA
<b>PCBs</b>	PCB-1016	1.0	NC	1.0	NC	NC	*	NA	NA	NA	NA	NA	NA	NA	NA	<0.0066	NA
	PCB-1221	1.0	NC	1.0	NC	NC	*	NA	NA	NA	NA	NA	NA	NA	NA	<0.0066	NA
	PCB-1232	1.0	NC	1.0	NC	NC	*	NA	NA	NA	NA	NA	NA	NA	NA	<0.0066	NA
	PCB-1242	1.0	NC	1.0	NC	NC	*	NA	NA	NA	NA	NA	NA	NA	NA	<0.0066	NA
	PCB-1248	1.0	NC	1.0	NC	NC	*	NA	NA	NA	NA	NA	NA	NA	NA	<0.0066	NA
	PCB-1254	1.0	NC	1.0	NC	NC	*	NA	NA	NA	NA	NA	NA	NA	NA	<0.0066	NA
	PCB-1260	1.0	NC	1.0	NC	NC	*	NA	NA	NA	NA	NA	NA	NA	NA	<0.0066	NA

- NOTES:
1. Results expressed in milligrams per kilogram (mg/kg).
  2. NA = Not analyzed for this constituent.
  3. NC = No toxicity criteria for this exposure route.
  4. NE = No established IEPA SRO for this analyte.
  5. Samples were analyzed by EPA Methods 8081/8082.
  6. G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
  7. **Bold values** = Concentration exceeds soil ing. and/or inh. exposure route for residential Tier 1 SROs.
  8. **○** = Concentration exceeds soil ing. and/or inh. exposure route for construction worker Tier 1 SROs.
  9. **■** = Concentration exceeds soil component of the groundwater ing. exposure route for Class II Tier 1 SROs.
  10. \* = The ADL is less than or equal to the specified remediation objective.
  11. SS = Site-specific based upon wet weight of soil.

Table V

Soil Analytical Results - Pesticides & PCBs

Analyte	IEPA SROs						Sample Date Depth (ft)	SB-4	SB-5	SB-6	SB-8	SB-9	SB-10	SB-11	SB-12
	Residential		Construction Worker		G.W. Ing.	ADL		03/09/99	03/09/99	03/09/99	03/09/99	03/09/99	03/09/99	03/09/99	03/09/99
	Ingestion	Inhalation	Ingestion	Inhalation	Class II			1-3	3-5	1-3	5-7	1-3	5-7	5-7	3-5
Pesticides	4,4'-DDD	3.0	NC	520	NC	80	*	NA	NA	NA	NA	NA	NA	NA	NA
	4,4'-DDE	2.0	NC	370	NC	270	*	NA	NA	NA	NA	NA	NA	NA	NA
	4,4'-DDT	2.0	NC	100	2,100	160	*	NA	NA	NA	NA	NA	NA	NA	NA
	Aldrin	0.04	3.0	6.1	9.3	2.5	0.94	NA	NA	NA	NA	NA	NA	NA	NA
	alpha-BHC	0.1	0.8	20	2.1	0.003	0.0074	NA	NA	NA	NA	NA	NA	NA	NA
	alpha-Chlordane	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
	beta-BHC	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
	Chlordane	1.8	72	100	22	48	*	NA	NA	NA	NA	NA	NA	NA	NA
	delta-BHC	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
	Dieldrin	0.04	1.0	7.8	3.1	0.02	0.603	NA	NA	NA	NA	NA	NA	NA	NA
	Endosulfan I	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
	Endosulfan II	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
	Endosulfan Sulfate	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
	Endrin	23	NC	61	NC	5.0	*	NA	NA	NA	NA	NA	NA	NA	NA
	Endrin Aldehyde	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
	Endrin Ketone	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
	gamma-BHC (Lindane)	0.5	NC	96	NC	0.047	*	NA	NA	NA	NA	NA	NA	NA	NA
	gamma-Chlordane	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
	Heptachlor	0.1	0.1	28	16	110	0.871	NA	NA	NA	NA	NA	NA	NA	NA
	Heptachlor Epoxide	0.07	5.0	2.7	13	3.3	1.005	NA	NA	NA	NA	NA	NA	NA	NA
	Methoxychlor	390	NC	1000	NC	780	*	NA	NA	NA	NA	NA	NA	NA	NA
	Toxaphene	0.6	89	110	240	150	*	NA	NA	NA	NA	NA	NA	NA	NA
	PCBs	PCB-1016	1.0	NC	1.0	NC	NC	*	NA	NA	NA	NA	<0.0066	NA	NA
PCB-1221		1.0	NC	1.0	NC	NC	*	NA	NA	NA	NA	<0.0066	NA	NA	NA
PCB-1232		1.0	NC	1.0	NC	NC	*	NA	NA	NA	NA	<0.0066	NA	NA	NA
PCB-1242		1.0	NC	1.0	NC	NC	*	NA	NA	NA	NA	<0.0066	NA	NA	NA
PCB-1248		1.0	NC	1.0	NC	NC	*	NA	NA	NA	NA	<0.0066	NA	NA	NA
PCB-1254		1.0	NC	1.0	NC	NC	*	NA	NA	NA	NA	<0.0066	NA	NA	NA
PCB-1260		1.0	NC	1.0	NC	NC	*	NA	NA	NA	NA	<0.0066	NA	NA	NA

- NOTES:
1. Results expressed in milligrams per kilogram (mg/kg).
  2. NA = Not analyzed for this constituent.
  3. NC = No toxicity criteria for this exposure route.
  4. NE = No established IEPA SRO for this analyte.
  5. Samples were analyzed by EPA Methods 8081/8082.
  6. G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
  7. **Bold values** = Concentration exceeds soil ing. and/or inh. exposure route for residential Tier 1 SROs.
  8. **○** = Concentration exceeds soil ing. and/or inh. exposure route for construction worker Tier 1 SROs.
  9. **■** = Concentration exceeds soil component of the groundwater ing. exposure route for Class II Tier 1 SROs.
  10. \* = The ADL is less than or equal to the specified remediation objective.
  11. SS = Site-specific based upon wet weight of soil.



Table VI

Soil Analytical Results - Inorganics

Analyte	IEPA SROs					ADL	Bkgd. Conc. Level	Sample Date	B-104B (1-3) 11/12/18	B-105B (1-3) 11/12/18	B-105B (3-5) 11/12/18	B-106B (1-3) 10/16/18	B-107B (1-3) 10/16/18	B-109B (1-3) 11/12/18	B-109B (3-5) 11/12/18
	Residential		Construction Worker		Inhalation										
	Ingestion	Inhalation	Ingestion	Inhalation											
pH								7.9	7.9	7.5	7.6	7.1	7.7	7.7	
Inorganics	Aluminum	78,000	1,000,000	410,000	870,000	*	9,500	NA	6900	6300	8100	8300	NA	NA	
	Antimony	31	NC	82	NC	*	4	NA	< 2.0	< 2.1	< 2.2	< 2.4	NA	NA	
	Arsenic	13	750	61	25,000	*	13	11	13	9	15	6.5	7.3	6.1	
	Barium	5,500	690,000	14,000	870,000	*	110	650	72	45	410	90	75	62	
	Beryllium	160	1,300	410	44,000	*	0.59	NA	0.69	< 0.52	1.4	0.65	NA	NA	
	Cadmium	78	1,800	200	59,000	*	0.6	1.2	0.58	< 0.52	1.7	< 0.60	< 0.55	< 0.58	
	Calcium	NE	NE	NE	NE	*	9,300	NA	34000	2000	37000	6400	NA	NA	
	Chromium	230	270	4,100	690	*	16.2	24	14	14	24	13	14	14	
	Chromium, hexavalent	230	270	4,100	690	*	NE	NA	NA	NA	NA	NA	NA	NA	
	Cobalt	4,700	NC	12,000	NC	*	8.9	NA	7.9	6.3	11	4.3	NA	NA	
	Copper	2,900	NC	8,200	NC	*	19.6	NA	27	10	110	27	NA	NA	
	Cyanide	1,600	NC	4,100	NC	*	0.51	NA	0.34	< 0.30	0.91	< 0.34	NA	NA	
	Iron	55,000	NE	140,000	NE	*	15,900	NA	20000	14000	22000	15000	NA	NA	
	Lead	400	NC	700	NC	*	36	930	140	9.8	730	390	170	13	
	Magnesium	325,000	NC	730,000	NC	*	4,820	NA	19000	1900	12000	1400	NA	NA	
	Manganese	1,600	69,000	4,100	8,700	*	636	NA	330	110	520	150	NA	NA	
	Mercury	23	10	61	0.10	*	0.06	0.063	0.032	< 0.021	0.24	0.071	< 0.021	< 0.022	
	Nickel	1,600	13,000	4,100	440,000	*	18	NA	21	12	30	8.9	NA	NA	
	Potassium	NE	NE	NE	NE	*	1,268	NA	840	460	990	470	NA	NA	
	Selenium	390	NC	1,000	NC	*	0.48	< 1.1	< 1.0	< 1.0	1.8	1.5	< 1.1	< 1.2	
	Silver	390	NC	1,000	NC	*	0.55	< 1.1	< 1.0	< 1.0	< 1.1	< 1.2	< 1.1	< 1.2	
Sodium	NE	NE	NE	NE	*	130	NA	79	68	350	< 72	NA	NA		
Thallium	6.3	NC	160	NC	*	0.32	NA	< 1.0	< 1.0	< 1.1	< 1.2	NA	NA		
Vanadium	550	NC	1,400	NC	*	25.2	NA	31	36	31	33	NA	NA		
Zinc	23,000	NC	61,000	NC	*	95	NA	210	48	520	48	NA	NA		

NOTES:

1. All results expressed in milligrams per kilogram (mg/kg).
2. NA = Not analyzed for this constituent.
3. NC = No toxicity criteria for this exposure route.
4. NE = No established IEPA SRO for this analyte.
5. Samples were analyzed utilizing EPA Methods SW6010/3050B/7471A and 9045C.
6. **Bold values** = Concentration exceeds soil ingestion and/or inhalation exposure route for residential Tier 1 SROs.
7. **○** = Concentration exceeds soil ingestion and/or inhalation exposure route for construction worker Tier 1 SROs.
8. \* = The ADL is less than or equal to the specified remediation objective.



Table VI

Soil Analytical Results - Inorganics

Analyte	IEPA SROs					ADL	Bkgd. Conc. Level	Sample Date	B-110B (1-3) 11/12/18	B-110B (3-5) 11/12/18	B-111B (1-3) 10/16/18	B-114B (1-3) 11/13/18	B-114B (3-5) 11/13/18	B-115B (1-3) 11/13/18	B-115B (3-5) 11/13/18
	Residential		Construction Worker		Inhalation										
	Ingestion	Inhalation	Ingestion	Inhalation											
pH								7.7	7.8	7.1	8.2	7.4	7.9	7.3	
Inorganics	Aluminum	78,000	1,000,000	410,000	870,000	*	9,500	NA	NA	6400	NA	NA	NA	NA	
	Antimony	31	NC	82	NC	*	4	NA	NA	< 2.0	NA	NA	NA	NA	
	Arsenic	13	750	61	25,000	*	13	10	14	10	26	5.3	19	7.9	
	Barium	5,500	690,000	14,000	870,000	*	110	58	110	90	290	65	250	64	
	Beryllium	160	1,300	410	44,000	*	0.59	NA	NA	0.77	NA	NA	NA	NA	
	Cadmium	78	1,800	200	59,000	*	0.6	< 0.49	4.5	< 0.51	1.2	< 0.56	1.1	< 0.53	
	Calcium	NE	NE	NE	NE	*	9,300	NA	NA	21000	NA	NA	NA	NA	
	Chromium	230	270	4,100	690	*	16.2	22	14	16	34	13	23	16	
	Chromium, hexavalent	230	270	4,100	690	*	NE	NA	NA	NA	NA	NA	NA	NA	
	Cobalt	4,700	NC	12,000	NC	*	8.9	NA	NA	9.4	NA	NA	NA	NA	
	Copper	2,900	NC	8,200	NC	*	19.6	NA	NA	29	NA	NA	NA	NA	
	Cyanide	1,600	NC	4,100	NC	*	0.51	NA	NA	< 0.30	NA	NA	NA	NA	
	Iron	55,000	NE	140,000	NE	*	15,900	NA	NA	25000	NA	NA	NA	NA	
	Lead	400	NC	700	NC	*	36	31	700	170	290	18	400	19	
	Magnesium	325,000	NC	730,000	NC	*	4,820	NA	NA	11000	NA	NA	NA	NA	
	Manganese	1,600	69,000	4,100	8,700	*	636	NA	NA	280	NA	NA	NA	NA	
	Mercury	23	10	61	0.10	*	0.06	< 0.021	< 0.021	0.042	0.073	< 0.023	1.7	< 0.022	
	Nickel	1,600	13,000	4,100	440,000	*	18	NA	NA	25	NA	NA	NA	NA	
	Potassium	NE	NE	NE	NE	*	1,268	NA	NA	1000	NA	NA	NA	NA	
	Selenium	390	NC	1,000	NC	*	0.48	< 0.99	1.1	1.8	< 1.6	< 1.1	< 1.0	< 1.1	
	Silver	390	NC	1,000	NC	*	0.55	< 0.99	< 1.1	< 1.0	5	< 1.1	< 1.0	< 1.1	
Sodium	NE	NE	NE	NE	*	130	NA	NA	180	NA	NA	NA	NA		
Thallium	6.3	NC	160	NC	*	0.32	NA	NA	< 1.0	NA	NA	NA	NA		
Vanadium	550	NC	1,400	NC	*	25.2	NA	NA	37	NA	NA	NA	NA		
Zinc	23,000	NC	61,000	NC	*	95	NA	NA	180	NA	NA	NA	NA		

NOTES:

1. All results expressed in milligrams per kilogram (mg/kg).
2. NA = Not analyzed for this constituent.
3. NC = No toxicity criteria for this exposure route.
4. NE = No established IEPA SRO for this analyte.
5. Samples were analyzed utilizing EPA Methods SW6010/3050B/7471A and 9045C.
6. **Bold values** = Concentration exceeds soil ingestion and/or inhalation exposure route for residential Tier 1 SROs.
7. **○** = Concentration exceeds soil ingestion and/or inhalation exposure route for construction worker Tier 1 SROs.
8. \* = The ADL is less than or equal to the specified remediation objective.

Table VI

Soil Analytical Results - Inorganics

Analyte	IEPA SROs				ADL	Bkgd. Conc. Level	Sample Date	B-116B (1-3) 11/12/18	B-116B (3-5) 11/12/18	B-117B (1-3) 11/13/18	B-117B (3-5) 11/13/18	B-118B (1-3) 11/13/18	B-118B (3-5) 11/13/18	B-205B (1-3) 11/29/18
	Residential		Construction Worker											
	Ingestion	Inhalation	Ingestion	Inhalation										
pH							7.5	7.3	7.9	7.3	8.1	7.3	NA	
Aluminum	78,000	1,000,000	410,000	870,000	*	9,500	6500	9100	NA	NA	NA	NA	NA	
Antimony	31	NC	82	NC	*	4	< 2.0	< 2.3	NA	NA	NA	NA	NA	
Arsenic	13	750	61	25,000	*	13	11	9	14	7.4	13	6.1	9.1	
Barium	5,500	690,000	14,000	870,000	*	110	54	73	77	53	67	56	NA	
Beryllium	160	1,300	410	44,000	*	0.59	0.54	< 0.58	NA	NA	NA	NA	NA	
Cadmium	78	1,800	200	59,000	*	0.6	< 0.50	< 0.58	4.2	< 0.49	0.53	< 0.52	NA	
Calcium	NE	NE	NE	NE	*	9,300	<b>28000</b>	4000	NA	NA	NA	NA	NA	
Chromium	230	270	4,100	690	*	16.2	15	15	13	14	29	13	NA	
Chromium, hexavalent	230	270	4,100	690	*	NE	NA	NA	NA	NA	NA	NA	NA	
Cobalt	4,700	NC	12,000	NC	*	8.9	9.1	5.5	NA	NA	NA	NA	NA	
Copper	2,900	NC	8,200	NC	*	19.6	29	11	NA	NA	NA	NA	NA	
Cyanide	1,600	NC	4,100	NC	*	0.51	1.3	< 0.32	NA	NA	NA	NA	NA	
Iron	55,000	NE	140,000	NE	*	15,900	29000	16000	NA	NA	NA	NA	NA	
Lead	400	NC	700	NC	*	36	110	20	77	12	140	86	NA	
Magnesium	325,000	NC	730,000	NC	*	4,820	14000	1800	NA	NA	NA	NA	NA	
Manganese	1,600	69,000	4,100	8,700	*	636	310	86	NA	NA	NA	NA	NA	
Mercury	23	10	61	0.10	*	0.06	0.027	< 0.024	< 0.023	< 0.021	0.051	< 0.024	NA	
Nickel	1,600	13,000	4,100	440,000	*	18	22	10	NA	NA	NA	NA	NA	
Potassium	NE	NE	NE	NE	*	1,268	1000	500	NA	NA	NA	NA	NA	
Selenium	390	NC	1,000	NC	*	0.48	< 1.0	< 1.2	2.4	< 0.98	< 1.0	< 1.0	NA	
Silver	390	NC	1,000	NC	*	0.55	< 1.0	< 1.2	< 1.1	< 0.98	< 1.0	< 1.0	NA	
Sodium	NE	NE	NE	NE	*	130	100	< 70	NA	NA	NA	NA	NA	
Thallium	6.3	NC	160	NC	*	0.32	< 1.0	< 1.2	NA	NA	NA	NA	NA	
Vanadium	550	NC	1,400	NC	*	25.2	29	42	NA	NA	NA	NA	NA	
Zinc	23,000	NC	61,000	NC	*	95	64	23	NA	NA	NA	NA	NA	

NOTES:

1. All results expressed in milligrams per kilogram (mg/kg).
2. NA = Not analyzed for this constituent.
3. NC = No toxicity criteria for this exposure route.
4. NE = No established IEPA SRO for this analyte.
5. Samples were analyzed utilizing EPA Methods SW6010/3050B/7471A and 9045C.
6. **Bold values** = Concentration exceeds soil ingestion and/or inhalation exposure route for residential Tier 1 SROs.
7. **○** = Concentration exceeds soil ingestion and/or inhalation exposure route for construction worker Tier 1 SROs.
8. \* = The ADL is less than or equal to the specified remediation objective.

Table VI

Soil Analytical Results - Inorganics

Analyte	IEPA SROs					Bkgd.	Sample	B-206B (1-3)	B-206B (3-5)	B-207B (1-3)	B-207B (3-5)	B-208B (1-3)	B-208B (3-5)	B-209B (1-3)
	Residential		Construction Worker		ADL	Conc.	Date	11/29/18	11/29/18	11/29/18	11/29/18	11/29/18	11/29/18	11/29/18
	Ingestion	Inhalation	Ingestion	Inhalation		Level	Depth (ft)	1-3	3-5	1-3	3-5	1-3	3-5	1-3
pH								NA	NA	NA	NA	NA	NA	NA
Inorganics	Aluminum	78,000	1,000,000	410,000	870,000	*	9,500	NA	NA	NA	NA	NA	NA	NA
	Antimony	31	NC	82	NC	*	4	NA	NA	NA	NA	NA	NA	NA
	Arsenic	13	750	61	25,000	*	13	10	7.6	6.8	NA	15	5.2	9.4
	Barium	5,500	690,000	14,000	870,000	*	110	NA	NA	NA	NA	NA	NA	NA
	Beryllium	160	1,300	410	44,000	*	0.59	NA	NA	NA	NA	NA	NA	NA
	Cadmium	78	1,800	200	59,000	*	0.6	NA	NA	NA	NA	NA	NA	NA
	Calcium	NE	NE	NE	NE	*	9,300	NA	NA	NA	NA	NA	NA	NA
	Chromium	230	270	4,100	690	*	16.2	NA	NA	NA	NA	NA	NA	NA
	Chromium, hexavalent	230	270	4,100	690	*	NE	NA	NA	NA	NA	NA	NA	NA
	Cobalt	4,700	NC	12,000	NC	*	8.9	NA	NA	NA	NA	NA	NA	NA
	Copper	2,900	NC	8,200	NC	*	19.6	NA	NA	NA	NA	NA	NA	NA
	Cyanide	1,600	NC	4,100	NC	*	0.51	NA	NA	NA	NA	NA	NA	NA
	Iron	55,000	NE	140,000	NE	*	15,900	19000	13000	16000	NA	24000	1200	NA
	Lead	400	NC	700	NC	*	36	330	8.4	14	110	31	17	NA
	Magnesium	325,000	NC	730,000	NC	*	4,820	NA	NA	NA	NA	NA	NA	NA
	Manganese	1,600	69,000	4,100	8,700	*	636	NA	NA	NA	NA	NA	NA	NA
	Mercury	23	10	61	0.10	*	0.06	NA	NA	NA	NA	NA	NA	NA
	Nickel	1,600	13,000	4,100	440,000	*	18	NA	NA	NA	NA	NA	NA	NA
	Potassium	NE	NE	NE	NE	*	1,268	NA	NA	NA	NA	NA	NA	NA
	Selenium	390	NC	1,000	NC	*	0.48	NA	NA	NA	NA	NA	NA	NA
Silver	390	NC	1,000	NC	*	0.55	NA	NA	NA	NA	NA	NA	NA	
Sodium	NE	NE	NE	NE	*	130	NA	NA	NA	NA	NA	NA	NA	
Thallium	6.3	NC	160	NC	*	0.32	NA	NA	NA	NA	NA	NA	NA	
Vanadium	550	NC	1,400	NC	*	25.2	NA	NA	NA	NA	NA	NA	NA	
Zinc	23,000	NC	61,000	NC	*	95	NA	NA	NA	NA	NA	NA	NA	

NOTES:

1. All results expressed in milligrams per kilogram (mg/kg).
2. NA = Not analyzed for this constituent.
3. NC = No toxicity criteria for this exposure route.
4. NE = No established IEPA SRO for this analyte.
5. Samples were analyzed utilizing EPA Methods SW6010/3050B/7471A and 9045C.
6. **Bold values** = Concentration exceeds soil ingestion and/or inhalation exposure route for residential Tier 1 SROs.
7. **○** = Concentration exceeds soil ingestion and/or inhalation exposure route for construction worker Tier 1 SROs.
8. \* = The ADL is less than or equal to the specified remediation objective.

Table VI

Soil Analytical Results - Inorganics

Analyte	IEPA SROs					Bkgd.	Sample	B-209B (3-5)	B-210B (1-3)	B-211B (1-3)	B-211B (3-5)	B-212B (1-3)	B-213B (1-3)	B-214B (1-3)
	Residential		Construction Worker		ADL	Conc.	Date	11/29/18	11/29/18	11/29/18	11/29/18	11/29/18	11/29/18	11/29/18
	Ingestion	Inhalation	Ingestion	Inhalation		Level	Depth (ft)	3-5	1-3	1-3	3-5	1-3	1-3	1-3
pH								NA	NA	NA	NA	NA	NA	NA
Inorganics	Aluminum	78,000	1,000,000	410,000	870,000	*	9,500	NA	NA	NA	NA	NA	NA	NA
	Antimony	31	NC	82	NC	*	4	NA	NA	NA	NA	NA	NA	NA
	Arsenic	13	750	61	25,000	*	13	5.8	9.8	14	5.5	8.1	11	8.1
	Barium	5,500	690,000	14,000	870,000	*	110	NA	NA	NA	NA	NA	NA	NA
	Beryllium	160	1,300	410	44,000	*	0.59	NA	NA	NA	NA	NA	NA	NA
	Cadmium	78	1,800	200	59,000	*	0.6	NA	NA	NA	NA	NA	NA	NA
	Calcium	NE	NE	NE	NE	*	9,300	NA	NA	NA	NA	NA	NA	NA
	Chromium	230	270	4,100	690	*	16.2	NA	NA	NA	NA	NA	NA	NA
	Chromium, hexavalent	230	270	4,100	690	*	NE	NA	NA	NA	NA	NA	NA	NA
	Cobalt	4,700	NC	12,000	NC	*	8.9	NA	NA	NA	NA	NA	NA	NA
	Copper	2,900	NC	8,200	NC	*	19.6	NA	NA	NA	NA	NA	NA	NA
	Cyanide	1,600	NC	4,100	NC	*	0.51	NA	NA	NA	NA	NA	NA	NA
	Iron	55,000	NE	140,000	NE	*	15,900	NA	NA	NA	NA	NA	NA	NA
	Lead	400	NC	700	NC	*	36	NA	NA	380	NA	NA	NA	NA
	Magnesium	325,000	NC	730,000	NC	*	4,820	NA	NA	NA	NA	NA	NA	NA
	Manganese	1,600	69,000	4,100	8,700	*	636	NA	NA	NA	NA	NA	NA	NA
	Mercury	23	10	61	0.10	*	0.06	NA	NA	NA	NA	NA	NA	NA
	Nickel	1,600	13,000	4,100	440,000	*	18	NA	NA	NA	NA	NA	NA	NA
	Potassium	NE	NE	NE	NE	*	1,268	NA	NA	NA	NA	NA	NA	NA
	Selenium	390	NC	1,000	NC	*	0.48	NA	NA	NA	NA	NA	NA	NA
Silver	390	NC	1,000	NC	*	0.55	NA	NA	NA	NA	NA	NA	NA	
Sodium	NE	NE	NE	NE	*	130	NA	NA	NA	NA	NA	NA	NA	
Thallium	6.3	NC	160	NC	*	0.32	NA	NA	NA	NA	NA	NA	NA	
Vanadium	550	NC	1,400	NC	*	25.2	NA	NA	NA	NA	NA	NA	NA	
Zinc	23,000	NC	61,000	NC	*	95	NA	NA	NA	NA	NA	NA	NA	

NOTES:

1. All results expressed in milligrams per kilogram (mg/kg).
2. NA = Not analyzed for this constituent.
3. NC = No toxicity criteria for this exposure route.
4. NE = No established IEPA SRO for this analyte.
5. Samples were analyzed utilizing EPA Methods SW6010/3050B/7471A and 9045C.
6. **Bold values** = Concentration exceeds soil ingestion and/or inhalation exposure route for residential Tier 1 SROs.
7. **○** = Concentration exceeds soil ingestion and/or inhalation exposure route for construction worker Tier 1 SROs.
8. \* = The ADL is less than or equal to the specified remediation objective.

Table VI

Soil Analytical Results - Inorganics

Analyte	IEPA SROs					Bkgd.	Sample	B-214 (3-5)	SB-1	SB-3	SB-4	SB-5	SB-6	SB-8
	Residential		Construction Worker		ADL	Conc.	Date	11/29/18	03/09/99	03/09/99	03/09/99	03/09/99	03/09/99	03/09/99
	Ingestion	Inhalation	Ingestion	Inhalation		Level	Depth (ft)	3-5	1-3	1.5-4	1-3	3-5	1-3	5-7
pH								NA	NA	NA	NA	NA	NA	NA
Inorganics	Aluminum	78,000	1,000,000	410,000	870,000	*	9,500	NA	NA	NA	NA	NA	NA	NA
	Antimony	31	NC	82	NC	*	4	NA	0.595	0.309	0.557	0.472	<0.2	<0.2
	Arsenic	13	750	61	25,000	*	13	NA	6.81	5.93	0.53	15.1	5.81	12.6
	Barium	5,500	690,000	14,000	870,000	*	110	NA	NA	NA	NA	NA	NA	NA
	Beryllium	160	1,300	410	44,000	*	0.59	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	Cadmium	78	1,800	200	59,000	*	0.6	NA	2.2	2.27	2.69	3.07	<2.0	2.04
	Calcium	NE	NE	NE	NE	*	9,300	NA	NA	NA	NA	NA	NA	NA
	Chromium	230	270	4,100	690	*	16.2	NA	11.5	9.98	13	12.2	11.2	10.6
	Chromium, hexavalent	230	270	4,100	690	*	NE	NA	NA	NA	NA	NA	NA	NA
	Cobalt	4,700	NC	12,000	NC	*	8.9	NA	NA	NA	NA	NA	NA	NA
	Copper	2,900	NC	8,200	NC	*	19.6	NA	15	12.3	16.2	7.18	10.2	7.18
	Cyanide	1,600	NC	4,100	NC	*	0.51	NA	NA	NA	NA	NA	NA	NA
	Iron	55,000	NE	140,000	NE	*	15,900	NA	NA	NA	NA	NA	NA	NA
	Lead	400	NC	700	NC	*	36	NA	37.1	137	135	16.8	79.7	10.9
	Magnesium	325,000	NC	730,000	NC	*	4,820	NA	NA	NA	NA	NA	NA	NA
	Manganese	1,600	69,000	4,100	8,700	*	636	NA	NA	NA	NA	NA	NA	NA
	Mercury	23	10	61	0.10	*	0.06	NA	<0.1	0.133	0.104	<0.1	0.153	<0.1
	Nickel	1,600	13,000	4,100	440,000	*	18	NA	7.11	6.97	11.9	11.4	7.69	11.9
	Potassium	NE	NE	NE	NE	*	1,268	NA	NA	NA	NA	NA	NA	NA
	Selenium	390	NC	1,000	NC	*	0.48	NA	0.819	0.725	1.06	<0.2	0.457	<0.2
	Silver	390	NC	1,000	NC	*	0.55	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Sodium	NE	NE	NE	NE	*	130	NA	NA	NA	NA	NA	NA	NA	
Thallium	6.3	NC	160	NC	*	0.32	NA	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
Vanadium	550	NC	1,400	NC	*	25.2	NA	NA	NA	NA	NA	NA	NA	
Zinc	23,000	NC	61,000	NC	*	95	NA	37.3	34.5	71.3	33.9	27.1	41	

NOTES:

1. All results expressed in milligrams per kilogram (mg/kg).
2. NA = Not analyzed for this constituent.
3. NC = No toxicity criteria for this exposure route.
4. NE = No established IEPA SRO for this analyte.
5. Samples were analyzed utilizing EPA Methods SW6010/3050B/7471A and 9045C.
6. **Bold values** = Concentration exceeds soil ingestion and/or inhalation exposure route for residential Tier 1 SROs.
7. **○** = Concentration exceeds soil ingestion and/or inhalation exposure route for construction worker Tier 1 SROs.
8. \* = The ADL is less than or equal to the specified remediation objective.

Table VI

## Soil Analytical Results - Inorganics

Analyte	IEPA SROs					ADL	Bkgd. Conc. Level	Sample Date	SB-9 03/09/99 1-3	SB-10 03/09/99 5-7	SB-11 03/09/99 5-7	SB-12 03/09/99 3-5
	Residential		Construction Worker		Inhalation							
	Ingestion	Inhalation	Ingestion	Inhalation								
pH									NA	NA	NA	NA
Inorganics	Aluminum	78,000	1,000,000	410,000	870,000	*	9,500		NA	NA	NA	NA
	Antimony	31	NC	82	NC	*	4		0.57	0.863	0.615	0.442
	Arsenic	13	750	61	25,000	*	13		9.67	10.9	11	16.9
	Barium	5,500	690,000	14,000	870,000	*	110		NA	NA	NA	NA
	Beryllium	160	1,300	410	44,000	*	0.59		<1.0	<1.0	<1.0	<1.0
	Cadmium	78	1,800	200	59,000	*	0.6		3.37	2.63	2.4	3.46
	Calcium	NE	NE	NE	NE	*	9,300		NA	NA	NA	NA
	Chromium	230	270	4,100	690	*	16.2		12.5	10.6	9.92	14.1
	Chromium, hexavalent	230	270	4,100	690	*	NE		NA	NA	NA	NA
	Cobalt	4,700	NC	12,000	NC	*	8.9		NA	NA	NA	NA
	Copper	2,900	NC	8,200	NC	*	19.6		12.7	25.6	13.3	11.2
	Cyanide	1,600	NC	4,100	NC	*	0.51		NA	NA	<0.29	<0.31
	Iron	55,000	NE	140,000	NE	*	15,900		NA	NA	NA	NA
	Lead	400	NC	700	NC	*	36		34.6	17.7	11.5	13.6
	Magnesium	325,000	NC	730,000	NC	*	4,820		NA	NA	NA	NA
	Manganese	1,600	69,000	4,100	8,700	*	636		NA	NA	NA	NA
	Mercury	23	10	61	0.10	*	0.06		<0.1	<0.1	<0.1	<0.1
	Nickel	1,600	13,000	4,100	440,000	*	18		14	21.9	11.4	14.2
	Potassium	NE	NE	NE	NE	*	1,268		NA	NA	NA	NA
	Selenium	390	NC	1,000	NC	*	0.48		>0.2	0.81	0.235	0.229
Silver	390	NC	1,000	NC	*	0.55		<1.0	<1.0	<1.0	<1.0	
Sodium	NE	NE	NE	NE	*	130		NA	NA	NA	NA	
Thallium	6.3	NC	160	NC	*	0.32		<0.2	0.524	<0.2	<0.2	
Vanadium	550	NC	1,400	NC	*	25.2		NA	NA	NA	NA	
Zinc	23,000	NC	61,000	NC	*	95		46.4	65.6	55.8	38.8	

## NOTES:

- All results expressed in milligrams per kilogram (mg/kg).
- NA = Not analyzed for this constituent.
- NC = No toxicity criteria for this exposure route.
- NE = No established IEPA SRO for this analyte.
- Samples were analyzed utilizing EPA Methods SW6010/3050B/7471A and 9045C.
- Bold values** = Concentration exceeds soil ingestion and/or inhalation exposure route for residential Tier 1 SROs.
- = Concentration exceeds soil ingestion and/or inhalation exposure route for construction worker Tier 1 SROs.
- \* = The ADL is less than or equal to the specified remediation objective.

Table VII

Soil Analytical Results - pH-Specific Inorganics

Analyte	IEPA SROs								Bkgd.	Sample	B-104B (1-3)	B-105B (1-3)	B-105B (3-5)	B-106B (1-3)	B-107B (1-3)
	G.W. Ing. - pH-Specific SROs								Conc.	Date	11/12/18	11/12/18	11/12/18	10/16/18	10/16/18
	Class I				Class II				ADL	Level	Depth (ft)	1-3	1-3	3-5	1-3
pH	6.9-7.24	7.25-7.74	7.75-8.24	6.9-7.24	7.25-7.74	7.75-8.24	8.25-8.74		-		7.87	7.89	7.54	7.59	7.12
Inorganics	Aluminum	NE	NE	NE	NE	NE	NE	*	9,500		NA	6900	6300	8100	8300
	Antimony	5	5	5	20	20	20	*	4		NA	< 2.0	< 2.1	< 2.2	< 2.4
	Arsenic	29	30	31	120	120	120	130	*	13	11	13	9	15	6.5
	Barium	1,700	1,800	2,100	1700	1800	2100	NE	*	110	650	72	45	410	90
	Beryllium	140	1,000	8,000	17000	130000	1000000	NE	*	0.59	NA	0.69	< 0.52	1.4	0.65
	Cadmium	11	59	430	110	590	4300	NE	*	0.6	1.2	0.58	< 0.52	1.7	< 0.60
	Calcium	NE	NE	NE	NE	NE	NE	NE	*	9,300	NA	34000	2000	37000	6400
	Chromium**	36	32	28	NE	NE	NE	NE	*	16.2	24	14	14	24	13
	Cobalt	NE	NE	NE	NE	NE	NE	NE	*	8.9	NA	7.9	6.3	11	4.3
	Copper	200,000	330,000	330,000	200,000	330,000	330,000	NE	*	19.6	NA	27	10	110	27
	Cyanide	40	40	40	120	120	120	120	*	0.51	NA	0.34	< 0.30	0.91	< 0.34
	Iron	NE	NE	NE	NE	NE	NE	NE	*	15,900	NA	20000	14000	22000	15000
	Lead	107	107	107	1,420	1,420	1,420	1,420	*	36	930	140	9.8	730	390
	Magnesium	NE	NE	NE	NE	NE	NE	NE	*	4,820	NA	19000	1900	12000	1400
	Manganese	NE	NE	NE	NE	NE	NE	NE	*	636	NE	330	110	520	150
	Mercury	3.3	6.4	8	16	32	40	NE	*	0.06	0.063	0.032	< 0.021	0.24	0.071
	Nickel	180	700	3,800	3500	14000	76000	NE	*	18	NA	21	12	30	8.9
	Potassium	NE	NE	NE	NE	NE	NE	NE	*	1,268	NA	840	460	990	470
	Selenium	4.5	3.3	2.4	4.5	3.3	2.4	1.8	*	0.48	< 1.1	< 1.0	< 1.0	1.8	1.5
	Silver	13	39	110	NE	NE	NE	NE	*	0.55	< 1.1	< 1.0	< 1.0	< 1.1	< 1.2
Sodium	NE	NE	NE	NE	NE	NE	NE	*	130	NA	79	68	350	< 72	
Thallium	3	3.4	3.8	30	34	38	44	*	0.32	NA	< 1.0	< 1.0	< 1.1	< 1.2	
Vanadium	980	980	980	NE	NE	NE	NE	*	25.2	NA	31	36	31	33	
Zinc	7,500	16,000	53,000	15000	32000	110000	NE	*	95	NA	210	48	520	48	

NOTES:

- All results expressed in milligrams per kilogram (mg/kg).
- NA = Not analyzed for this constituent.
- NE = No established IEPA SRO for this analyte.
- Samples were analyzed utilizing EPA Methods SW6020/3050B/7471/9012A and 9045C.
- G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
- Bkgd. Conc. Level = IEPA-established background concentration within Metropolitan Statistical Areas (MSAs).
- ☐ = Concentration exceeds soil component of the groundwater ing. exposure route for applicable Class I and/or Class II Tier 1 SRO.
- \*\*Chromium pH-specific SROs from migration to Class I groundwater for Chromium<sup>VI</sup>.
- For samples with pH above 9.0 or below 4.5, concentrations were compared to Tier 1 SROs in nearest range.

Table VII

## Soil Analytical Results - pH-Specific Inorganics

Analyte	IEPA SROs								Bkgd. Conc. Level	Sample Date Depth (ft)	B-109B (1-3) 11/12/18 1-3	B-109B (3-5) 11/12/18 3-5	B-110B (1-3) 11/12/18 1-3	B-110B (3-5) 11/12/18 3-5	B-111B (1-3) 10/16/18 1-3	
	G.W. Ing. - pH-Specific SROs															
	Class I				Class II											ADL
pH	6.9-7.24	7.25-7.74	7.75-8.24	6.9-7.24	7.25-7.74	7.75-8.24	8.25-8.74		-		7.68	7.70	7.69	7.83	7.11	
Inorganics	Aluminum	NE	NE	NE	NE	NE	NE	*	9,500		NA	NA	NA	NA	6400	
	Antimony	5	5	5	20	20	20	*	4		NA	NA	NA	NA	< 2.0	
	Arsenic	29	30	31	120	120	120	130	*	13		7.3	6.1	10	14	10
	Barium	1,700	1,800	2,100	1700	1800	2100	NE	*	110		75	62	58	110	90
	Beryllium	140	1,000	8,000	17000	130000	1000000	NE	*	0.59		NA	NA	NA	NA	0.77
	Cadmium	11	59	430	110	590	4300	NE	*	0.6		< 0.55	< 0.58	< 0.49	4.5	< 0.51
	Calcium	NE	NE	NE	NE	NE	NE	NE	*	9,300		NA	NA	NA	NA	21000
	Chromium**	36	32	28	NE	NE	NE	NE	*	16.2		14	14	22	14	16
	Cobalt	NE	NE	NE	NE	NE	NE	NE	*	8.9		NA	NA	NA	NA	9.4
	Copper	200,000	330,000	330,000	200,000	330,000	330,000	NE	*	19.6		NA	NA	NA	NA	29
	Cyanide	40	40	40	120	120	120	120	*	0.51		NA	NA	NA	NA	< 0.30
	Iron	NE	NE	NE	NE	NE	NE	NE	*	15,900		NA	NA	NA	NA	25000
	Lead	107	107	107	1,420	1,420	1,420	1,420	*	36		170	13	31	700	170
	Magnesium	NE	NE	NE	NE	NE	NE	NE	*	4,820		NA	NA	NA	NA	11000
	Manganese	NE	NE	NE	NE	NE	NE	NE	*	636		NA	NA	NA	NA	280
	Mercury	3.3	6.4	8	16	32	40	NE	*	0.06		< 0.021	< 0.022	< 0.021	< 0.021	0.042
	Nickel	180	700	3,800	3500	14000	76000	NE	*	18		NA	NA	NA	NA	25
	Potassium	NE	NE	NE	NE	NE	NE	NE	*	1,268		NA	NA	NA	NA	1000
	Selenium	4.5	3.3	2.4	4.5	3.3	2.4	1.8	*	0.48		< 1.1	< 1.2	< 0.99	1.1	1.8
	Silver	13	39	110	NE	NE	NE	NE	*	0.55		< 1.1	< 1.2	< 0.99	< 1.1	< 1.0
Sodium	NE	NE	NE	NE	NE	NE	NE	*	130		NA	NA	NA	NA	180	
Thallium	3	3.4	3.8	30	34	38	44	*	0.32		NA	NA	NA	NA	< 1.0	
Vanadium	980	980	980	NE	NE	NE	NE	*	25.2		NA	NA	NA	NA	37	
Zinc	7,500	16,000	53,000	15000	32000	110000	NE	*	95		NA	NA	NA	NA	180	

## NOTES:

- All results expressed in milligrams per kilogram (mg/kg).
- NA = Not analyzed for this constituent.
- NE = No established IEPA SRO for this analyte.
- Samples were analyzed utilizing EPA Methods SW6020/3050B/7471/9012A and 9045C.
- G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
- Bkgd. Conc. Level = IEPA-established background concentration within Metropolitan Statistical Areas (MSAs).
- ☐ = Concentration exceeds soil component of the groundwater ing. exposure route for applicable Class I and/or Class II Tier 1 SRO.
- \*\*Chromium pH-specific SROs from migration to Class I groundwater for Chromium<sup>VI</sup>.
- For samples with pH above 9.0 or below 4.5, concentrations were compared to Tier 1 SROs in nearest range.



Table VII

Soil Analytical Results - pH-Specific Inorganics

Analyte	IEPA SROs								Bkgd.	Sample	B-114B (1-3)	B-114B (3-5)	B-115B (1-3)	B-115B (3-5)	B-116B (1-3)
	G.W. Ing. - pH-Specific SROs								Conc.	Date	11/13/18	11/13/18	11/13/18	11/13/18	11/12/18
	Class I				Class II				ADL	Level	Depth (ft)	1-3	3-5	1-3	3-5
pH	6.9-7.24	7.25-7.74	7.75-8.24	6.9-7.24	7.25-7.74	7.75-8.24	8.25-8.74		-		8.21	7.37	7.92	7.31	7.47
Inorganics	Aluminum	NE	NE	NE	NE	NE	NE	*	9,500		NA	NA	NA	NA	6500
	Antimony	5	5	5	20	20	20	*	4		NA	NA	NA	NA	< 2.0
	Arsenic	29	30	31	120	120	120	130	*	13	26	5.3	19	7.9	11
	Barium	1,700	1,800	2,100	1700	1800	2100	NE	*	110	290	65	250	64	54
	Beryllium	140	1,000	8,000	17000	130000	1000000	NE	*	0.59	NA	NA	NA	NA	0.54
	Cadmium	11	59	430	110	590	4300	NE	*	0.6	1.2	< 0.56	1.1	< 0.53	< 0.50
	Calcium	NE	NE	NE	NE	NE	NE	NE	*	9,300	NA	NA	NA	NA	28000
	Chromium**	36	32	28	NE	NE	NE	NE	*	16.2	34	13	23	16	15
	Cobalt	NE	NE	NE	NE	NE	NE	NE	*	8.9	NA	NA	NA	NA	9.1
	Copper	200,000	330,000	330,000	200,000	330,000	330,000	NE	*	19.6	NA	NA	NA	NA	29
	Cyanide	40	40	40	120	120	120	120	*	0.51	NA	NA	NA	NA	1.3
	Iron	NE	NE	NE	NE	NE	NE	NE	*	15,900	NA	NA	NA	NA	29000
	Lead	107	107	107	1,420	1,420	1,420	1,420	*	36	290	18	400	19	110
	Magnesium	NE	NE	NE	NE	NE	NE	NE	*	4,820	NA	NA	NA	NA	14000
	Manganese	NE	NE	NE	NE	NE	NE	NE	*	636	NA	NA	NA	NA	310
	Mercury	3.3	6.4	8	16	32	40	NE	*	0.06	0.073	< 0.023	1.7	< 0.022	0.027
	Nickel	180	700	3,800	3500	14000	76000	NE	*	18	NA	NA	NA	NA	22
	Potassium	NE	NE	NE	NE	NE	NE	NE	*	1,268	NA	NA	NA	NA	1000
	Selenium	4.5	3.3	2.4	4.5	3.3	2.4	1.8	*	0.48	< 1.6	< 1.1	< 1.0	< 1.1	< 1.0
	Silver	13	39	110	NE	NE	NE	NE	*	0.55	5	< 1.1	< 1.0	< 1.1	< 1.0
Sodium	NE	NE	NE	NE	NE	NE	NE	*	130	NA	NA	NA	NA	100	
Thallium	3	3.4	3.8	30	34	38	44	*	0.32	NA	NA	NA	NA	< 1.0	
Vanadium	980	980	980	NE	NE	NE	NE	*	25.2	NA	NA	NA	NA	29	
Zinc	7,500	16,000	53,000	15000	32000	110000	NE	*	95	NA	NA	NA	NA	64	

NOTES:

- All results expressed in milligrams per kilogram (mg/kg).
- NA = Not analyzed for this constituent.
- NE = No established IEPA SRO for this analyte.
- Samples were analyzed utilizing EPA Methods SW6020/3050B/7471/9012A and 9045C.
- G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
- Bkgd. Conc. Level = IEPA-established background concentration within Metropolitan Statistical Areas (MSAs).
- ☐ = Concentration exceeds soil component of the groundwater ing. exposure route for applicable Class I and/or Class II Tier 1 SRO.
- \*\*Chromium pH-specific SROs from migration to Class I groundwater for Chromium<sup>VI</sup>.
- For samples with pH above 9.0 or below 4.5, concentrations were compared to Tier 1 SROs in nearest range.

Table VII

Soil Analytical Results - pH-Specific Inorganics

Analyte	IEPA SROs								Bkgd.	Sample	B-116B (3-5)	B-117B (1-3)	B-117B (3-5)	B-118B (1-3)	B-118B (3-5)
	G.W. Ing. - pH-Specific SROs								Conc.	Date	11/12/18	11/13/18	11/13/18	11/13/18	11/13/18
	Class I				Class II				ADL	Level	Depth (ft)	3-5	1-3	3-5	1-3
pH	6.9-7.24	7.25-7.74	7.75-8.24	6.9-7.24	7.25-7.74	7.75-8.24	8.25-8.74		-		7.34	7.88	7.25	8.13	7.32
Inorganics	Aluminum	NE	NE	NE	NE	NE	NE	*	9,500		9100	NA	NA	NA	NA
	Antimony	5	5	5	20	20	20	*	4		< 2.3	NA	NA	NA	NA
	Arsenic	29	30	31	120	120	120	130	*	13	9	14	7.4	13	6.1
	Barium	1,700	1,800	2,100	1700	1800	2100	NE	*	110	73	77	53	67	56
	Beryllium	140	1,000	8,000	17000	130000	1000000	NE	*	0.59	< 0.58	NA	NA	NA	NA
	Cadmium	11	59	430	110	590	4300	NE	*	0.6	< 0.58	4.2	< 0.49	0.53	< 0.52
	Calcium	NE	NE	NE	NE	NE	NE	NE	*	9,300	4000	NA	NA	NA	NA
	Chromium**	36	32	28	NE	NE	NE	NE	*	16.2	15	13	14	29	13
	Cobalt	NE	NE	NE	NE	NE	NE	NE	*	8.9	5.5	NA	NA	NA	NA
	Copper	200,000	330,000	330,000	200,000	330,000	330,000	NE	*	19.6	11	NA	NA	NA	NA
	Cyanide	40	40	40	120	120	120	120	*	0.51	< 0.32	NA	NA	NA	NA
	Iron	NE	NE	NE	NE	NE	NE	NE	*	15,900	16000	NA	NA	NA	NA
	Lead	107	107	107	1,420	1,420	1,420	1,420	*	36	20	77	12	140	86
	Magnesium	NE	NE	NE	NE	NE	NE	NE	*	4,820	1800	NA	NA	NA	NA
	Manganese	NE	NE	NE	NE	NE	NE	NE	*	636	86	NA	NA	NA	NA
	Mercury	3.3	6.4	8	16	32	40	NE	*	0.06	< 0.024	< 0.023	< 0.021	0.051	< 0.024
	Nickel	180	700	3,800	3500	14000	76000	NE	*	18	10	NA	NA	NA	NA
	Potassium	NE	NE	NE	NE	NE	NE	NE	*	1,268	500	NA	NA	NA	NA
	Selenium	4.5	3.3	2.4	4.5	3.3	2.4	1.8	*	0.48	< 1.2	2.40	< 0.98	< 1.0	< 1.0
	Silver	13	39	110	NE	NE	NE	NE	*	0.55	< 1.2	< 1.1	< 0.98	< 1.0	< 1.0
Sodium	NE	NE	NE	NE	NE	NE	NE	*	130	< 70	NA	NA	NA	NA	
Thallium	3	3.4	3.8	30	34	38	44	*	0.32	< 1.2	NA	NA	NA	NA	
Vanadium	980	980	980	NE	NE	NE	NE	*	25.2	42	NA	NA	NA	NA	
Zinc	7,500	16,000	53,000	15000	32000	110000	NE	*	95	23	NA	NA	NA	NA	

NOTES:

- All results expressed in milligrams per kilogram (mg/kg).
- NA = Not analyzed for this constituent.
- NE = No established IEPA SRO for this analyte.
- Samples were analyzed utilizing EPA Methods SW6020/3050B/7471/9012A and 9045C.
- G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
- Bkgd. Conc. Level = IEPA-established background concentration within Metropolitan Statistical Areas (MSAs).
- ☐ = Concentration exceeds soil component of the groundwater ing. exposure route for applicable Class I and/or Class II Tier 1 SRO.
- \*\*Chromium pH-specific SROs from migration to Class I groundwater for Chromium<sup>VI</sup>.
- For samples with pH above 9.0 or below 4.5, concentrations were compared to Tier 1 SROs in nearest range.

Table VII

Soil Analytical Results - pH-Specific Inorganics

Analyte	IEPA SROs								Bkgd.	Sample	B-205B (1-3)	B-206B (1-3)	B-206B (3-5)	B-207B (1-3)	B-207B (3-5)
	G.W. Ing. - pH-Specific SROs								Conc.	Date	11/29/18	11/29/18	11/29/18	11/29/18	11/29/18
	Class I				Class II				ADL	Level	Depth (ft)	1-3	1-3	3-5	1-3
pH	6.9-7.24	7.25-7.74	7.75-8.24	6.9-7.24	7.25-7.74	7.75-8.24	8.25-8.74		-		NA	NA	NA	NA	NA
Inorganics	Aluminum	NE	NE	NE	NE	NE	NE	*	9,500		NA	NA	NA	NA	NA
	Antimony	5	5	5	20	20	20	*	4		NA	NA	NA	NA	NA
	Arsenic	29	30	31	120	120	120	130	*	13	9.1	10	7.6	6.8	NA
	Barium	1,700	1,800	2,100	1700	1800	2100	NE	*	110	NA	NA	NA	NA	NA
	Beryllium	140	1,000	8,000	17000	130000	1000000	NE	*	0.59	NA	NA	NA	NA	NA
	Cadmium	11	59	430	110	590	4300	NE	*	0.6	NA	NA	NA	NA	NA
	Calcium	NE	NE	NE	NE	NE	NE	NE	*	9,300	NA	NA	NA	NA	NA
	Chromium**	36	32	28	NE	NE	NE	NE	*	16.2	NA	NA	NA	NA	NA
	Cobalt	NE	NE	NE	NE	NE	NE	NE	*	8.9	NA	NA	NA	NA	NA
	Copper	200,000	330,000	330,000	200,000	330,000	330,000	NE	*	19.6	NA	NA	NA	NA	NA
	Cyanide	40	40	40	120	120	120	120	*	0.51	NA	NA	NA	NA	NA
	Iron	NE	NE	NE	NE	NE	NE	NE	*	15,900	NA	19000	13000	16000	NA
	Lead	107	107	107	1,420	1,420	1,420	1,420	*	36	NA	330	8.4	14	110
	Magnesium	NE	NE	NE	NE	NE	NE	NE	*	4,820	NA	NA	NA	NA	NA
	Manganese	NE	NE	NE	NE	NE	NE	NE	*	636	NA	NA	NA	NA	NA
	Mercury	3.3	6.4	8	16	32	40	NE	*	0.06	NA	NA	NA	NA	NA
	Nickel	180	700	3,800	3500	14000	76000	NE	*	18	NA	NA	NA	NA	NA
	Potassium	NE	NE	NE	NE	NE	NE	NE	*	1,268	NA	NA	NA	NA	NA
	Selenium	4.5	3.3	2.4	4.5	3.3	2.4	1.8	*	0.48	NA	NA	NA	NA	NA
	Silver	13	39	110	NE	NE	NE	NE	*	0.55	NA	NA	NA	NA	NA
Sodium	NE	NE	NE	NE	NE	NE	NE	*	130	NA	NA	NA	NA	NA	
Thallium	3	3.4	3.8	30	34	38	44	*	0.32	NA	NA	NA	NA	NA	
Vanadium	980	980	980	NE	NE	NE	NE	*	25.2	NA	NA	NA	NA	NA	
Zinc	7,500	16,000	53,000	15000	32000	110000	NE	*	95	NA	NA	NA	NA	NA	

NOTES:

- All results expressed in milligrams per kilogram (mg/kg).
- NA = Not analyzed for this constituent.
- NE = No established IEPA SRO for this analyte.
- Samples were analyzed utilizing EPA Methods SW6020/3050B/7471/9012A and 9045C.
- G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
- Bkgd. Conc. Level = IEPA-established background concentration within Metropolitan Statistical Areas (MSAs).
- ☐ = Concentration exceeds soil component of the groundwater ing. exposure route for applicable Class I and/or Class II Tier 1 SRO.
- \*\*Chromium pH-specific SROs from migration to Class I groundwater for Chromium<sup>VI</sup>.
- For samples with pH above 9.0 or below 4.5, concentrations were compared to Tier 1 SROs in nearest range.

Table VII

## Soil Analytical Results - pH-Specific Inorganics

Analyte	IEPA SROs								Bkgd. Conc. Level	Sample Date Depth (ft)	B-208B (1-3) 11/29/18 1-3	B-208B (3-5) 11/29/18 3-5	B-209B (1-3) 11/29/18 1-3	B-209B (3-5) 11/29/18 3-5	B-210B (1-3) 11/29/18 1-3
	G.W. Ing. - pH-Specific SROs														
	Class I				Class II										
pH	6.9-7.24	7.25-7.74	7.75-8.24	6.9-7.24	7.25-7.74	7.75-8.24	8.25-8.74		-		NA	NA	NA	NA	NA
Inorganics	Aluminum	NE	NE	NE	NE	NE	NE	*	9,500		NA	NA	NA	NA	NA
	Antimony	5	5	5	20	20	20	*	4		NA	NA	NA	NA	NA
	Arsenic	29	30	31	120	120	120	130	*	13	15	5.2	9.4	5.8	9.8
	Barium	1,700	1,800	2,100	1700	1800	2100	NE	*	110	NA	NA	NA	NA	NA
	Beryllium	140	1,000	8,000	17000	130000	1000000	NE	*	0.59	NA	NA	NA	NA	NA
	Cadmium	11	59	430	110	590	4300	NE	*	0.6	NA	NA	NA	NA	NA
	Calcium	NE	NE	NE	NE	NE	NE	NE	*	9,300	NA	NA	NA	NA	NA
	Chromium**	36	32	28	NE	NE	NE	NE	*	16.2	NA	NA	NA	NA	NA
	Cobalt	NE	NE	NE	NE	NE	NE	NE	*	8.9	NA	NA	NA	NA	NA
	Copper	200,000	330,000	330,000	200,000	330,000	330,000	NE	*	19.6	NA	NA	NA	NA	NA
	Cyanide	40	40	40	120	120	120	120	*	0.51	NA	NA	NA	NA	NA
	Iron	NE	NE	NE	NE	NE	NE	NE	*	15,900	24000	1200	NA	NA	NA
	Lead	107	107	107	1,420	1,420	1,420	1,420	*	36	31	17	NA	NA	NA
	Magnesium	NE	NE	NE	NE	NE	NE	NE	*	4,820	NA	NA	NA	NA	NA
	Manganese	NE	NE	NE	NE	NE	NE	NE	*	636	NA	NA	NA	NA	NA
	Mercury	3.3	6.4	8	16	32	40	NE	*	0.06	NA	NA	NA	NA	NA
	Nickel	180	700	3,800	3500	14000	76000	NE	*	18	NA	NA	NA	NA	NA
	Potassium	NE	NE	NE	NE	NE	NE	NE	*	1,268	NA	NA	NA	NA	NA
	Selenium	4.5	3.3	2.4	4.5	3.3	2.4	1.8	*	0.48	NA	NA	NA	NA	NA
	Silver	13	39	110	NE	NE	NE	NE	*	0.55	NA	NA	NA	NA	NA
Sodium	NE	NE	NE	NE	NE	NE	NE	*	130	NA	NA	NA	NA	NA	
Thallium	3	3.4	3.8	30	34	38	44	*	0.32	NA	NA	NA	NA	NA	
Vanadium	980	980	980	NE	NE	NE	NE	*	25.2	NA	NA	NA	NA	NA	
Zinc	7,500	16,000	53,000	15000	32000	110000	NE	*	95	NA	NA	NA	NA	NA	

## NOTES:

- All results expressed in milligrams per kilogram (mg/kg).
- NA = Not analyzed for this constituent.
- NE = No established IEPA SRO for this analyte.
- Samples were analyzed utilizing EPA Methods SW6020/3050B/7471/9012A and 9045C.
- G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
- Bkgd. Conc. Level = IEPA-established background concentration within Metropolitan Statistical Areas (MSAs).
- ☐ = Concentration exceeds soil component of the groundwater ing. exposure route for applicable Class I and/or Class II Tier 1 SRO.
- \*\*Chromium pH-specific SROs from migration to Class I groundwater for Chromium<sup>VI</sup>.
- For samples with pH above 9.0 or below 4.5, concentrations were compared to Tier 1 SROs in nearest range.

Table VII

Soil Analytical Results - pH-Specific Inorganics

Analyte	IEPA SROs								Bkgd.	Sample	B-211B (1-3)	B-211B (3-5)	B-212B (1-3)	B-213B (1-3)	B-214B (1-3)	
	G.W. Ing. - pH-Specific SROs								Conc.	Date	11/29/18	11/29/18	11/29/18	11/29/18	11/29/18	
	Class I				Class II				ADL	Level	Depth (ft)	1-3	3-5	1-3	1-3	1-3
pH	6.9-7.24	7.25-7.74	7.75-8.24	6.9-7.24	7.25-7.74	7.75-8.24	8.25-8.74		-		NA	NA	NA	NA	NA	
Inorganics	Aluminum	NE	NE	NE	NE	NE	NE	*	9,500		NA	NA	NA	NA	NA	
	Antimony	5	5	5	20	20	20	*	4		NA	NA	NA	NA	NA	
	Arsenic	29	30	31	120	120	120	130	*	13	14	13	5.5	8.1	11	8.1
	Barium	1,700	1,800	2,100	1700	1800	2100	NE	*	110	NA	NA	NA	NA	NA	NA
	Beryllium	140	1,000	8,000	17000	130000	1000000	NE	*	0.59	NA	NA	NA	NA	NA	NA
	Cadmium	11	59	430	110	590	4300	NE	*	0.6	NA	NA	NA	NA	NA	NA
	Calcium	NE	NE	NE	NE	NE	NE	NE	*	9,300	NA	NA	NA	NA	NA	NA
	Chromium**	36	32	28	NE	NE	NE	NE	*	16.2	NA	NA	NA	NA	NA	NA
	Cobalt	NE	NE	NE	NE	NE	NE	NE	*	8.9	NA	NA	NA	NA	NA	NA
	Copper	200,000	330,000	330,000	200,000	330,000	330,000	NE	*	19.6	NA	NA	NA	NA	NA	NA
	Cyanide	40	40	40	120	120	120	120	*	0.51	NA	NA	NA	NA	NA	NA
	Iron	NE	NE	NE	NE	NE	NE	NE	*	15,900	NA	NA	NA	NA	NA	NA
	Lead	107	107	107	1,420	1,420	1,420	1,420	*	36	380	NA	NA	NA	NA	NA
	Magnesium	NE	NE	NE	NE	NE	NE	NE	*	4,820	NA	NA	NA	NA	NA	NA
	Manganese	NE	NE	NE	NE	NE	NE	NE	*	636	NA	NA	NA	NA	NA	NA
	Mercury	3.3	6.4	8	16	32	40	NE	*	0.06	NA	NA	NA	NA	NA	NA
	Nickel	180	700	3,800	3500	14000	76000	NE	*	18	NA	NA	NA	NA	NA	NA
	Potassium	NE	NE	NE	NE	NE	NE	NE	*	1,268	NA	NA	NA	NA	NA	NA
	Selenium	4.5	3.3	2.4	4.5	3.3	2.4	1.8	*	0.48	NA	NA	NA	NA	NA	NA
	Silver	13	39	110	NE	NE	NE	NE	*	0.55	NA	NA	NA	NA	NA	NA
Sodium	NE	NE	NE	NE	NE	NE	NE	*	130	NA	NA	NA	NA	NA	NA	
Thallium	3	3.4	3.8	30	34	38	44	*	0.32	NA	NA	NA	NA	NA	NA	
Vanadium	980	980	980	NE	NE	NE	NE	*	25.2	NA	NA	NA	NA	NA	NA	
Zinc	7,500	16,000	53,000	15000	32000	110000	NE	*	95	NA	NA	NA	NA	NA	NA	

NOTES:

- All results expressed in milligrams per kilogram (mg/kg).
- NA = Not analyzed for this constituent.
- NE = No established IEPA SRO for this analyte.
- Samples were analyzed utilizing EPA Methods SW6020/3050B/7471/9012A and 9045C.
- G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
- Bkgd. Conc. Level = IEPA-established background concentration within Metropolitan Statistical Areas (MSAs).
- ☐ = Concentration exceeds soil component of the groundwater ing. exposure route for applicable Class I and/or Class II Tier 1 SRO.
- \*\*Chromium pH-specific SROs from migration to Class I groundwater for Chromium<sup>VI</sup>.
- For samples with pH above 9.0 or below 4.5, concentrations were compared to Tier 1 SROs in nearest range.

Table VII

## Soil Analytical Results - pH-Specific Inorganics

Analyte	IEPA SROs								Bkgd. Conc. Level	Sample Date Depth (ft)	B-214 (3-5) 11/29/18 3-5	SB-1 03/09/99 1-3	SB-3 03/09/99 1.5-4	SB-4 03/09/99 1-3	SB-5 03/09/99 3-5	
	G.W. Ing. - pH-Specific SROs															ADL
	Class I				Class II											
pH	6.9-7.24	7.25-7.74	7.75-8.24	6.9-7.24	7.25-7.74	7.75-8.24	8.25-8.74		-		NA	NA	NA	NA	NA	
Inorganics	Aluminum	NE	NE	NE	NE	NE	NE	NE	*	9,500	NA	NA	NA	NA	NA	
	Antimony	5	5	5	20	20	20	20	*	4	NA	0.595	0.309	0.557	0.472	
	Arsenic	29	30	31	120	120	120	130	*	13	NA	6.81	5.93	0.53	15.1	
	Barium	1,700	1,800	2,100	1700	1800	2100	NE	*	110	NA	NA	NA	NA	NA	
	Beryllium	140	1,000	8,000	17000	130000	1000000	NE	*	0.59	NA	<1.0	<1.0	<1.0	<1.0	
	Cadmium	11	59	430	110	590	4300	NE	*	0.6	NA	2.2	2.27	2.69	3.07	
	Calcium	NE	NE	NE	NE	NE	NE	NE	*	9,300	NA	NA	NA	NA	NA	
	Chromium**	36	32	28	NE	NE	NE	NE	*	16.2	NA	11.5	9.98	13	12.2	
	Cobalt	NE	NE	NE	NE	NE	NE	NE	*	8.9	NA	NA	NA	NA	NA	
	Copper	200,000	330,000	330,000	200,000	330,000	330,000	NE	*	19.6	NA	15	12.3	16.2	7.18	
	Cyanide	40	40	40	120	120	120	120	*	0.51	NA	NA	NA	NA	NA	
	Iron	NE	NE	NE	NE	NE	NE	NE	*	15,900	NA	NA	NA	NA	NA	
	Lead	107	107	107	1,420	1,420	1,420	1,420	*	36	NA	37.1	137	135	16.8	
	Magnesium	NE	NE	NE	NE	NE	NE	NE	*	4,820	NA	NA	NA	NA	NA	
	Manganese	NE	NE	NE	NE	NE	NE	NE	*	636	NA	NA	NA	NA	NA	
	Mercury	3.3	6.4	8	16	32	40	NE	*	0.06	NA	<0.1	0.133	0.104	<0.1	
	Nickel	180	700	3,800	3500	14000	76000	NE	*	18	NA	7.11	6.97	11.9	11.4	
	Potassium	NE	NE	NE	NE	NE	NE	NE	*	1,268	NA	NA	NA	NA	NA	
	Selenium	4.5	3.3	2.4	4.5	3.3	2.4	1.8	*	0.48	NA	0.819	0.725	1.06	<0.2	
	Silver	13	39	110	NE	NE	NE	NE	*	0.55	NA	<1.0	<1.0	<1.0	<1.0	
Sodium	NE	NE	NE	NE	NE	NE	NE	*	130	NA	NA	NA	NA	NA		
Thallium	3	3.4	3.8	30	34	38	44	*	0.32	NA	<0.2	<0.2	<0.2	<0.2		
Vanadium	980	980	980	NE	NE	NE	NE	*	25.2	NA	NA	NA	NA	NA		
Zinc	7,500	16,000	53,000	15000	32000	110000	NE	*	95	NA	37.3	34.5	71.3	33.9		

## NOTES:

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- NA = Not analyzed for this constituent.
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- Samples were analyzed utilizing EPA Methods SW6020/3050B/7471/9012A and 9045C.
- G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
- Bkgd. Conc. Level = IEPA-established background concentration within Metropolitan Statistical Areas (MSAs).
- ☐ = Concentration exceeds soil component of the groundwater ing. exposure route for applicable Class I and/or Class II Tier 1 SRO.
- \*\*Chromium pH-specific SROs from migration to Class I groundwater for Chromium<sup>VI</sup>.
- For samples with pH above 9.0 or below 4.5, concentrations were compared to Tier 1 SROs in nearest range.

Table VII

## Soil Analytical Results - pH-Specific Inorganics

Analyte	IEPA SROs								Bkgd.	Sample	SB-6	SB-8	SB-9	SB-10	SB-11	
	G.W. Ing. - pH-Specific SROs								ADL	Conc.	Date	03/09/99	03/09/99	03/09/99	03/09/99	03/09/99
	Class I				Class II					Level	Depth (ft)	1-3	5-7	1-3	5-7	5-7
pH	6.9-7.24	7.25-7.74	7.75-8.24	6.9-7.24	7.25-7.74	7.75-8.24	8.25-8.74		-		NA	NA	NA	NA	NA	
Inorganics	Aluminum	NE	NE	NE	NE	NE	NE	*	9,500		NA	NA	NA	NA	NA	
	Antimony	5	5	5	20	20	20	*	4		<0.2	<0.2	0.57	0.863	0.615	
	Arsenic	29	30	31	120	120	120	130	*	13		5.81	12.6	9.67	10.9	11.1
	Barium	1,700	1,800	2,100	1700	1800	2100	NE	*	110		NA	NA	NA	NA	NA
	Beryllium	140	1,000	8,000	17000	130000	1000000	NE	*	0.59		<1.0	<1.0	<1.0	<1.0	<1.0
	Cadmium	11	59	430	110	590	4300	NE	*	0.6		<2.0	2.04	3.37	2.63	2.4
	Calcium	NE	NE	NE	NE	NE	NE	NE	*	9,300		NA	NA	NA	NA	NA
	Chromium**	36	32	28	NE	NE	NE	NE	*	16.2		11.2	10.6	12.5	10.6	9.92
	Cobalt	NE	NE	NE	NE	NE	NE	NE	*	8.9		NA	NA	NA	NA	NA
	Copper	200,000	330,000	330,000	200,000	330,000	330,000	NE	*	19.6		10.2	7.18	12.7	25.6	13.3
	Cyanide	40	40	40	120	120	120	120	*	0.51		NA	NA	NA	NA	<0.29
	Iron	NE	NE	NE	NE	NE	NE	NE	*	15,900		NA	NA	NA	NA	NA
	Lead	107	107	107	1,420	1,420	1,420	1,420	*	36		79.7	10.9	34.6	17.7	11.5
	Magnesium	NE	NE	NE	NE	NE	NE	NE	*	4,820		NA	NA	NA	NA	NA
	Manganese	NE	NE	NE	NE	NE	NE	NE	*	636		NA	NA	NA	NA	NA
	Mercury	3.3	6.4	8	16	32	40	NE	*	0.06		0.153	<0.1	<0.1	<0.1	<0.1
	Nickel	180	700	3,800	3500	14000	76000	NE	*	18		7.69	11.9	14	21.9	11.4
	Potassium	NE	NE	NE	NE	NE	NE	NE	*	1,268		NA	NA	NA	NA	NA
	Selenium	4.5	3.3	2.4	4.5	3.3	2.4	1.8	*	0.48		0.457	<0.2	>0.2	0.81	0.235
	Silver	13	39	110	NE	NE	NE	NE	*	0.55		<1.0	<1.0	<1.0	<1.0	<1.0
Sodium	NE	NE	NE	NE	NE	NE	NE	*	130		NA	NA	NA	NA	NA	
Thallium	3	3.4	3.8	30	34	38	44	*	0.32		<0.2	<0.2	<0.2	0.524	<0.2	
Vanadium	980	980	980	NE	NE	NE	NE	*	25.2		NA	NA	NA	NA	NA	
Zinc	7,500	16,000	53,000	15000	32000	110000	NE	*	95		27.1	41	46.4	65.6	55.8	

## NOTES:

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- G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
- Bkgd. Conc. Level = IEPA-established background concentration within Metropolitan Statistical Areas (MSAs).
- ☐ = Concentration exceeds soil component of the groundwater ing. exposure route for applicable Class I and/or Class II Tier 1 SRO.
- \*\*Chromium pH-specific SROs from migration to Class I groundwater for Chromium<sup>VI</sup>.
- For samples with pH above 9.0 or below 4.5, concentrations were compared to Tier 1 SROs in nearest range.

Table VII

Soil Analytical Results - pH-Specific Inorganics

Analyte	IEPA SROs								Bkgd.	Sample	SB-12
	G.W. Ing. - pH-Specific SROs								Conc.	Date	03/09/99
	Class I			Class II					ADL	Level	Depth (ft)
pH	6.9-7.24	7.25-7.74	7.75-8.24	6.9-7.24	7.25-7.74	7.75-8.24	8.25-8.74		-		NA
<b>Aluminum</b>	NE	NE	NE	NE	NE	NE	NE	*	9,500		NA
<b>Antimony</b>	5	5	5	20	20	20	20	*	4		0.442
<b>Arsenic</b>	29	30	31	120	120	120	130	*	13		16.9
<b>Barium</b>	1,700	1,800	2,100	1700	1800	2100	NE	*	110		NA
<b>Beryllium</b>	140	1,000	8,000	17000	130000	1000000	NE	*	0.59		<1.0
<b>Cadmium</b>	11	59	430	110	590	4300	NE	*	0.6		3.46
<b>Calcium</b>	NE	NE	NE	NE	NE	NE	NE	*	9,300		NA
<b>Chromium**</b>	36	32	28	NE	NE	NE	NE	*	16.2		14.1
<b>Cobalt</b>	NE	NE	NE	NE	NE	NE	NE	*	8.9		NA
<b>Copper</b>	200,000	330,000	330,000	200,000	330,000	330,000	NE	*	19.6		11.2
<b>Cyanide</b>	40	40	40	120	120	120	120	*	0.51		<0.31
<b>Iron</b>	NE	NE	NE	NE	NE	NE	NE	*	15,900		NA
<b>Lead</b>	107	107	107	1,420	1,420	1,420	1,420	*	36		13.6
<b>Magnesium</b>	NE	NE	NE	NE	NE	NE	NE	*	4,820		NA
<b>Manganese</b>	NE	NE	NE	NE	NE	NE	NE	*	636		NA
<b>Mercury</b>	3.3	6.4	8	16	32	40	NE	*	0.06		<0.1
<b>Nickel</b>	180	700	3,800	3500	14000	76000	NE	*	18		14.2
<b>Potassium</b>	NE	NE	NE	NE	NE	NE	NE	*	1,268		NA
<b>Selenium</b>	4.5	3.3	2.4	4.5	3.3	2.4	1.8	*	0.48		0.229
<b>Silver</b>	13	39	110	NE	NE	NE	NE	*	0.55		<1.0
<b>Sodium</b>	NE	NE	NE	NE	NE	NE	NE	*	130		NA
<b>Thallium</b>	3	3.4	3.8	30	34	38	44	*	0.32		<0.2
<b>Vanadium</b>	980	980	980	NE	NE	NE	NE	*	25.2		NA
<b>Zinc</b>	7,500	16,000	53,000	15000	32000	110000	NE	*	95		38.8

NOTES:

1. All results expressed in milligrams per kilogram (mg/kg).
2. NA = Not analyzed for this constituent.
3. NE = No established IEPA SRO for this analyte.
4. Samples were analyzed utilizing EPA Methods SW6020/3050B/7471/9012A and 9045C.
5. G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
6. Bkgd. Conc. Level = IEPA-established background concentration within Metropolitan Statistical Areas (MSAs).
7. [Blue shaded cell] = Concentration exceeds soil component of the groundwater ing. exposure route for applicable Class I and/or Class II Tier 1 SRO.
8. \*\*Chromium pH-specific SROs from migration to Class I groundwater for Chromium<sup>VI</sup>.
9. For samples with pH above 9.0 or below 4.5, concentrations were compared to Tier 1 SROs in nearest range.



Table VIII

Soil Analytical Results - SPLP & TCLP Inorganics

Analyte	IEPA SROs		Toxicity Characteristic	Sample	B-104B (1-3)	B-105B (1-3)	B-105B (3-5)	B-106B (1-3)	B-107B (1-3)	B-109B (1-3)	B-109B (3-5)
	G.W. Ing.			Date	11/12/18	11/12/18	11/12/18	10/16/18	10/16/18	11/12/18	11/12/18
	Class I	Class II		Depth (ft)	1-3	1-3	3-5	1-3	1-3	1-3	3-5
pH					7.9	7.9	7.5	7.6	7.1	7.7	7.7
SPLP	Aluminum	3.5	5.0	NE	NA	NA	NA	NA	NA	NA	NA
	Chromium	0.1	1.0	NE	NA	NA	NA	NA	NA	NA	NA
	Chromium, hexavalent	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
	Cobalt	1.0	1.0	NE	NA	NA	NA	NA	NA	NA	NA
	Iron	5.0	5.0	NE	NA	NA	NA	NA	NA	NA	NA
	Lead	0.0075	0.1	NE	0.042	NA	NA	NA	NA	NA	NA
	Magnesium	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
	Manganese	0.15	10	NE	NA	NA	NA	NA	NA	NA	NA
TCLP	Aluminum	-	-	NE	NA	NA	NA	NA	NA	NA	NA
	Iron	-	-	NE	NA	NA	NA	NA	NA	NA	NA
	Lead	0.0075	0.1	5.0	0.11	NA	NA	NA	NA	NA	NA

NOTES:

1. All results expressed in milligrams per liter (mg/L).
2. NA = Not analyzed for this constituent.
3. NE = No established IEPA SRO for this analyte.
4. Samples were analyzed utilizing EPA Methods 6020/1311/1312/7470A and 9045C.
5. G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
6. [Blue Box] = Concentration exceeds the Tier 1 SRO for Class I and/or Class II G.W. Ing.
7. SPLP = Synthetic Precipitation Leaching Procedure inorganic analyte concentration.
8. TCLP = Toxicity Characteristic Leaching Procedure inorganic analyte concentration.
9. "-" = G.W. Ing. was addressed through SPLP; TCLP used for toxicity determination.

Table VIII

Soil Analytical Results - SPLP & TCLP Inorganics

Analyte	IEPA SROs		Toxicity Characteristic	Sample	B-110B (1-3)	B-110B (3-5)	B-111B (1-3)	B-114B (1-3)	B-114B (3-5)	B-115B (1-3)	B-115B (3-5)
	G.W. Ing.			Date	11/12/18	11/12/18	10/16/18	11/13/18	11/13/18	11/13/18	11/13/18
	Class I	Class II		Depth (ft)	1-3	3-5	1-3	1-3	3-5	1-3	3-5
pH					7.7	7.8	7.1	8.2	7.4	7.9	7.3
SPLP	Aluminum	3.5	5.0	NE	NA	NA	NA	NA	NA	NA	NA
	Chromium	0.1	1.0	NE	NA	NA	NA	0.0048	NA	NA	NA
	Chromium, hexavalent	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
	Cobalt	1.0	1.0	NE	NA	NA	NA	NA	NA	NA	NA
	Iron	5.0	5.0	NE	NA	NA	NA	NA	NA	NA	NA
	Lead	0.0075	0.1	NE	NA	0.0087	NA	NA	NA	NA	NA
	Magnesium	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
	Manganese	0.15	10	NE	NA	NA	NA	NA	NA	NA	NA
TCLP	Aluminum	-	-	NE	NA	NA	NA	NA	NA	NA	NA
	Iron	-	-	NE	NA	NA	NA	NA	NA	NA	NA
	Lead	0.0075	0.1	5.0	NA	0.19	NA	NA	NA	NA	NA

NOTES:

1. All results expressed in milligrams per liter (mg/L).
2. NA = Not analyzed for this constituent.
3. NE = No established IEPA SRO for this analyte.
4. Samples were analyzed utilizing EPA Methods 6020/1311/1312/7470A and 9045C.
5. G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
6. [Blue Box] = Concentration exceeds the Tier 1 SRO for Class I and/or Class II G.W. Ing.
7. SPLP = Synthetic Precipitation Leaching Procedure inorganic analyte concentration.
8. TCLP = Toxicity Characteristic Leaching Procedure inorganic analyte concentration.
9. "-" = G.W. Ing. was addressed through SPLP; TCLP used for toxicity determination.

Table VIII

Soil Analytical Results - SPLP & TCLP Inorganics

Analyte	IEPA SROs		Toxicity Characteristic	Sample	B-116B (1-3)	B-116B (3-5)	B-117B (1-3)	B-117B (3-5)	B-118B (1-3)	B-118B (3-5)	B-205B (1-3)
	G.W. Ing.			Date	11/12/18	11/12/18	11/13/18	11/13/18	11/13/18	11/13/18	11/13/18
	Class I	Class II		Depth (ft)	1-3	3-5	1-3	3-5	1-3	3-5	1-3
pH					7.5	7.3	7.9	7.3	8.1	7.3	NA
SPLP	Aluminum	3.5	5.0	NE	NA	NA	NA	NA	NA	NA	NA
	Chromium	0.1	1.0	NE	NA	NA	NA	NA	NA	NA	NA
	Chromium, hexavalent	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
	Cobalt	1.0	1.0	NE	NA	NA	NA	NA	NA	NA	NA
	Iron	5.0	5.0	NE	0.97	NA	NA	NA	NA	NA	NA
	Lead	0.0075	0.1	NE	NA	NA	NA	NA	NA	NA	NA
	Magnesium	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
	Manganese	0.15	10	NE	NA	NA	NA	NA	NA	NA	NA
TCLP	Aluminum	-	-	NE	NA	NA	NA	NA	NA	NA	NA
	Iron	-	-	NE	<0.25	NA	NA	NA	NA	NA	NA
	Lead	0.0075	0.1	5.0	NA	NA	NA	NA	NA	NA	NA

NOTES:

1. All results expressed in milligrams per liter (mg/L).
2. NA = Not analyzed for this constituent.
3. NE = No established IEPA SRO for this analyte.
4. Samples were analyzed utilizing EPA Methods 6020/1311/1312/7470A and 9045C.
5. G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
6. [Redacted] = Concentration exceeds the Tier 1 SRO for Class I and/or Class II G.W. Ing.
7. SPLP = Synthetic Precipitation Leaching Procedure inorganic analyte concentration.
8. TCLP = Toxicity Characteristic Leaching Procedure inorganic analyte concentration.
9. "-" = G.W. Ing. was addressed through SPLP; TCLP used for toxicity determination.

Table VIII

Soil Analytical Results - SPLP & TCLP Inorganics

Analyte	IEPA SROs		Toxicity Characteristic	Sample	B-206B (1-3)	B-206B (3-5)	B-207B (1-3)	B-207B (3-5)	B-208B (1-3)	B-208B (3-5)	B-209B (1-3)
	G.W. Ing.			Date	11/29/18	11/29/18	11/29/18	11/29/18	11/29/18	11/29/18	11/29/18
	Class I	Class II		Depth (ft)	1-3	3-5	1-3	3-5	1-3	3-5	1-3
pH					NA	NA	NA	NA	NA	NA	NA
SPLP	Aluminum	3.5	5.0	NE	NA	NA	NA	NA	NA	NA	NA
	Chromium	0.1	1.0	NE	NA	NA	NA	NA	NA	NA	NA
	Chromium, hexavalent	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
	Cobalt	1.0	1.0	NE	NA	NA	NA	NA	NA	NA	NA
	Iron	5.0	5.0	NE	NA	NA	NA	NA	NA	NA	NA
	Lead	0.0075	0.1	NE	NA	NA	NA	NA	NA	NA	NA
	Magnesium	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
	Manganese	0.15	10	NE	NA	NA	NA	NA	NA	NA	NA
TCLP	Aluminum	-	-	NE	NA	NA	NA	NA	NA	NA	NA
	Iron	-	-	NE	NA	NA	NA	NA	NA	NA	NA
	Lead	0.0075	0.1	5.0	NA	NA	NA	NA	NA	NA	NA

NOTES:

1. All results expressed in milligrams per liter (mg/L).
2. NA = Not analyzed for this constituent.
3. NE = No established IEPA SRO for this analyte.
4. Samples were analyzed utilizing EPA Methods 6020/1311/1312/7470A and 9045C.
5. G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
6. [Redacted] = Concentration exceeds the Tier 1 SRO for Class I and/or Class II G.W. Ing.
7. SPLP = Synthetic Precipitation Leaching Procedure inorganic analyte concentration.
8. TCLP = Toxicity Characteristic Leaching Procedure inorganic analyte concentration.
9. "-" = G.W. Ing. was addressed through SPLP; TCLP used for toxicity determination.

Table VIII

Soil Analytical Results - SPLP & TCLP Inorganics

Analyte	IEPA SROs		Toxicity Characteristic	Sample	B-209B (3-5)	B-210B (1-3)	B-211B (1-3)	B-211B (3-5)	B-212B (1-3)	B-213B (1-3)	B-214B (1-3)
	G.W. Ing.			Date	11/29/18	11/29/18	11/29/18	11/29/18	11/29/18	11/29/18	11/29/18
	Class I	Class II		Depth (ft)	3-5	1-3	1-3	3-5	1-3	1-3	1-3
pH					NA	NA	NA	NA	NA	NA	NA
SPLP	Aluminum	3.5	5.0	NE	NA	NA	NA	NA	NA	NA	NA
	Chromium	0.1	1.0	NE	NA	NA	NA	NA	NA	NA	NA
	Chromium, hexavalent	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
	Cobalt	1.0	1.0	NE	NA	NA	NA	NA	NA	NA	NA
	Iron	5.0	5.0	NE	NA	NA	NA	NA	NA	NA	NA
	Lead	0.0075	0.1	NE	NA	NA	NA	NA	NA	NA	NA
	Magnesium	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
	Manganese	0.15	10	NE	NA	NA	NA	NA	NA	NA	NA
TCLP	Aluminum	-	-	NE	NA	NA	NA	NA	NA	NA	NA
	Iron	-	-	NE	NA	NA	NA	NA	NA	NA	NA
	Lead	0.0075	0.1	5.0	NA	NA	NA	NA	NA	NA	NA

NOTES:

1. All results expressed in milligrams per liter (mg/L).
2. NA = Not analyzed for this constituent.
3. NE = No established IEPA SRO for this analyte.
4. Samples were analyzed utilizing EPA Methods 6020/1311/1312/7470A and 9045C.
5. G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
6. [Redacted] = Concentration exceeds the Tier 1 SRO for Class I and/or Class II G.W. Ing.
7. SPLP = Synthetic Precipitation Leaching Procedure inorganic analyte concentration.
8. TCLP = Toxicity Characteristic Leaching Procedure inorganic analyte concentration.
9. "-" = G.W. Ing. was addressed through SPLP; TCLP used for toxicity determination.

Table VIII

Soil Analytical Results - SPLP & TCLP Inorganics

Analyte	IEPA SROs		Toxicity Characteristic	Sample	B-214 (3-5)	SB-1	SB-3	SB-4	SB-5	SB-6	SB-8
	G.W. Ing.			Date	11/29/18	03/09/99	03/09/99	03/09/99	03/09/99	03/09/99	03/09/99
	Class I	Class II		Depth (ft)	3-5	1-3	1.5-4	1-3	3-5	1-3	5-7
pH						NA	NA	NA	NA	NA	NA
SPLP	Aluminum	3.5	5.0	NE	NA	NA	NA	NA	NA	NA	NA
	Chromium	0.1	1.0	NE	NA	NA	NA	NA	NA	NA	NA
	Chromium, hexavalent	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
	Cobalt	1.0	1.0	NE	NA	NA	NA	NA	NA	NA	NA
	Iron	5.0	5.0	NE	NA	NA	NA	NA	NA	NA	NA
	Lead	0.0075	0.1	NE	NA	NA	NA	NA	NA	NA	NA
	Magnesium	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
	Manganese	0.15	10	NE	NA	NA	NA	NA	NA	NA	NA
TCLP	Aluminum	-	-	NE	NA	NA	NA	NA	NA	NA	NA
	Iron	-	-	NE	NA	NA	NA	NA	NA	NA	NA
	Lead	0.0075	0.1	5.0	NA	NA	NA	NA	NA	NA	NA

NOTES:

1. All results expressed in milligrams per liter (mg/L).
2. NA = Not analyzed for this constituent.
3. NE = No established IEPA SRO for this analyte.
4. Samples were analyzed utilizing EPA Methods 6020/1311/1312/7470A and 9045C.
5. G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
6. [Redacted] = Concentration exceeds the Tier 1 SRO for Class I and/or Class II G.W. Ing.
7. SPLP = Synthetic Precipitation Leaching Procedure inorganic analyte concentration.
8. TCLP = Toxicity Characteristic Leaching Procedure inorganic analyte concentration.
9. "-" = G.W. Ing. was addressed through SPLP; TCLP used for toxicity determination.

Table VIII

Soil Analytical Results - SPLP & TCLP Inorganics

Analyte	IEPA SROs		Toxicity Characteristic	Sample	SB-9	SB-10	SB-11	SB-12
	G.W. Ing.			Date	03/09/99	03/09/99	03/09/99	03/09/99
	Class I	Class II		Depth (ft)	1-3	5-7	5-7	3-5
pH					NA	NA	NA	NA
SPLP	Aluminum	3.5	5.0	NE	NA	NA	NA	NA
	Chromium	0.1	1.0	NE	NA	NA	NA	NA
	Chromium, hexavalent	NE	NE	NE	NA	NA	NA	NA
	Cobalt	1.0	1.0	NE	NA	NA	NA	NA
	Iron	5.0	5.0	NE	NA	NA	NA	NA
	Lead	0.0075	0.1	NE	NA	NA	NA	NA
	Magnesium	NE	NE	NE	NA	NA	NA	NA
	Manganese	0.15	10	NE	NA	NA	NA	NA
TCLP	Aluminum	-	-	NE	NA	NA	NA	NA
	Iron	-	-	NE	NA	NA	NA	NA
	Lead	0.0075	0.1	5.0	NA	NA	NA	NA

NOTES:

1. All results expressed in milligrams per liter (mg/L).
2. NA = Not analyzed for this constituent.
3. NE = No established IEPA SRO for this analyte.
4. Samples were analyzed utilizing EPA Methods 6020/1311/1312/7470A and 9045C.
5. G.W. Ing. = Soil Component of the Groundwater Ingestion Exposure Route.
6. [ ] = Concentration exceeds the Tier 1 SRO for Class I and/or Class II G.W. Ing.
7. SPLP = Synthetic Precipitation Leaching Procedure inorganic analyte concentration.
8. TCLP = Toxicity Characteristic Leaching Procedure inorganic analyte concentration.
9. "-" = G.W. Ing. was addressed through SPLP; TCLP used for toxicity determination.

Table IX

Soil Analytical Results - TPH

TPH	Analyte	SRO	Sample Date Depth (ft)	B-104B (1-3)	B-105B (1-3)	B-105B (3-5)	B-106B (1-3)	B-107B (1-3)	B-109B (1-3)	B-109B (3-5)	B-110B (1-3)	B-110B (3-5)
				11/12/18	11/12/18	11/12/18	10/16/18	10/16/18	11/12/18	11/12/18	11/12/18	11/12/18
				1-3	1-3	3-5	1-3	1-3	1-3	3-5	1-3	3-5
	Gasoline Range Organics (GRO)	NE		NA	< 22	< 20	NA	NA	NA	NA	NA	NA
	Diesel Range Organics (DRO)	NE		NA	< 22	< 20	NA	NA	NA	NA	NA	NA
	Extended Range Organics (ERO)	NE		NA	< 22	< 20	NA	NA	NA	NA	NA	NA
	<b>Total</b>	2000		NA	< 66	< 60	NA	NA	NA	NA	NA	NA

NOTES:

1. All results expressed in milligrams per kilogram (mg/kg).
2. NE = No established IEPA SRO for this analyte.
3. Samples were analyzed by EPA Method SW-8015M/3580A.
4. **Bold values** = Concentration exceeds default attenuation capacity.



Table IX

Soil Analytical Results - TPH

TPH	Analyte	SRO	Sample Date Depth (ft)	B-111B (1-3)	B-114B (1-3)	B-114B (3-5)	B-115B (1-3)	B-115B (3-5)	B-116B (1-3)	B-116B (3-5)	B-117B (1-3)	B-117B (3-5)
				10/16/18	11/13/18	11/13/18	11/13/18	11/13/18	11/12/18	11/12/18	11/13/18	11/13/18
				1-3	1-3	3-5	1-3	3-5	1-3	3-5	1-3	3-5
	Gasoline Range Organics (GRO)	NE		NA	NA	NA	NA	NA	< 23	< 25	NA	NA
	Diesel Range Organics (DRO)	NE		NA	NA	NA	NA	NA	< 23	< 25	NA	NA
	Extended Range Organics (ERO)	NE		NA	NA	NA	NA	NA	< 23	< 25	NA	NA
	<b>Total</b>	2000		NA	NA	NA	NA	NA	< 69	< 75	NA	NA

NOTES:

1. All results expressed in milligrams per kilogram (mg/kg).
2. NE = No established IEPA SRO for this analyte.
3. Samples were analyzed by EPA Method SW-8015M/3580A.
4. **Bold values** = Concentration exceeds default attenuation capacity.

Table IX

Soil Analytical Results - TPH

Analyte	SRO	Sample Date	B-118B (1-3)	B-118B (3-5)	B-205B (1-3)	B-206B (1-3)	B-206B (3-5)	B-207B (1-3)	B-208B (1-3)	B-208B (3-5)	B-209B (1-3)
			11/13/18	11/13/18	11/29/18	11/29/18	11/29/18	11/29/18	11/29/18	11/29/18	11/29/18
Depth (ft)			1-3	3-5	1-3	1-3	3-5	1-3	1-3	3-5	1-3
TPH	Gasoline Range Organics (GRO)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Diesel Range Organics (DRO)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Extended Range Organics (ERO)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Total	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:

1. All results expressed in milligrams per kilogram (mg/kg).
2. NE = No established IEPA SRO for this analyte.
3. Samples were analyzed by EPA Method SW-8015M/3580A.
4. **Bold values** = Concentration exceeds default attenuation capacity.

Table IX

Soil Analytical Results - TPH

Analyte	SRO	Sample Date	B-209B (3-5)	B-210B (1-3)	B-211B (1-3)	B-211B (3-5)	B-212B (1-3)	B-213B (1-3)	B-214B (1-3)	B-214 (3-5)	SB-1	SB-3	
			11/29/18	11/29/18	11/29/18	11/29/18	11/29/18	11/29/18	11/29/18	11/29/18	11/29/18	3/9/99	3/9/99
			Depth (ft)	3-5	1-3	1-3	3-5	1-3	1-3	1-3	3-5	1-3	1.5-4
Gasoline Range Organics (GRO)	NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Diesel Range Organics (DRO)	NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Extended Range Organics (ERO)	NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Total</b>	2000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

NOTES:

1. All results expressed in milligrams per kilogram (mg/kg).
2. NE = No established IEPA SRO for this analyte.
3. Samples were analyzed by EPA Method SW-8015M/3580A.
4. **Bold values** = Concentration exceeds default attenuation capacity.

Table IX

Soil Analytical Results - TPH

PT	Analyte	SRO	Sample Date	SB-4	SB-5	SB-6	SB-8	SB-9	SB-10	SB-11	SB-12
			3/9/99	3/9/99	3/9/99	3/9/99	3/9/99	3/9/99	3/9/99	3/9/99	3/9/99
			Depth (ft)	1-3	3-5	1-3	5-7	1-3	5-7	5-7	3-5
	Gasoline Range Organics (GRO)	NE		NA	NA	NA	NA	NA	NA	NA	NA
	Diesel Range Organics (DRO)	NE		NA	NA	NA	NA	NA	NA	NA	NA
	Extended Range Organics (ERO)	NE		NA	NA	NA	NA	NA	NA	NA	NA
	<b>Total</b>	2000		NA	NA	NA	NA	NA	NA	NA	NA

NOTES:

1. All results expressed in milligrams per kilogram (mg/kg).
2. NE = No established IEPA SRO for this analyte.
3. Samples were analyzed by EPA Method SW-8015M/3580A.
4. **Bold values** = Concentration exceeds default attenuation capacity.

Table X

## Groundwater Analytical Results - VOCs

Analyte	IEPA GRO's						ADL	Sample Date	MW-105B 11/12/18	MW-116B 11/12/18
	G.W. Ing.		Diffusion & Advection		Diffusion Only					
	Class I	Class II	Residential	Ind./Com.	Residential	Ind./Com.				
Acetone	6.3	6.3	1000000	1000000	1000000	1000000	NE		< 0.020	< 0.020
Benzene	0.005	0.025	0.11	0.41	0.41	2.6	NE		< 0.0050	< 0.0050
Bromodichloromethane	0.0002	0.0002	6700	6700	6700	6700	NE		< 0.0050	< 0.0050
Bromoform	0.001	0.001	3.1	12	170	1300	NE		< 0.0050	< 0.0050
Bromomethane	0.0098	0.049	1.5	4.8	6.1	33	NE		< 0.010	< 0.010
2-Butanone (MEK)	4.2	4.2	10000	48000	220000	220000	NE		< 0.020	< 0.020
Carbon disulfide	0.7	3.5	67	210	170	820	NE		< 0.010	< 0.010
Carbon tetrachloride	0.005	0.025	0.02	0.076	0.052	0.31	0.0001		< 0.0050	< 0.0050
Chlorobenzene	0.1	0.5	26	82	130	470	NE		< 0.0050	< 0.0050
Chloroethane	NE	NE	NE	NE	NE	NE	NE		< 0.010	< 0.010
Chloroform	0.0002	0.001	0.07	0.15	0.17	1.1	NE		< 0.0050	< 0.0050
Chloromethane	NE	NE	NE	NE	NE	NE	NE		< 0.010	< 0.010
Dibromochloromethane	0.14	0.14	2600	2600	2600	2600	NE		< 0.0050	< 0.0050
1,1-Dichloroethane	0.7	3.5	180	580	750	4100	NE		< 0.0050	< 0.0050
1,2-Dichloroethane	0.005	0.025	0.054	0.22	0.5	3.5	0.0003		< 0.0050	< 0.0050
1,1-Dichloroethene	0.007	0.035	24	74	61	300	NE		< 0.0050	< 0.0050
cis-1,2-Dichloroethene	0.07	0.2	3500	3500	3500	3500	NE		< 0.0050	< 0.0050
trans-1,2-Dichloroethene	0.1	0.5	16	51	58	310	NE		< 0.0050	< 0.0050
1,2-Dichloropropane	0.005	0.025	0.12	0.48	0.67	4.5	0.00006		< 0.0050	< 0.0050
cis-1,3-Dichloropropene	0.001	0.005	0.14	0.52	0.42	2.6	NE		< 0.0010	< 0.0010
trans-1,3-Dichloropropene	0.001	0.005	0.14	0.52	0.42	2.6	NE		< 0.0010	< 0.0010
Ethylbenzene	0.7	1	0.37	1.4	1.3	8.1	NE		< 0.0050	< 0.0050
2-Hexanone	NE	NE	NE	NE	NE	NE	NE		< 0.020	< 0.020
4-Methyl-2-pentanone (Methyl isobutyl ketone )	NE	NE	NE	NE	NE	NE	NE		< 0.020	< 0.020
Methylene chloride	0.005	0.05	2.1	8.2	12	84	NE		< 0.0050	< 0.0050
Methyl tert-butyl ether	0.07	0.07	1900	6800	30000	51000	NE		< 0.0050	< 0.0050
Styrene	0.1	0.5	310	310	310	310	NE		< 0.0050	< 0.0050
1,1,1,2-Tetrachloroethane	0.42	0.42	NE	NE	0	0	NE		< 0.0050	< 0.0050
Tetrachloroethene	0.005	0.025	0.091	0.34	0.26	1.6	0.0004		< 0.0050	< 0.0050
Toluene	1	2.5	530	530	530	530	NE		< 0.0050	< 0.0050
1,1,1-Trichloroethane	0.2	1	1000	1300	1300	1300	NE		< 0.0050	< 0.0050
1,1,2-Trichloroethane	0.005	0.05	4400	4400	4400	4400	NE		< 0.0050	< 0.0050
Trichloroethene	0.005	0.025	0.34	1.3	1.1	6.7	NE		< 0.0050	< 0.0050
Vinyl chloride	0.002	0.01	0.028	0.21	0.065	0.75	0.0002		< 0.0020	< 0.0020
Xylenes, Total	10	10	30	93	96	110	NE		< 0.015	< 0.015

## Notes:

- All results expressed in milligrams per liter (mg/L).
- NA = Not analyzed for this constituent.
- NE = No established IEPA GRO for this analyte.
- Samples were analyzed by EPA Method 8260.
- Diffusion & Advection and Diffusion Only GROs apply to Indoor Inhalation exposure route.
- Ind./Com. = Industrial/Commercial property use scenario.
- Bold values** = Concentration exceeds IEPA Class I G.W. Ing. GRO.
- ▲** = Concentration exceeds IEPA Class II G.W. Ing. GRO.
- ▲** = Concentration exceeds IEPA Indoor Inhalation GRO(s).

Table XI

Groundwater Analytical Results - SVOCs

Analyte	IEPA GRO's						ADL	Sample Date	MW-105B 11/12/18	MW-116B 11/12/18
	G.W. Ing.		Diffusion & Advection		Diffusion Only					
	Class I	Class II	Residential	Ind./Com.	Residential	Ind./Com.				
Aniline	0.023	0.023	NE	NE	NE	NE	NE	< 0.0050	< 0.0050	
Benzidine	3.7E-07	3.7E-07	NE	NE	NE	NE	NE	< 0.0050	< 0.0050	
Benzoic acid	28	28	NE	NE	NE	NE	NE	< 0.025	< 0.025	
Benzyl alcohol	3.5	3.5	NE	NE	NE	NE	NE	< 0.0050	< 0.0050	
Bis(2-chloroethoxy)methane	NE	NE	NE	NE	NE	NE	NE	< 0.0050	< 0.0050	
Bis(2-chloroethyl)ether	0.01	0.01	0.083	0.43	6.6	48	0.01	< 0.0050	< 0.0050	
Bis(2-ethylhexyl)phthalate	0.006	0.06	NE	NE	NE	NE	0.0027	< 0.0050	< 0.0050	
4-Bromophenyl phenyl ether	NE	NE	NE	NE	NE	NE	NE	< 0.0050	< 0.0050	
Butyl benzyl phthalate	1.4	7	NE	NE	NE	NE	NE	< 0.0050	< 0.0050	
Carbazole	---	---	NE	NE	NE	NE	NA	< 0.00050	< 0.00050	
4-Chloroaniline	0.028	0.028	NE	NE	NE	NE	NE	< 0.0050	< 0.0050	
4-Chloro-3-methylphenol	NE	NE	NE	NE	NE	NE	NE	< 0.0050	< 0.0050	
2-Chloronaphthalene (beta-Chloronaphthalene)	0.56	2.8	NE	NE	NE	NE	NE	< 0.0050	< 0.0050	
2-Chlorophenol	0.035	0.035	22000	22000	22000	22000	NE	< 0.0050	< 0.0050	
4-Chlorophenyl phenyl ether	NE	NE	NE	NE	NE	NE	NE	< 0.0050	< 0.0050	
Dibenzofuran	NE	NE	NE	NE	NE	NE	NE	< 0.0050	< 0.0050	
1,2-Dichlorobenzene	0.6	1.5	140	160	160	160	NE	< 0.0050	< 0.0050	
1,3-Dichlorobenzene	NE	NE	NE	NE	NE	NE	NE	< 0.0050	< 0.0050	
1,4-Dichlorobenzene	0.075	0.375	79	79	79	79	NE	< 0.0050	< 0.0050	
3,3'-Dichlorobenzidine	0.02	0.1	NE	NE	NE	NE	0.02	< 0.010	< 0.010	
2,4-Dichlorophenol	0.021	0.021	NE	NE	NE	NE	NE	< 0.0050	< 0.0050	
Diethyl phthalate	5.6	5.6	NE	NE	NE	NE	NE	< 0.0050	< 0.0050	
2,4-Dimethylphenol	0.14	0.14	NE	NE	NE	NE	NE	< 0.0050	< 0.0050	
Dimethyl phthalate	NE	NE	NE	NE	NE	NE	NE	< 0.0050	< 0.0050	
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	0.0007	0.0007	NE	NE	NE	NE	NE	< 0.025	< 0.025	
2,4-Dinitrophenol	0.014	0.014	NE	NE	NE	NE	NE	< 0.025	< 0.025	
2,4-Dinitrotoluene	0.00002	0.00002	NE	NE	NE	NE	NE	< 0.00010	< 0.00010	
2,6-Dinitrotoluene	0.00031	0.00031	NE	NE	NE	NE	0.00031	< 0.00010	< 0.00010	
Di-n-butyl phthalate	0.7	3.5	NE	NE	NE	NE	NE	< 0.0050	< 0.0050	
Di-n-octyl phthalate	0.14	0.7	NE	NE	NE	NE	NE	< 0.0050	< 0.0050	
Hexachlorobenzene	0.00006	0.0003	0.0059	0.0062	0.0062	0.0062	0.00006	< 0.0050	< 0.0050	

SVOCs

Table XI

Groundwater Analytical Results - SVOCs

Analyte	IEPA GRO's						ADL	Sample Date	MW-105B 11/12/18	MW-116B 11/12/18
	G.W. Ing.		Diffusion & Advection		Diffusion Only					
	Class I	Class II	Residential	Ind./Com.	Residential	Ind./Com.				
Hexachlorobutadiene	0.007	0.035	NE	NE	NE	NE	NE	< 0.0050	< 0.0050	
Hexachlorocyclopentadiene	0.05	0.5	0.084	0.26	0.29	1.5	NE	< 0.0050	< 0.0050	
Hexachloroethane	0.007	0.035	50	50	50	50	NE	< 0.0050	< 0.0050	
Isophorone	1.4	1.4	12000	12000	12000	12000	NE	< 0.0050	< 0.0050	
2-Methylnaphthalene	0.028	0.14	25	25	25	25	NE	< 0.0050	< 0.0050	
2-Methylphenol	0.35	0.35	26000	26000	26000	26000	NE	< 0.0050	< 0.0050	
4-Methylphenol	0.035	0.035	NE	NE	NE	NE	NE	< 0.0050	< 0.0050	
2-Nitroaniline	0.105	0.105	NE	NE	NE	NE	NE	< 0.025	< 0.025	
3-Nitroaniline	0.0021	0.0021	NE	NE	NE	NE	NE	< 0.025	< 0.025	
4-Nitroaniline	0.021	0.021	NE	NE	NE	NE	NE	< 0.025	< 0.025	
2-Nitrophenol	NE	NE	NE	NE	NE	NE	NE	< 0.0050	< 0.0050	
4-Nitrophenol	0.056	0.056	NE	NE	NE	NE	NE	< 0.025	< 0.025	
Nitrobenzene	0.0035	0.0035	0.34	2	23	170	NE	< 0.0010	< 0.0010	
N-Nitrosodi-n-propylamine	0.0018	0.0018	0.044	0.27	3.3	24	0.0018	< 0.00010	< 0.00010	
N-Nitrosodimethylamine	0.0006	0.0006	NE	NE	NE	NE	NE	< 0.0050	< 0.0050	
N-Nitrosodiphenylamine	0.0032	0.016	NE	NE	NE	NE	NE	< 0.0050	< 0.0050	
2, 2'-oxybis(1-Chloropropane) (Bis(2-chloroisopropyl)ether)	0.28	0.28	NE	NE	NE	NE	NE	< 0.0050	< 0.0050	
Pentachlorophenol	0.001	0.005	NE	NE	NE	NE	0.000076	< 0.00050	< 0.00050	
Phenol	0.1	0.1	28000	83000	83000	83000	NE	< 0.0050	< 0.0050	
Pyridine	0.007	0.007	NE	NE	NE	NE	NE	< 0.0050	< 0.0050	
1,2,4-Trichlorobenzene	0.07	0.7	1.8	5.9	35	35	NE	< 0.0050	< 0.0050	
2,4,5-Trichlorophenol	0.7	0.7	NE	NE	NE	NE	NE	< 0.010	< 0.010	
2,4,6-Trichlorophenol	0.01	0.01	NE	NE	NE	NE	0.01	< 0.0050	< 0.0050	

Notes:

1. All results expressed in milligrams per liter (mg/L).
2. NA = Not analyzed for this constituent.
3. NE = No established IEPA GRO for this analyte.
4. Samples were analyzed by EPA Method 8270C (3510C).
5. *Diffusion & Advection* and *Diffusion Only* GROs apply to Indoor Inhalation exposure route.
6. Ind./Com. = Industrial/Commercial property use scenario.
7. **Bold values** = Concentration exceeds IEPA Class I G.W. Ing. GRO.
8.   = Concentration exceeds IEPA Class II G.W. Ing. GRO.
9. ▲ = Concentration exceeds IEPA Indoor Inhalation GRO(s).

Table XII

Groundwater Analytical Results - PNAs

Analyte	IEPA GRO's							ADL	Sample Date	MW-105B 11/12/18	MW-116B 11/12/18
	G.W. Ing.		Diffusion & Advection		Diffusion Only						
	Class I	Class II	Residential	Ind./Com.	Residential	Ind./Com.					
PNAs	Acenaphthene	0.42	2.1	NE	NE	NE	NE	NE	-	< 0.0010	< 0.0010
	Acenaphthylene	0.21	1.05	NE	NE	NE	NE	NE	-	< 0.0010	< 0.0010
	Anthracene	2.1	10.5	NE	NE	NE	NE	NE	-	< 0.0010	< 0.0010
	Benz(a)anthracene	0.00013	0.00065	NE	NE	NE	NE	0.00013	-	< 0.00010	< 0.00010
	Benzo(a)pyrene	0.0002	0.002	NE	NE	NE	NE	0.00023	-	< 0.00010	< 0.00010
	Benzo(b)fluoranthene	0.00018	0.0009	NE	NE	NE	NE	0.00018	-	< 0.00010	< 0.00010
	Benzo(g,h,i)perylene	0.21	1.05	NE	NE	NE	NE	NE	-	< 0.0010	< 0.0010
	Benzo(k)fluoranthene	0.00017	0.00085	NE	NE	NE	NE	NE	-	< 0.00010	< 0.00010
	Chrysene	0.0015	0.0075	NE	NE	NE	NE	NE	-	< 0.00010	< 0.00010
	Dibenz(a,h)anthracene	0.0003	0.0015	NE	NE	NE	NE	0.0003	-	< 0.00010	< 0.00010
	Fluoranthene	0.28	1.4	NE	NE	NE	NE	NE	-	< 0.0010	< 0.0010
	Fluorene	0.28	1.4	NE	NE	NE	NE	NE	-	< 0.0010	< 0.0010
	Indeno(1,2,3-cd)pyrene	0.00043	0.00215	NE	NE	NE	NE	NE	-	< 0.0010	< 0.0010
	Naphthalene	0.14	0.22	0.075	0.32	1.8	13	NE	-	< 0.00010	< 0.00010
	Phenanthrene	0.21	1.05	NE	NE	NE	NE	NE	-	< 0.0010	< 0.0010
	Pyrene	0.21	1.05	NE	NE	NE	NE	NE	-	< 0.0010	< 0.0010

Notes:

1. All results expressed in milligrams per liter (mg/L).
2. NA = Not analyzed for this constituent.
3. NE = No established IEPA GRO for this analyte.
4. Samples were analyzed by EPA Method 8270C (3510C).
5. Diffusion & Advection and Diffusion Only GROs apply to Indoor Inhalation exposure route.
6. Ind./Com. = Industrial/Commercial property use scenario.
7. **Bold values** = Concentration exceeds IEPA Class I G.W. Ing. GRO.
8. **0.075** = Concentration exceeds IEPA Class II G.W. Ing. GRO.
9. **▲** = Concentration exceeds IEPA Indoor Inhalation GRO(s).



Table XIII

## Groundwater Analytical Results - Pesticides-PCBs

Analyte	IEPA GRO's						ADL	Sample Date	MW-105B 11/12/18	MW-116B 11/12/18
	G.W. Ing.		Diffusion & Advection		Diffusion Only					
	Class I	Class II	Residential	Ind./Com.	Residential	Ind./Com.				
Pesticides	4,4'-DDD	0.014	0.07	NE	NE	NE	NE	0.014	< 0.000050	< 0.000050
	4,4'-DDE	0.01	0.05	NE	NE	NE	NE	0.01	< 0.000050	< 0.000050
	4,4'-DDT	0.006	0.03	NE	NE	NE	NE	0.006	< 0.000050	< 0.000050
	Aldrin	0.014	0.07	NE	NE	NE	NE	0.014	< 0.000050	< 0.000050
	alpha-BHC	0.00011	0.00055	NE	NE	NE	NE	0.000111	< 0.000050	< 0.000050
	alpha-Chlordane	NE	NE	NE	NE	NE	NE	NE	< 0.000050	< 0.000050
	beta-BHC	NE	NE	NE	NE	NE	NE	NE	< 0.000050	< 0.000050
	Chlordane	0.002	0.01	NE	NE	NE	NE	0.00014 (NA)	< 0.0010	< 0.0010
	delta-BHC	NE	NE	NE	NE	NE	NE	NE	< 0.000050	< 0.000050
	Dieldrin	0.009	0.045	NE	NE	NE	NE	0.009	< 0.000050	< 0.000050
	Endosulfan Ia	0.042	0.21	NE	NE	NE	NE	NE	< 0.000050	< 0.000050
	Endosulfan IIa	0.042	0.21	NE	NE	NE	NE	NE	< 0.000050	< 0.000050
	Endosulfan sulfate	NE	NE	NE	NE	NE	NE	NE	< 0.000050	< 0.000050
	Endrin	0.002	0.01	NE	NE	NE	NE	NE	< 0.000050	< 0.000050
	Endrin aldehyde	NE	NE	NE	NE	NE	NE	NE	< 0.000050	< 0.000050
	Endrin ketone	NE	NE	NE	NE	NE	NE	NE	< 0.000050	< 0.000050
	gamma-BHC	0.0002	0.001	NE	NE	NE	NE	0.014	< 0.000050	< 0.000050
	gamma-Chlordane	NE	NE	NE	NE	NE	NE	NE	< 0.000050	< 0.000050
	Heptachlor	0.0004	0.002	0.0025	0.0096	0.058	0.18	0.013	< 0.000050	< 0.000050
	Heptachlor epoxide	0.0002	0.001	NE	NE	NE	NE	0.015	< 0.000050	< 0.000050
Methoxychlor	0.04	0.2	NE	NE	NE	NE	NE	< 0.000050	< 0.000050	
Toxaphene	0.003	0.015	NE	NE	NE	NE	0.00086 (NA)	< 0.0010	< 0.0010	
PCBs	Aroclor 1016	0.0005	0.0025	NE	NE	NE	NE	NE	< 0.00050	< 0.00050
	Aroclor 1221	0.0005	0.0025	NE	NE	NE	NE	NE	< 0.00050	< 0.00050
	Aroclor 1232	0.0005	0.0025	NE	NE	NE	NE	NE	< 0.00050	< 0.00050
	Aroclor 1242	0.0005	0.0025	NE	NE	NE	NE	NE	< 0.00050	< 0.00050
	Aroclor 1248	0.0005	0.0025	NE	NE	NE	NE	NE	< 0.00050	< 0.00050
	Aroclor 1254	0.0005	0.0025	NE	NE	NE	NE	NE	< 0.00050	< 0.00050
	Aroclor 1260	0.0005	0.0025	NE	NE	NE	NE	NE	< 0.00050	< 0.00050

## Notes:

1. All results expressed in milligrams per liter (mg/L).
2. NA = Not analyzed for this constituent.
3. NE = No established IEPA GRO for this analyte.
4. Samples were analyzed by EPA Method 8081 and 8082.
5. *Diffusion & Advection* and *Diffusion Only* GROs apply to Indoor Inhalation exposure route.
6. Ind./Com. = Industrial/Commercial property use scenario.
7. **Bold values** = Concentration exceeds IEPA Class I G.W. Ing. GRO.
8. **▲** = Concentration exceeds IEPA Class II G.W. Ing. GRO.
9. **▲** = Concentration exceeds IEPA Indoor Inhalation GRO(s).

Table XIV

## Groundwater Analytical Results - Inorganics

Analyte	IEPA GRO's						ADL	Sample	MW-105B	MW-105B	MW-116B	MW-116B
	G.W. Ing.		Diffusion & Advection		Diffusion Only			Date	11/12/18	11/13/18	11/12/18	11/12/18
	Class I	Class II	Residential	Ind./Com.	Residential	Ind./Com.		-		Filtered		Filtered
Inorganics	Aluminum	3.5	5	NE	NE	NE	NE	NE	<b>9.2</b>	< 0.040	<b>49</b>	< 0.040
	Antimony	0.006	0.024	NE	NE	NE	NE	NE	< 0.0060	< 0.0060	< 0.0060	< 0.0060
	Arsenic	0.05	0.2	NE	NE	NE	NE	0.001	<b>0.017</b>	0.0072	0.13	0.012
	Barium	2	2	NE	NE	NE	NE	NE	0.12	0.075	0.41	0.058
	Beryllium	0.004	0.5	NE	NE	NE	NE	NE	< 0.0020	< 0.0020	0.0039	< 0.0020
	Cadmium	0.005	0.05	NE	NE	NE	NE	NE	< 0.0020	< 0.0020	0.0042	< 0.0020
	Calcium	NE	NE	NE	NE	NE	NE	NE	150	140	1100	120
	Chromium	0.1	1	NE	NE	NE	NE	NE	0.019	< 0.0040	0.14	< 0.0040
	Cobalt	1	1	NE	NE	NE	NE	NE	0.011	< 0.0040	0.16	< 0.0040
	Copper	0.65	0.65	NE	NE	NE	NE	NE	0.025	< 0.010	0.34	< 0.010
	Cyanide	0.2	0.6	NE	NE	NE	NE	NE	< 0.0050	NA	< 0.0050	NA
	Iron	5	5	NE	NE	NE	NE	NE	<b>21</b>	3.3	<b>190</b>	1.8
	Lead	0.0075	0.1	NE	NE	NE	NE	NE	0.02	< 0.0020	<b>0.31</b>	< 0.0020
	Magnesium	NE	NE	NE	NE	NE	NE	NE	61	58	610	64
	Manganese	0.15	10	NE	NE	NE	NE	NE	0.41	0.24	6.8	0.39
	Mercury	0.002	0.01	0.053	0.06	0.06	0.06	NE	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	Nickel	0.1	2	NE	NE	NE	NE	NE	0.023	< 0.0080	0.3	< 0.0080
	Potassium	NE	NE	NE	NE	NE	NE	NE	3.9	1.3	11	1
	Selenium	0.05	0.05	NE	NE	NE	NE	NE	< 0.0040	< 0.0040	< 0.0040	< 0.0040
	Silver	0.05	NE	NE	NE	NE	NE	NE	< 0.0040	< 0.0040	< 0.0040	< 0.0040
Sodium	NE	NE	NE	NE	NE	NE	NE	23	25	39	37	
Thallium	0.002	0.02	NE	NE	NE	NE	NE	< 0.0020	< 0.0020	0.0067	< 0.0020	
Vanadium	0.049	0.1	NE	NE	NE	NE	NE	0.044	0.021	<b>0.32</b>	0.02	
Zinc	5	10	NE	NE	NE	NE	NE	0.1	< 0.020	0.71	< 0.020	

## Notes:

- All results expressed in milligrams per liter (mg/L).
- NA = Not analyzed for this constituent.
- NE = No established IEPA GRO for this analyte.
- Samples were analyzed by EPA Method 6020/7471A.
- Diffusion & Advection and Diffusion Only GROs apply to Indoor Inhalation exposure route.
- Ind./Com. = Industrial/Commercial property use scenario.
- Bold values** = Concentration exceeds IEPA Class I G.W. Ing. GRO.
- Blue shaded** = Concentration exceeds IEPA Class II G.W. Ing. GRO.

## **Appendices**

Appendix A	Soil Boring Logs
Appendix B	Groundwater Ordinance & Well Search Documentation
Appendix C	Laboratory Accreditations
Appendix D	Laboratory Analytical Reports
Appendix E	Tier 2 Evaluation & Groundwater Modeling
Appendix F	Model Groundwater Notification Letter

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**Appendix A**  
**Soil Boring Logs**

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# SOIL BORING LOG

Carnow, Conibear & Assoc., Ltd.  
 Environmental Consulting Services  
 600 W. Van Buren St., Suite 500, Chicago, IL 60607  
 t: 312.782.4486 f: 312.782.5145  
 www.ccalltd.com



**SITE NAME:** Fire Station 115 Site B  
**SITE LOCATION:** S. Morgan St. & W. 119th St.  
 Chicago, IL  
**PROJECT NUMBER:** E1284X002  
**BORING NUMBER:** B-105B/MW-105B  
**ELEVATION:** ~613 ft FEET

**DRILLING DATE:** 11/12/18

Page 1 of 1

SAMPLE INTERVAL	DEPTH (FEET)	SAMPLE RECOVERY	LITHOLOGY	DESCRIPTION	PENETROMETER	MOISTURE	PID/FID (ppm)	SAMPLE ANALYZED	REMARKS
1	0			Fill: Asphalt underlain by crushed stone and sand.					
	1				2.0		0.0		
	2								Sample B-105B (1'-3') 7:56 AM
	3			Sandy silt: Brown. Find grain. (SM)	2.5		0.0		
	4			Silty Sand: Tan. Fine grain. (SM) Increase silt content with depth.					Sample B-105B (3'-5') 7:58 AM
2	5				1.0		0.0		
	6			Silty Clay: Grey. Hard. Trace sand and shale. (CL)					Groundwater at 6' ft
	7				0.5		0.0		
	8								MW-105B 10:00 AM
	9				4.5+		0.0		1" PVC well installed to 15' bgs with 10' screen and 2' riser. Annulus filled with sand to 3' bgs and bentonite chips to grade with asphalt patch.
	10								

**GROUNDWATER DEPTH (FEET):**

DURING DRILLING - ~6 ft  
 AFTER DRILLING - ~7 ft

**DRILLING COMPANY:** Earth Solutions

**GEOLOGIST:** KZ

**WEATHER:** ~28°F, Mostly Cloudy

# SOIL BORING LOG

Carnow, Conibear & Assoc., Ltd.  
 Environmental Consulting Services  
 600 W. Van Buren St., Suite 500, Chicago, IL 60607  
 t: 312.782.4486 f: 312.782.5145  
 www.ccaltd.com



**SITE NAME:** Fire Station 115 Site B  
**SITE LOCATION:** S. Morgan St. & W. 119th St.  
 Chicago, IL  
**PROJECT NUMBER:** E1284X002  
**BORING NUMBER:** B-106B  
**ELEVATION:** ~613 ft FEET

**DRILLING DATE:** 10/16/18  
 Page 1 of 1

SAMPLE INTERVAL	DEPTH (FEET)	SAMPLE RECOVERY	LITHOLOGY	DESCRIPTION	PENETROMETER	MOISTURE	PID/FID (ppm)	SAMPLE ANALYZED	REMARKS
1	0			Fill: Asphalt underlain by sand, crushed rock.					
	1				-		0.7		
	2			Sandy silt: Black and tan with gravel. Soft. (SM)					Sample B-106B (1'-3') 12:47 PM
	3				1.5		0.0		
2	4			Silty Sand: Tan. Fine grain. (SM) Increase silt content with depth.					Groundwater at 4 ft
	5				2.0		0.1		
	6								
	7				1.25		0.0		
	8			Silty Clay: Grey. Hard. Trace sand and shale. (CL)					
3	9				4.5+		0.1		
	10								
	11				4.5+		0.0		
	12								

**GROUNDWATER DEPTH (FEET):**

DURING DRILLING - ~4 ft  
 AFTER DRILLING - N/A

**DRILLING COMPANY:** Enviro-Dynamics

**GEOLOGIST:** LP

**WEATHER:** ~28°F, Mostly Cloudy

# SOIL BORING LOG

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 Environmental Consulting Services  
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**SITE NAME:** Fire Station 115 Site B  
**SITE LOCATION:** S. Morgan St. & W. 119th St.  
 Chicago, IL  
**PROJECT NUMBER:** E1284X002  
**BORING NUMBER:** B-107B  
**ELEVATION:** ~613 ft FEET

**DRILLING DATE:** 10/16/18  
 Page 1 of 1

SAMPLE INTERVAL	DEPTH (FEET)	SAMPLE RECOVERY	LITHOLOGY	DESCRIPTION	PENETROMETER	MOISTURE	PID/FID (ppm)	SAMPLE ANALYZED	REMARKS
1	0			Fill: Asphalt underlain by crushed stone, sand and crushed rock with blue staining.					
	1				-		0.0		
	2			Sandy silt: Black and tan with gravel. Soft. (SM)					Sample B-107B (1'-3') 12:28 PM
	3				2.0		0.0		
2	4			Silty Sand: Tan. Fine grain. (SM) Increase silt content with depth.					Groundwater at 3 ft
	5				2.0		0.0		
	6								
	7				2.0		0.0		
	8			Silty Clay: Grey. Hard. Trace sand and shale. (CL)					
3	9				4.5+		0.0		
	10								
	11				4.5+		0.0		
	12								

**GROUNDWATER DEPTH (FEET):**

DURING DRILLING - ~3 ft  
 AFTER DRILLING - N/A

**DRILLING COMPANY:** Enviro-Dynamics

**GEOLOGIST:** LP

**WEATHER:** ~28°F, Mostly Cloudy

# SOIL BORING LOG

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**SITE NAME:** Fire Station 115 Site B  
**SITE LOCATION:** S. Morgan St. & W. 119th St.  
 Chicago, IL  
**PROJECT NUMBER:** E1284X002  
**BORING NUMBER:** B-109B  
**ELEVATION:** ~613 ft FEET

**DRILLING DATE:** 11/12/18

Page 1 of 1

SAMPLE INTERVAL	DEPTH (FEET)	SAMPLE RECOVERY	LITHOLOGY	DESCRIPTION	PENETROMETER	MOISTURE	PID/FID (ppm)	SAMPLE ANALYZED	REMARKS
1	0			Fill: Asphalt underlain by crushed gravel and cinders.					
	1				-		0.0		
	2								Sample B-109B (1'-3') 8:42 AM
	3			Silty Sand: Brown underlain by Black. Fine grains. (SM)	2.5		0.0		
	4								Sample B-109B (3'-5') 8:48 AM
	5			Silty Sand: Tan. Fine grains. (SM)	0.5		0.0		
2	6			Silty Clay: Grey. Firm. Trace sand, gravel, and shale. (CL).					Groundwater at 5.5 ft
	7				2.5		0.0		
	8								
	9				4.5+		0.0		
	10								

**GROUNDWATER DEPTH (FEET):**

**DURING DRILLING** - ~5.5 ft  
**AFTER DRILLING** - N/A

**DRILLING COMPANY:** Earth Solutions

**GEOLOGIST:** KZ

**WEATHER:** ~28°F, Mostly Cloudy



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**SITE NAME:** Fire Station 115 Site B  
**SITE LOCATION:** S. Morgan St. & W. 119th St.  
 Chicago, IL  
**PROJECT NUMBER:** E1284X002  
**BORING NUMBER:** B-110B  
**ELEVATION:** ~613 ft FEET

**DRILLING DATE:** 11/12/18

Page 1 of 1

SAMPLE INTERVAL	DEPTH (FEET)	SAMPLE RECOVERY	LITHOLOGY	DESCRIPTION	PENETROMETER	MOISTURE	PID/FID (ppm)	SAMPLE ANALYZED	REMARKS
1	0			Fill: Asphalt underlain by crushed gravel and cinders.					
	1				-		0.0		
	2								Sample B-110B (1'-3') 8:10 AM
	3			Silty Sand: Brown. Transitions to Black at 4.5'. Fine grains. (SM)	2.5		0.0		
	4								Sample B-110B (3'-5') 8:15 AM
2	5			Silty Sand: Tan. Fine grains. (SM)	0.5		0.0		
	6								Groundwater at 5.5 ft
	7				2.5		0.0		
	8			Silty Clay: Grey. Firm. Trace sand, gravel, and shale. (CL).					
	9				4.5+		0.0		
	10								
	11				4.5+		0.0		
	12								
	13				4.5+		0.0		
	14								
	15								

**GROUNDWATER DEPTH (FEET):**

DURING DRILLING - ~5.5 ft  
 AFTER DRILLING - N/A

**DRILLING COMPANY:** Earth Solutions

**GEOLOGIST:** KZ

**WEATHER:** ~28°F, Mostly Cloudy

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**SITE NAME:** Fire Station 115 Site B  
**SITE LOCATION:** S. Morgan St. & W. 119th St.  
 Chicago, IL  
**PROJECT NUMBER:** E1284X002  
**BORING NUMBER:** B-111B  
**ELEVATION:** ~613 ft FEET

**DRILLING DATE:** 10/16/18  
 Page 1 of 1

SAMPLE INTERVAL	DEPTH (FEET)	SAMPLE RECOVERY	LITHOLOGY	DESCRIPTION	PENETROMETER	MOISTURE	PID/FID (ppm)	SAMPLE ANALYZED	REMARKS
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1	0			Fill: Asphalt underlain by crushed stone in silty sand matrix.					
	1			Brown and black silty clay fill material with crushed stone.	-		0.0		Sample B-111B (1'-3') 12:11 PM
2	2								Groundwater at 3 ft
	3				1.75		0.0		
	4			Silty Sand: Tan. Fine grain. (SM) Increase silt content with depth.					
3	5				.75		0.0		
	6								
3	7			Silty Clay: Grey. Stiff. Trace sand and shale. (CL) Increase clay content with depth.	1.25		0.0		
	8								
	9				2.75		0.0		
	10								
	11				4.5+		0.0		
	12								

**GROUNDWATER DEPTH (FEET):**

DURING DRILLING - ~3 ft  
 AFTER DRILLING - N/A

**DRILLING COMPANY:** Enviro-Dynamics

**GEOLOGIST:** LP

**WEATHER:** ~28°F, Mostly Cloudy

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**SITE NAME:** Fire Station 115 Site B  
**SITE LOCATION:** S. Morgan St. & W. 119th St.  
 Chicago, IL  
**PROJECT NUMBER:** E1284X002  
**BORING NUMBER:** B-114B  
**ELEVATION:** ~613 ft FEET

**DRILLING DATE:** 11/13/18  
 Page 1 of 1

SAMPLE INTERVAL	DEPTH (FEET)	SAMPLE RECOVERY	LITHOLOGY	DESCRIPTION	PENETROMETER	MOISTURE	PID/FID (ppm)	SAMPLE ANALYZED	REMARKS
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1	0			Fill: Asphalt underlain by crushed stone and brick, cinders in dark brown silty sand matrix.			0.0	Sample B-114B (1'-3') 8:06 AM	
	1								
	2							Sample B-114B (3'-5') 8:08 AM	
	3			Silty Sand: Black. Fine grains. (SM)	2.5		0.0		
	4			Silty Sand: Tan. Fine grains. (SM)				Groundwater at 6 ft	
	5				1.5		0.0		
2	6								
	7			Silty Clay: Brown and gray mottled. Firm. Trace sand, gravel, and shale. (CL).	1.5		0.0		
	8			Silty Clay: Grey. Hard. Trace sand, gravel, and shale. (CL).					
	9				4.5		0.0		
	10								
	11				4.5		0.0		
	12								
	13				4.5		0.0		
	14								
	15				4.5		0.0		
	16								
	17				4.5		0.0		
	18								
	19								
	20								

**GROUNDWATER DEPTH (FEET):**

DURING DRILLING - ~6 ft  
 AFTER DRILLING - 7 ft

**DRILLING COMPANY:** Earth Solutions

**GEOLOGIST:** KZ, KK

**WEATHER:** ~28°F, Mostly Cloudy

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**SITE NAME:** Fire Station 115 Site B  
**SITE LOCATION:** S. Morgan St. & W. 119th St.  
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**PROJECT NUMBER:** E1284X002  
**BORING NUMBER:** B-115B  
**ELEVATION:** ~613 ft FEET

**DRILLING DATE:** 11/13/18  
 Page 1 of 1

SAMPLE INTERVAL	DEPTH (FEET)	SAMPLE RECOVERY	LITHOLOGY	DESCRIPTION	PENETROMETER	MOISTURE	PID/FID (ppm)	SAMPLE ANALYZED	REMARKS
1	0			Fill: Asphalt underlain by sandy fill with cinders and ash.					
	1				-		0.0		
	2								Sample B-115B (1'-3') 7:35 AM
	3			Silty Sand: Tan. Fine grains. (SM)	1.75		0.0		
	4								Sample B-115B (3'-5') 7:40 AM
2	5				2.0		0.0		
	6								Groundwater at 6 ft
	7				1.0		0.0		
	8			Silty Clay: Grey. Firm. Trace sand, gravel, and shale. (CL).					
	9				2.75		0.0		
	10								
	11				4.5		0.0		
	12								
	13				4.5		0.0		
	14								
	15								

**GROUNDWATER DEPTH (FEET):**

DURING DRILLING - ~6 ft  
 AFTER DRILLING - N/A

**DRILLING COMPANY:** Earth Solutions

**GEOLOGIST:** KZ, KK

**WEATHER:** ~28°F, Mostly Cloudy

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**SITE NAME:** Fire Station 115 Site B  
**SITE LOCATION:** S. Morgan St. & W. 119th St.  
 Chicago, IL  
**PROJECT NUMBER:** E1284X002  
**BORING NUMBER:** B-116B/MW-116B  
**ELEVATION:** ~613 ft FEET

**DRILLING DATE:** 11/12/18  
 Page 1 of 1

SAMPLE INTERVAL	DEPTH (FEET)	SAMPLE RECOVERY	LITHOLOGY	DESCRIPTION	PENETROMETER	MOISTURE	PID/FID (ppm)	SAMPLE ANALYZED	REMARKS
1	0			Fill: Asphalt underlain by crushed stone and brick, cinders in dark brown silty sand matrix.					
	1				-		0.0		
	2								Sample B-116B (1'-3') 10:15 AM
	3			Silty Sand: Black. Fine grains. (SM)	2.5		0.0		
	4			Silty Sand: Tan. Fine grains. (SM)					Sample B-116B (3'-5') 10:20 AM
2	5				0.5		0.0		
	6								Groundwater at 6 ft
	7			Silty Clay: Grey. Firm. Trace sand, gravel, and shale. (CL).	2.5		0.0		
	8								
	9				3.25		0.0		
	10								MW-116B 1:30 PM 1" PVC well installed to 15' bgs with 10' screen and 2' riser. Annulus filled with sand to 3' bgs and bentonite chips to grade with asphalt patch.
	11				4.5+		0.0		
	12								
	13				4.5+		0.0		
	14								
	15								

**GROUNDWATER DEPTH (FEET):**

DURING DRILLING - ~6 ft  
 AFTER DRILLING - 7 ft

**DRILLING COMPANY:** Earth Solutions

**GEOLOGIST:** KZ

**WEATHER:** ~28°F, Mostly Cloudy

# SOIL BORING LOG

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**SITE NAME:** Fire Station 115 Site B  
**SITE LOCATION:** S. Morgan St. & W. 119th St.  
 Chicago, IL  
**PROJECT NUMBER:** E1284X002  
**BORING NUMBER:** B-117B  
**ELEVATION:** ~613 ft FEET

**DRILLING DATE:** 11/13/18  
 Page 1 of 1

SAMPLE INTERVAL	DEPTH (FEET)	SAMPLE RECOVERY	LITHOLOGY	DESCRIPTION	PENETROMETER	MOISTURE	PID/FID (ppm)	SAMPLE ANALYZED	REMARKS
1	0			Fill: Asphalt underlain by sandy fill with cinders.					
	1				-		0.0		
	2			Silty Clay: Dark brown and grey mottled. Trace sand. (CL)					Sample B-117B (1'-3') 9:00 AM
	3			Silty Sand: Black. Fine grains. (SM).	2.0		0.0		
	4			Silty Sand: Tan. Fine grains. (SM)					Sample B-117B (3'-5') 9:05 AM
2	5			Sandy Clay: Brown. ~40% sand. Soft. (SM) Decreased sand content with depth.	1.5		0.0		Groundwater at 5 ft
	6								
	7				1.0		0.0		
	8								
	9				2.5		0.0		
	10			Silty Clay: Grey. Firm. Trace sand, gravel, and shale. (CL).					
	11				4.0		0.0		
	12								
	13				4.5		0.0		
	14								
	15								

**GROUNDWATER DEPTH (FEET):**

DURING DRILLING - ~5 ft  
 AFTER DRILLING - N/A

**DRILLING COMPANY:** Earth Solutions

**GEOLOGIST:** KZ, KK

**WEATHER:** ~28°F, Mostly Cloudy

# SOIL BORING LOG

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**SITE NAME:** Fire Station 115 Site B  
**SITE LOCATION:** S. Morgan St. & W. 119th St.  
 Chicago, IL  
**PROJECT NUMBER:** E1284X002  
**BORING NUMBER:** B-118B  
**ELEVATION:** ~613 ft FEET

**DRILLING DATE:** 11/13/18  
 Page 1 of 1

SAMPLE INTERVAL	DEPTH (FEET)	SAMPLE RECOVERY	LITHOLOGY	DESCRIPTION	PENETROMETER	MOISTURE	PID/FID (ppm)	SAMPLE ANALYZED	REMARKS
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1	0			Fill: Asphalt underlain by crushed brick and stone in a sandy fill material matrix.					
	1				-		0.0		Sample B-118B (1'-3') 8:30 AM
2	2			Silty Clay: Brown and grey mottled. Trace sand. (CL)	4.0		0.0		
2	3			Silty Sand: Black. Fine grains. (SM).					Sample B-118B (3'-5') 8:32 AM
	4	4			2.0		0.0		
2	5			Silty Sand: Tan. Fine grains. (SM)	2.0		0.0		Groundwater at 6 ft
	6	6							
2	7			Silty Sand: Tan. Fine grains. (SM)	2.0		0.0		Groundwater at 6 ft
	8	8							
2	9			Silty Clay: Grey. Firm. Trace sand, gravel, and shale. (CL).	4.0		0.0		Groundwater at 6 ft
	10	10							
2	11			Silty Clay: Grey. Firm. Trace sand, gravel, and shale. (CL).	4.5		0.0		Groundwater at 6 ft
	12	12							
2	13			Silty Clay: Grey. Firm. Trace sand, gravel, and shale. (CL).	4.0		0.0		Groundwater at 6 ft
	14	14							
2	15			Silty Clay: Grey. Firm. Trace sand, gravel, and shale. (CL).					Groundwater at 6 ft

**GROUNDWATER DEPTH (FEET):**

DURING DRILLING - ~6 ft  
 AFTER DRILLING - N/A

**DRILLING COMPANY:** Earth Solutions

**GEOLOGIST:** KZ, KK

**WEATHER:** ~28°F, Mostly Cloudy

# SOIL BORING LOG

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**SITE NAME:** Fire Station 115 Site B  
**SITE LOCATION:** S. Morgan St. & W. 119th St.  
 Chicago, IL  
**PROJECT NUMBER:** E1284X002  
**BORING NUMBER:** B-205B  
**ELEVATION:** ~613 ft FEET

**DRILLING DATE:** 11/29/18  
 Page 1 of 1

SAMPLE INTERVAL	DEPTH (FEET)	SAMPLE RECOVERY	LITHOLOGY	DESCRIPTION	PENETROMETER	MOISTURE	PID/FID (ppm)	SAMPLE ANALYZED	REMARKS
1	0			Fill: Asphalt underlain by crushed stone, gravel and trace brick in a brown sandy silt matrix.					
	1					-	0.0		
	2								Sample B-205B (1'-3') 10:28 AM
	3			Sandy Silt: Brown and Gray. (CL)					
	4			Silty Sand: Black. Fine grains. (SM)	4.0		0.0		
	5			Silty Sand: Tan. Fine grains. (SM)					Sample B-205B (3'-5') 10:30 AM
2	6				2.0		0.0		Groundwater at 6.5 ft
	7				2.0		0.0		
	8			Silty Clay: Grey. Firm. Trace sand, gravel, and shale. (CL).					
	9				4.0		0.0		
	10								

**GROUNDWATER DEPTH (FEET):**

**DURING DRILLING** - ~6.5 ft  
**AFTER DRILLING** - N/A

**DRILLING COMPANY:** EPS

**GEOLOGIST:** KZ, KK

**WEATHER:** ~28°F, Mostly Cloudy



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**SITE NAME:** Fire Station 115 Site B  
**SITE LOCATION:** S. Morgan St. & W. 119th St.  
 Chicago, IL  
**PROJECT NUMBER:** E1284X002  
**BORING NUMBER:** B-206B  
**ELEVATION:** ~613 ft FEET

**DRILLING DATE:** 11/29/18  
 Page 1 of 1

SAMPLE INTERVAL	DEPTH (FEET)	SAMPLE RECOVERY	LITHOLOGY	DESCRIPTION	PENETROMETER	MOISTURE	PID/FID (ppm)	SAMPLE ANALYZED	REMARKS
1	0			Fill: Asphalt underlain by crushed stone, gravel and trace brick in a brown sandy silt matrix.					
	1					-	0.0		
	2								Sample B-206B (1'-3') 10:15 AM
	3			Sandy Silt: Brown and Gray mottled. (CL)					
	4			Silty Sand: Black. Fine grains. (SM)	4.0		0.0		
	5			Silty Sand: Tan. Fine grains. (SM)					Sample B-206B (3'-5') 10:17 AM
2	6				2.0		0.0		Groundwater at 6 ft
	7			Silty Clay: Gray. Firm. Trace sand, gravel, and shale. (CL).	2.0		0.0		
	8								
	9				4.0		0.0		
	10								

**GROUNDWATER DEPTH (FEET):**

DURING DRILLING - ~6 ft  
 AFTER DRILLING - N/A

**DRILLING COMPANY:** EPS

**GEOLOGIST:** KZ, KK

**WEATHER:** ~28°F, Mostly Cloudy

# SOIL BORING LOG

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**SITE NAME:** Fire Station 115 Site B  
**SITE LOCATION:** S. Morgan St. & W. 119th St.  
 Chicago, IL  
**PROJECT NUMBER:** E1284X002  
**BORING NUMBER:** B-207B  
**ELEVATION:** ~613 ft FEET

**DRILLING DATE:** 11/29/18

Page 1 of 1

SAMPLE INTERVAL	DEPTH (FEET)	SAMPLE RECOVERY	LITHOLOGY	DESCRIPTION	PENETROMETER	MOISTURE	PID/FID (ppm)	SAMPLE ANALYZED	REMARKS
1	0			Fill: Asphalt underlain by crushed stone, brick and cinders in a brown sandy silt matrix.					
	1					-	0.0		
	2								Sample B-207B (1'-3') 9:25 AM
	3			Sandy Silt: Dark Brown and Tan mottled. (CL)	4.0		0.0		
	4			Silty Sand: Black. Fine grains. (SM)					Sample B-207B (3'-5') 9:27 AM
	5			Silty Sand: Tan. Fine grains. (SM)					Groundwater at 5 ft
2	5				2.0		0.0		
	6								
	7			Silty Clay: Gray. Firm. Trace sand, gravel, and shale. (CL).	2.0		0.0		
	8								
	9				4.0		0.0		
	10								

**GROUNDWATER DEPTH (FEET):**

DURING DRILLING - ~5 ft  
 AFTER DRILLING - N/A

**DRILLING COMPANY:** EPS

**GEOLOGIST:** KZ, KK

**WEATHER:** ~28°F, Mostly Cloudy

# SOIL BORING LOG

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**SITE NAME:** Fire Station 115 Site B  
**SITE LOCATION:** S. Morgan St. & W. 119th St.  
 Chicago, IL  
**PROJECT NUMBER:** E1284X002  
**BORING NUMBER:** B-208B  
**ELEVATION:** ~613 ft FEET

**DRILLING DATE:** 11/29/18  
 Page 1 of 1

SAMPLE INTERVAL	DEPTH (FEET)	SAMPLE RECOVERY	LITHOLOGY	DESCRIPTION	PENETROMETER	MOISTURE	PID/FID (ppm)	SAMPLE ANALYZED	REMARKS
1	0			Fill: Asphalt underlain by crushed gravel in a brown and gray mottled sandy silt matrix.					
	1				-		0.0		
	2								Sample B-208B (1'-3') 9:18 AM
	3			Silty Sand: Dark Brown mottled. Fine grains. (SM)	4.0		0.0		
	4			Silty Sand: Black. Fine grains. Trace gravel. (SM)					Sample B-208B (3'-5') 9:20 AM
	5			Silty Sand: Tan. Fine grains. (SM)	2.0		0.0		
2	6								Groundwater at 6 ft
	7			Silty Clay: Gray. Firm. Trace sand, gravel, and shale. (CL).	2.0		0.0		
	8								
	9				4.0		0.0		
	10								

**GROUNDWATER DEPTH (FEET):**

DURING DRILLING - ~6 ft  
 AFTER DRILLING - N/A

**DRILLING COMPANY:** EPS

**GEOLOGIST:** KZ, KK

**WEATHER:** ~28°F, Mostly Cloudy

# SOIL BORING LOG

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 Environmental Consulting Services  
 600 W. Van Buren St., Suite 500, Chicago, IL 60607  
 t: 312.782.4486 f: 312.782.5145  
 www.cca ltd.com



**SITE NAME:** Fire Station 115 Site B  
**SITE LOCATION:** S. Morgan St. & W. 119th St.  
 Chicago, IL  
**PROJECT NUMBER:** E1284X002  
**BORING NUMBER:** B-209B  
**ELEVATION:** ~613 ft FEET

**DRILLING DATE:** 11/29/18

Page 1 of 1

SAMPLE INTERVAL	DEPTH (FEET)	SAMPLE RECOVERY	LITHOLOGY	DESCRIPTION	PENETROMETER	MOISTURE	PID/FID (ppm)	SAMPLE ANALYZED	REMARKS
1	0			Fill: Topsoil with tree roots and crushed concrete underlain by crushed stone and brick in brown sandy silt matrix.					
	1					-	0.0		
	2								Sample B-209B (1'-3') 10:10 AM
	3			Sandy Silt: Brown and gray mottled. (CL)	4.0		0.0		
	4			Silty Sand: Black. Fine grains. (SM)					Sample B-209B (3'-5') 10:12 AM
	5			Silty Sand: Tan. Fine grains. (SM)	2.0		0.0		
2	6								Groundwater at 6 ft
	7			Silty Clay: Gray. Firm. Trace sand, gravel, and shale. (CL).	2.0		0.0		
	8								
	9				4.0		0.0		
	10								

**GROUNDWATER DEPTH (FEET):**

DURING DRILLING - ~6 ft  
 AFTER DRILLING - N/A

**DRILLING COMPANY:** EPS

**GEOLOGIST:** KZ, KK

**WEATHER:** ~28°F, Mostly Cloudy

# SOIL BORING LOG

Carnow, Conibear & Assoc., Ltd.  
 Environmental Consulting Services  
 600 W. Van Buren St., Suite 500, Chicago, IL 60607  
 t: 312.782.4486 f: 312.782.5145  
 www.cca ltd.com



**SITE NAME:** Fire Station 115 Site B  
**SITE LOCATION:** S. Morgan St. & W. 119th St.  
 Chicago, IL  
**PROJECT NUMBER:** E1284X002  
**BORING NUMBER:** B-210B  
**ELEVATION:** ~613 ft FEET

**DRILLING DATE:** 11/29/18  
 Page 1 of 1

SAMPLE INTERVAL	DEPTH (FEET)	SAMPLE RECOVERY	LITHOLOGY	DESCRIPTION	PENETROMETER	MOISTURE	PID/FID (ppm)	SAMPLE ANALYZED	REMARKS
-----------------	--------------	-----------------	-----------	-------------	--------------	----------	---------------	-----------------	---------

1	0			Fill: Asphalt underlain by crushed stone in brown sandy silt matrix.					
	1								
	2			Sandy Silt: Brown and gray mottled. (CL)					Sample B-210B (1'-3') 9:30 AM
	3				4.0		0.0		
	4			Silty Sand: Black. Fine grains. (SM)					
2	5			Silty Sand: Tan. Fine grains. (SM)	2.0		0.0		
	6								
	7				2.0		0.0		Groundwater at 7 ft
	8			Silty Clay: Gray. Firm. Trace sand, gravel, and shale. (CL).					
	9				4.0		0.0		
	10								

**GROUNDWATER DEPTH (FEET):**

DURING DRILLING - ~7 ft  
 AFTER DRILLING - N/A

**DRILLING COMPANY:** EPS

**GEOLOGIST:** KZ, KK

**WEATHER:** ~28°F, Mostly Cloudy

# SOIL BORING LOG

Carnow, Conibear & Assoc., Ltd.  
 Environmental Consulting Services  
 600 W. Van Buren St., Suite 500, Chicago, IL 60607  
 t: 312.782.4486 f: 312.782.5145  
 www.cca ltd.com



**SITE NAME:** Fire Station 115 Site B  
**SITE LOCATION:** S. Morgan St. & W. 119th St.  
 Chicago, IL  
**PROJECT NUMBER:** E1284X002  
**BORING NUMBER:** B-211B  
**ELEVATION:** ~613 ft FEET

**DRILLING DATE:** 11/29/18  
 Page 1 of 1

SAMPLE INTERVAL	DEPTH (FEET)	SAMPLE RECOVERY	LITHOLOGY	DESCRIPTION	PENETROMETER	MOISTURE	PID/FID (ppm)	SAMPLE ANALYZED	REMARKS
1	0			Fill: Asphalt underlain by crushed stone and gravel in brown sandy silt matrix.					
	1				-		0.0		
	2								Sample B-211B (1'-3') 9:10 AM
	3			Sandy Silt: Brown and gray mottled. (CL)	4.0		0.0		
	4			Silty Sand: Black. Fine grains. (SM)					Sample B-211B (3'-5') 9:15 AM
2	5			Silty Sand: Tan. Fine grains. (SM)	2.0		0.0		
	6								Groundwater at 6 ft
	7			Silty Clay: Gray. Firm. Trace sand, gravel, and shale. (CL).	2.0		0.0		
	8								
	9				4.0		0.0		
	10								

**GROUNDWATER DEPTH (FEET):**

DURING DRILLING - ~6 ft  
 AFTER DRILLING - N/A

**DRILLING COMPANY:** EPS

**GEOLOGIST:** KZ, KK

**WEATHER:** ~28°F, Mostly Cloudy

# SOIL BORING LOG

Carnow, Conibear & Assoc., Ltd.  
 Environmental Consulting Services  
 600 W. Van Buren St., Suite 500, Chicago, IL 60607  
 t: 312.782.4486 f: 312.782.5145  
 www.cca ltd.com



**SITE NAME:** Fire Station 115 Site B  
**SITE LOCATION:** S. Morgan St. & W. 119th St.  
 Chicago, IL  
**PROJECT NUMBER:** E1284X002  
**BORING NUMBER:** B-212B  
**ELEVATION:** ~613 ft FEET

**DRILLING DATE:** 11/29/18  
 Page 1 of 1

SAMPLE INTERVAL	DEPTH (FEET)	SAMPLE RECOVERY	LITHOLOGY	DESCRIPTION	PENETROMETER	MOISTURE	PID/FID (ppm)	SAMPLE ANALYZED	REMARKS
-----------------	--------------	-----------------	-----------	-------------	--------------	----------	---------------	-----------------	---------

1	0			Fill: Asphalt underlain by crushed stone and gravel with cinders in brown sandy silt matrix.					
	1					-	0.0		
	2								Sample B-212B (1'-3') 9:40 AM
	3			Sandy Silt: Brown and gray mottled. (CL)	4.0		0.0		
	4			Silty Sand: Black. Fine grains. (SM)					
	5			Silty Sand: Tan. Fine grains. (SM)	2.0		0.0		
2	6								Groundwater at 6 ft
	7			Silty Clay: Gray. Firm. Trace sand, gravel, and shale. (CL).	2.0		0.0		
	8								
	9				4.0		0.0		
	10								

**GROUNDWATER DEPTH (FEET):**

DURING DRILLING - ~7 ft  
 AFTER DRILLING - N/A

**DRILLING COMPANY:** EPS

**GEOLOGIST:** KZ, KK

**WEATHER:** ~28°F, Mostly Cloudy

# SOIL BORING LOG

Carnow, Conibear & Assoc., Ltd.  
 Environmental Consulting Services  
 600 W. Van Buren St., Suite 500, Chicago, IL 60607  
 t: 312.782.4486 f: 312.782.5145  
 www.ccaltd.com



**SITE NAME:** Fire Station 115 Site B  
**SITE LOCATION:** S. Morgan St. & W. 119th St.  
 Chicago, IL  
**PROJECT NUMBER:** E1284X002  
**BORING NUMBER:** B-213B  
**ELEVATION:** ~613 ft FEET

**DRILLING DATE:** 11/29/18  
 Page 1 of 1

SAMPLE INTERVAL	DEPTH (FEET)	SAMPLE RECOVERY	LITHOLOGY	DESCRIPTION	PENETROMETER	MOISTURE	PID/FID (ppm)	SAMPLE ANALYZED	REMARKS
-----------------	--------------	-----------------	-----------	-------------	--------------	----------	---------------	-----------------	---------

1	0			Fill: Asphalt underlain by crushed stone and gravel with cinders in brown sandy silt matrix.					
	1						0.0		
	2								Sample B-213B (1'-3') 8:55 AM
	3			Sandy Silt: Brown and gray mottled. (CL)	4.0		0.0		
2	4			Silty Sand: Black. Fine grains. (SM)					
	5			Silty Sand: Tan. Fine grains. (SM)	2.0		0.0		
	6								Groundwater at 6 ft
	7			Silty Clay: Gray. Firm. Trace sand, gravel, and shale. (CL).	2.0		0.0		
	8								
	9				4.0		0.0		
	10								

**GROUNDWATER DEPTH (FEET):**

DURING DRILLING - ~6 ft  
 AFTER DRILLING - N/A

**DRILLING COMPANY:** EPS

**GEOLOGIST:** KZ, KK

**WEATHER:** ~28°F, Mostly Cloudy



# SOIL BORING LOG

Carnow, Conibear & Assoc., Ltd.  
 Environmental Consulting Services  
 600 W. Van Buren St., Suite 500, Chicago, IL 60607  
 t: 312.782.4486 f: 312.782.5145  
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**SITE NAME:** Fire Station 115 Site B  
**SITE LOCATION:** S. Morgan St. & W. 119th St.  
 Chicago, IL  
**PROJECT NUMBER:** E1284X002  
**BORING NUMBER:** B-214B  
**ELEVATION:** ~613 ft FEET

**DRILLING DATE:** 11/29/18

Page 1 of 1

SAMPLE INTERVAL	DEPTH (FEET)	SAMPLE RECOVERY	LITHOLOGY	DESCRIPTION	PENETROMETER	MOISTURE	PID/FID (ppm)	SAMPLE ANALYZED	REMARKS
1	0			Fill: Asphalt underlain by crushed stone and gravel with cinders in brown sandy silt matrix.					
	1					-	0.0		
	2								Sample B-214B (1'-3') 8:48 AM
	3			Sandy Silt: Brown and gray mottled. (CL)	4.0		0.0		
	4			Silty Sand: Black. Fine grains. (SM)					Sample B-214B (3'-5') 8:50
	5			Silty Sand: Tan. Fine grains. (SM)	2.0		0.0		
2	6								Groundwater at 6 ft
	7			Silty Clay: Gray. Firm. Trace sand, gravel, and shale. (CL).	2.0		0.0		
	8								
	9				4.0		0.0		
	10								

**GROUNDWATER DEPTH (FEET):**

DURING DRILLING - ~6 ft  
 AFTER DRILLING - N/A

**DRILLING COMPANY:** EPS

**GEOLOGIST:** KZ, KK

**WEATHER:** ~28°F, Mostly Cloudy

**Appendix B**

**Groundwater Ordinance & Well Search Documentation**

DRAFT

The following is said ordinance as passed:

*Be It Ordained by the City Council of the City of Chicago:*

SECTION 1. Chapter 11-8 of the Municipal Code of Chicago is hereby amended by adding a new Section 11-8-385 and by amending Section 11-8-390 by inserting the language in italics, as follows:

*11-8-385 Potable Water Defined.*

*Potable water is any water used for human consumption, including, but not limited to water used for drinking, bathing, washing dishes, preparing foods and watering gardens in which produce intended for human consumption is grown.*

*11-8-390 Prohibited Use Of Secondary Water; Prohibited Installation Of New Potable Water Supply Wells.*

No secondary water shall overflow into or be discharged into any surge tank, storage tank, or reservoir, or shall in any way be piped or conveyed into the water supply system of any building, structure, or premises to become a part of or be mixed with the fresh water supply from the mains of the Chicago Waterworks System either inside of the premises or in the water service pipe. Secondary water shall not be piped to or used in any plumbing fixture, or for cooling crushers, rollers, or mixers where foods, candies, liquids or materials are manufactured for human or animal consumption. No connection, tap, or opening shall be made in a water distribution system other than an approved water distribution system which will permit such water being used for drinking.

Wherever the fire-protective equipment in any building, structure or premises has service from the Chicago Waterworks System, no pipe or other conduit which conveys secondary water shall be cross-connected to the fire-protective equipment. All fire-protective equipment connected to the Chicago Waterworks System shall be constructed in such manner that

ORIGINAL

all tanks, pipes, pumps, surge tanks, and fire hydrants can be thoroughly drained, flushed and cleaned by the owners of such equipment and premises and there shall be no direct connections from the tanks, pipes and other equipment to any drainage pipes or sewers. *No groundwater well, cistern or other groundwater collection device installed after the effective date of this amendatory ordinance may be used to supply any potable water supply system, except at points of withdrawal by the City of Chicago or by units of local government pursuant to intergovernmental agreement with the City of Chicago.*

SECTION 2. Section 2-30-030 of the Municipal Code of Chicago is hereby amended by deleting the language in brackets and inserting the language in italics, as follows:

2-30-030 Commissioner -- Powers And Duties Designated.

The commissioner of the environment shall have the following powers and duties:

\* \* \* \* \*

(21) To enter into grant agreements, cooperation agreements and other agreements or contracts with governmental entities, private business and civic and community groups necessary to implement the Green Streets Program and other urban forestry, beautification and environmental enhancement programs; *and agreements to implement the State of Illinois Site Remediation Program;*

SECTION 3. This ordinance shall be in full force and effect from and after its passage and approval.

ORIGINAL

STATE OF ILLINOIS, }  
County of Cook. } ss.

I, JAMES J. LASKI, City Clerk of the City of Chicago in the County of Cook and State of Illinois, DO HEREBY CERTIFY that the annexed and foregoing is a true and correct copy of that certain ordinance now on file in my office amending Title 11, Chapter 8 and Title 2, Chapter 30 of Municipal Code of Chicago by establishing the definition and regulation of the potable water supply system and Empowerment of Commissioner of Environment for Implementation of State of Illinois Site Remediation Program.

I DO FURTHER CERTIFY that the said ordinance was passed by the City Council of the said City of Chicago on the fourteenth (14th) day of May, A.D. 1997 and deposited in my office on the fourteenth (14th) day of May, A.D. 1997.

I DO FURTHER CERTIFY that the vote on the question of the passage of the said ordinance by the said City Council was taken by yeas and nays and recorded in the Journal of the Proceedings of the said City Council, and that the result of said vote so taken was as follows, to wit: Yeas 47, Nays none.

I DO FURTHER CERTIFY that the said ordinance was delivered to the Mayor of the said City of Chicago after the passage thereof by the said City Council, without delay, by the City Clerk of the said City of Chicago, and that the said Mayor did approve and sign the said ordinance on the fourteenth (14th) day of May, A.D. 1997.

I DO FURTHER CERTIFY that the original, of which the foregoing is a true copy, is entrusted to my care for safe keeping, and that I am the lawful keeper of the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the corporate seal of the City of Chicago aforesaid, at the said City, in the

[L.S.] County and State aforesaid, this third (3rd) day of February, A.D. 1998.

ORIGINAL

*James J. Laski*  
JAMES J. LASKI, City Clerk.

ORIGINAL

The following is said ordinance as passed:

*Be It Ordained by the City Council of the City of Chicago:*

SECTION 1. The Municipal Code of the City of Chicago is hereby amended by adding a new Section 11-8-390, as follows:

*11-8-390 Potable Water Wells.*

*For purposes of this section, "potable water" is any water used for human consumption, including but not limited to water used for drinking, bathing, washing dishes, preparing foods and watering gardens in which produce*

*intended for human consumption is grown. No groundwater well, cistern or other groundwater collection device installed after May 14, 1997, may be used to supply any potable water supply system, except at points of withdrawal by the City of Chicago or by a unit of local government pursuant to intergovernmental agreement with the City of Chicago.*

SECTION 2. This ordinance shall be in full force and effect from and after its passage and approval.

DRAFT

STATE OF ILLINOIS,-  
County of Cook. ss.

I, JAMES J. LASKI, City Clerk of the City of Chicago in the County of Cook and State of Illinois, DO HEREBY CERTIFY that the annexed and foregoing is a true and correct copy of that certain ordinance now on file in my office for an amendment of Title 11, Chapter 8 of Municipal Code of Chicago by addition of new Section 390 defining potable water and prohibiting use of certain groundwater collection device<sup>s</sup> to supply any potable water supply system.

I DO FURTHER CERTIFY that the said ordinance was adopted by the City Council of the said City of Chicago on the twenty-eighth (28th) day of November, A.D. 2001 and deposited in my office on the twenty-eighth (28th) day of November, A.D. 2001.

I DO FURTHER CERTIFY that the vote on the question of the adoption of the said ordinance by the said City Council was taken by yeas and nays and recorded in the Journal of the Proceedings of the said City Council, and that the result of said vote so taken was as follows, to wit:

Yeas 47, Nays 0.


I DO FURTHER CERTIFY that the said ordinance was delivered to the Mayor of the said City of Chicago after the adoption thereof by the said City Council, without delay, by the City Clerk of the said City of Chicago, and that the said Mayor failed to return the said ordinance to the said City Council with his written objections thereto at the next regular meeting of the said City Council occurring not less than five (5) days after the adoption of the said ordinance.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

I DO FURTHER CERTIFY that the original, of which the foregoing is a true copy, is entrusted to my care for safe keeping, and that I am the lawful keeper of the same.

[L.S.]

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the corporate seal of the City of Chicago aforesaid, at the said City, in the County and State aforesaid, this sixth (6th) day of December, A.D. 2001.

  
\_\_\_\_\_  
JAMES J. LASKI, City Clerk.





July 1, 1997

City of Chicago  
Richard M. Daley, Mayor

Department of Environment

Henry L. Henderson  
Commissioner

Twenty-fifth Floor  
30 North LaSalle Street  
Chicago, Illinois 60602-2575  
(312) 744-7406 (Voice)  
(312) 744-6451 (FAX)  
(312) 744-3586 (TTY)  
<http://www.ci.chi.il.us>

Mr. Gary P. King  
Manager, Division of Remediation Management  
Bureau of Land  
Illinois Environmental Protection Agency  
1001 N. Grand Avenue, East  
Springfield, IL 62702

Re: Chicago Ordinance No. 097990

Dear Mr. King:

Pursuant to 35 Ill. Adm. Code 742.1015(l)(2), Section 11-8-385 and 11-8-390 of the Municipal Code of Chicago, as amended by Ordinance No. 097990, apply to all areas within the corporate limits of the City of Chicago.

Sincerely,

Henry L. Henderson  
Commissioner

cc: Mort Ames  
Asst. Corp. Counsel

DRAFT



Please Recycle!

EXHIBIT  
B



SCREENED  
MM

**MEMORANDUM OF UNDERSTANDING BETWEEN THE CITY OF CHICAGO, ILLINOIS AND THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY REGARDING (A) THE USE OF A LOCAL POTABLE WATER SUPPLY WELL ORDINANCE AS AN ENVIRONMENTAL INSTITUTIONAL CONTROL AND (B) THE PROVISION OF INFORMATION RELATING TO "NO FURTHER REMEDIATION" DETERMINATIONS BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY TO THE CITY OF CHICAGO**

**I. PURPOSE AND INTENT**

- A. This Memorandum of Understanding ("MOU") is entered into between the City of Chicago, Illinois ("the City") and the Illinois Environmental Protection Agency ("Illinois EPA") for the purpose of (a) satisfying the requirements of 35 Ill. Adm. Code 742.1015 for the use of potable water supply well ordinances as environmental institutional controls and (b) ensuring that the City will be provided with copies of all "No Further Remediation" letters or determinations issued by the Illinois EPA pursuant to specific programs for sites located within the boundaries of Chicago, Illinois, in order to enable the City to maintain a complete and up-to-date registry of sites as required by 35 Ill. Adm. Code 742.1015(i)(5). The Illinois EPA has reviewed Sections 11-8-385 and 11-8-390 of the Municipal Code of Chicago as amended by Ordinance Number 097990 ("Potable Water Supply Well Ordinance"), attached as Attachment A, and has determined that the Municipal Code of Chicago prohibits the installation and use of new potable water supply wells by private entities but will allow the installation of potable water supply wells by the City and other units of local government pursuant to intergovernmental agreements with the City. In such cases, 35 Ill. Adm. Code 742.1015(a) provides that the City may enter into an MOU with the Illinois EPA to allow the use of the ordinance as an institutional control.
- B. The intent of this Memorandum of Understanding is to (a) specify the responsibilities that must be assumed by the City to satisfy the requirements for MOUs as set forth at 35 Ill. Adm. Code 742.1015(i), and (b) require the Illinois EPA to provide the City with copies of all "No Further Remediation" letters or determinations that the Illinois EPA issues for sites located within the City of Chicago to enable the City to maintain a registry of sites pursuant to 35 Ill. Adm. Code 742.1015(i)(5).

**II. DECLARATIONS AND ASSUMPTION OF RESPONSIBILITY**

- A. In order to ensure the long-term integrity of the Potable Water Supply Well Ordinance as an environmental institutional control and that risk to human health and the environment from contamination left in place in reliance on the Potable Water Supply Well Ordinance is effectively managed, the City hereby assumes the following responsibilities pursuant to 35 Ill. Adm. Code 742.1015(i):

1. The City will notify the Illinois EPA Bureau of Land of any changes to or requests for variance from the Potable Water Supply Well Ordinance at least 30 days prior to the date the local government is scheduled to take action on the proposed change or request (35 Ill. Adm. Code 742.1015(i)(4));
2. The City will maintain a registry of all sites within its corporate limits that have received "No Further Remediation" determinations from the Illinois EPA pursuant to specific programs (35 Ill. Adm. Code 742.1015(i)(5));
3. If the City determines to install a new potable water supply well(s), the City will review the registry of sites established under paragraph II.A.2. prior to siting such potable water supply well(s) within the area covered by the Potable Water Supply Well Ordinance, pursuant to 35 Ill. Adm. Code 742.1015(i)(6)(A);
4. If the City determines to install a new potable water supply well(s), the City will determine whether the potential source of potable water has been or may be affected by contamination left in place at the sites tracked and reviewed under paragraphs II.A.2. and 3. (35 Ill. Adm. Code 742.1015(i)(6)(B)); and
5. If the City determines to install a new potable water supply well(s), the City will take action as necessary to ensure that the potential source of potable water is protected from contamination or treated before it is used as a potable water supply (35 Ill. Adm. Code 742.1015(i)(6)(C));
6. If the City enters into intergovernmental agreements under Section 11-8-390 of the Municipal Code of Chicago to allow other units of local government to install new potable water supply well(s) within the corporate limits of the City, the City will require compliance with the procedures set forth in paragraphs II.A.3., 4., and 5. as a part of such agreements.
7. Notification under paragraph II.A.1. above, or other communications concerning this MOU directed to the Illinois EPA, shall be addressed to:

Manager, Division of Remediation Management  
Bureau of Land  
Illinois Environmental Protection Agency  
P.O. Box 19276  
Springfield, IL 62794-9276

- B. In order to ensure the long-term integrity of the Potable Water Supply Well Ordinance as an environmental institutional control and that risk to human health and the environment from contamination left in place in reliance on the Potable Water Supply Well Ordinance or other specific programs can be effectively managed, the Illinois EPA hereby assumes

the following responsibilities:

1. The Illinois EPA will provide the City with copies of all "No Further Remediation" letters or determinations that it issues pursuant to 35 Ill. Adm. Code 742, and other specific programs, for sites located within the boundaries of the City at the time said letters or determinations are provided to remediation applicants.
2. Copies of "No Further Remediation" letters or determinations provided to the City pursuant to paragraph II.B.1. above, or other communications concerning this MOU directed to the City, shall be addressed to:

Commissioner  
Chicago Department of Environment  
25th Floor  
30 North LaSalle Street  
Chicago, IL 60602-2575

### III. SUPPORTING DOCUMENTATION

The following documentation is required by 35 Ill. Adm. Code 742.1015(i) and is attached to this MOU:

- A. Attachment A: A copy of the Potable Water Supply Well Ordinance certified by the city clerk or other official as the current, controlling law (35 Ill. Adm. Code 742.1015(i)(3)) and a statement of the authority of the City to enter into the MOU (35 Ill. Adm. Code 742.1015(i)(1)).;
- B. Attachment B: Identification of the legal boundaries within which the Potable Water Supply Well Ordinance is applicable (35 Ill. Adm. Code 742.1015(i)(2)); and

IN WITNESS WHEREOF, the lawful representatives of the parties have caused this MOU to be signed as follows:

**FOR: The City of Chicago, Illinois**

BY: *Abel J. Henderson* DATE: *July 1, 1997*  
Commissioner  
Department of Environment  
City of Chicago

**FOR: Illinois Environmental Protection Agency**

BY: *Gary P. King* DATE: *July 3, 1997*  
(Name and title of signatory)  
Mgr, Division of Remediation Management  
Bureau of Land

Version 6/27/97



DEPARTMENT OF FLEET AND FACILITY MANAGEMENT  
CITY OF CHICAGO

March 2, 2012

Kyle Rominger  
Deputy Counsel  
Illinois Environmental Protection Agency  
1021 North Grand Avenue East, P.O. Box 19276  
Springfield, IL 62794-9276

Dear Mr. Rominger:

Enclosed is the executed original of the amendment to the agreement between the Illinois Environmental Protection Agency and the City of Chicago regarding the Use of a Local Potable Water Supply Well Ordinance.

Thank you for your assistance with these changes.

Sincerely,

Kimberly Worthington, P.E., LEED AP  
Deputy Commissioner  
Bureau of Environmental Management

Enclosure

**RECEIVED**  
Division of Legal Counsel

MAR 1 4 2012

Environmental Protection  
Agency

AGREEMENT TO AMEND THE MEMORANDUM OF UNDERSTANDING  
BETWEEN THE CITY OF CHICAGO ILLINOIS AND THE ILLINOIS ENVIRONMENTAL  
PROTECTION AGENCY REGARDING (A) THE USE OF A LOCAL POTABLE WATER  
SUPPLY WELL ORDINANCE AS AN ENVIRONMENTAL INSTITUTIONAL CONTROL  
AND (B) THE PROVISION OF INFORMATION RELATING TO "NO FURTHER  
REMEDICATION" DETERMINATIONS BY THE ILLINOS ENVIRONMENTAL  
PROTECTION AGENCY TO THE CITY OF CHICAGO

This agreement is made and entered into by and between the Illinois Environmental Protection Agency ("IEPA") and the City of Chicago ("CITY") to amend the above referenced Memorandum of Understanding dated July 1997 ("1997 MOU").

WHEREAS, the IEPA and CITY entered into the 1997 MOU for the purpose of (a) satisfying the requirements of 35 Ill. Adm. Code 742.1015 for the use of potable water supply well ordinances as environmental institutional controls and (b) ensuring that CITY will be provided copies of all "No Further Remediation" letters or determinations issued by IEPA pursuant to specific programs for sites located within the boundaries of Chicago, Illinois, in order to enable CITY to maintain a complete and up-to-date registry of sites as required by 35 Ill. Adm. Code 742.1015(i)(5); and

WHEREAS, the 1997 MOU provided at Section II B. 2. the address for copies of "No Further Remediation" letters, determinations, or other communications concerning the MOU to be directed to the CITY's Department of Environment at 25<sup>th</sup> Floor, 30 North LaSalle Street, Chicago, Illinois 60602; and

WHEREAS, a portion of the CITY's Department of Environment has been merged into the CITY's Department of Fleet and Facility Management as of January 1, 2012, and the 1997 MOU is now being administered by the CITY under its Department of Fleet and Facility Management; and

WHEREAS, the IEPA and CITY desire to correct the address to send copies of "No Further Remediation" letters, determinations, or other communications to the CITY listed at Section II B. 2. of the 1997 MOU; and

WHEREAS, the IEPA and CITY desire for all other provisions of the 1997 MOU to remain the same.

NOW, THEREFORE, IEPA and CITY hereby agree to amend that part of Section II B. 2. of the 1997 MOU that provides the address to send copies of "No Further Remediation" letters, determinations, or other communications to the CITY as follows, with all other parts of Section II B. 2. to remain the same:


Commissioner  
Chicago Department of Fleet and Facility Management  
30 North LaSalle Street  
Suite 300  
Chicago, Illinois 60602


Commissioner  
Chicago Department of Environment  
25th Floor  
30 North LaSalle Street  
Chicago, Illinois 60602-2575

By the signatures of their authorized representatives below, the IEPA and CITY acknowledge they have read and understand this agreement and intend for this agreement to take effect upon execution.

City of Chicago, by and through the  
Department of Fleet and Facility Management:

Illinois Environmental Protection Agency

  
\_\_\_\_\_  
David J. Reynolds  
Commissioner  
Department of Fleet and Facility Management

  
\_\_\_\_\_  
John L. Kim  
Interim Director

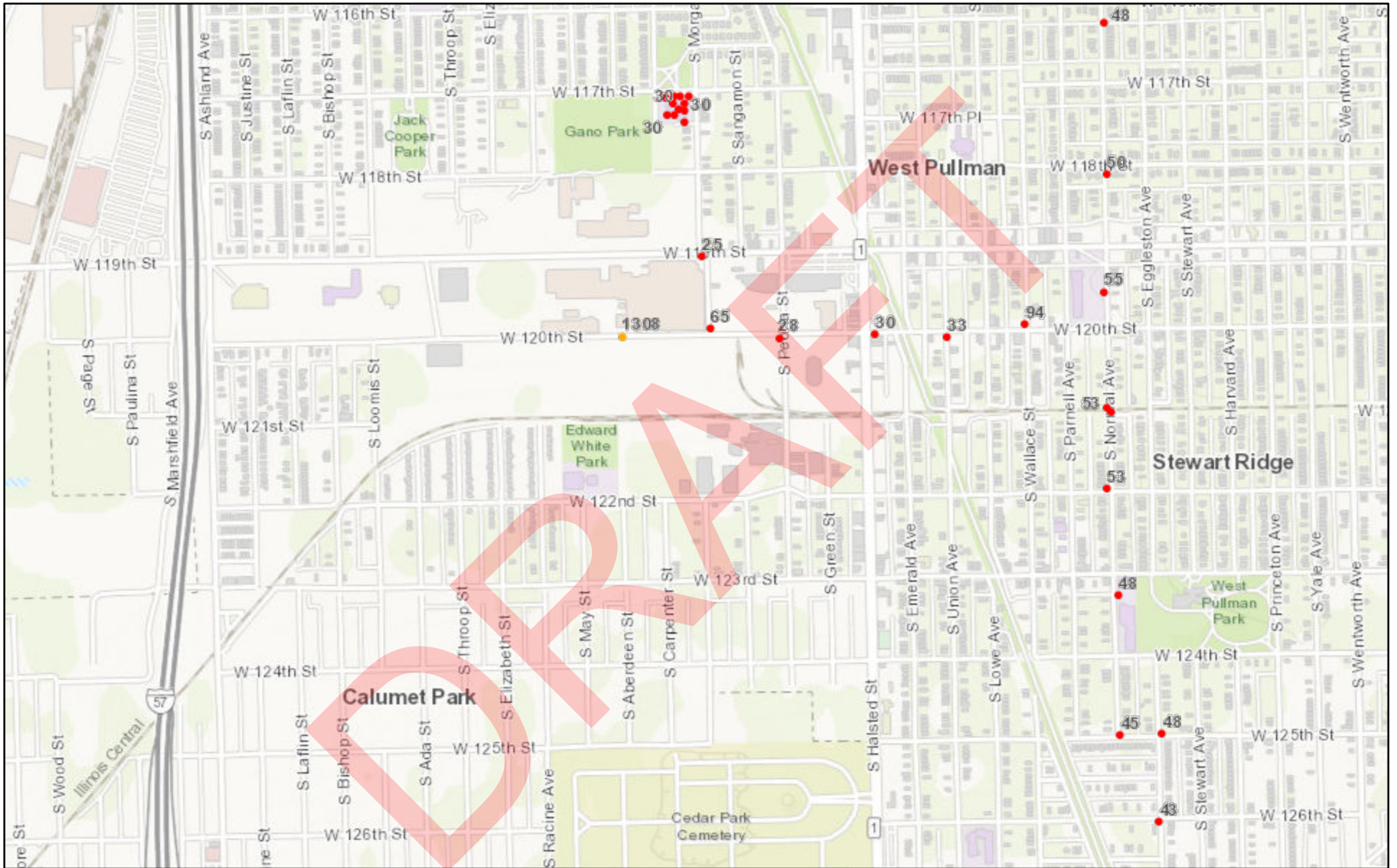
Date: 03/02/12

Date: 2/22/12

DRAFT

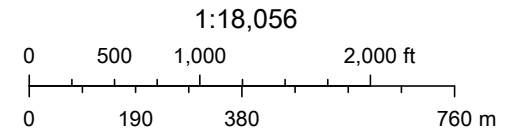


# SWAP and CWS Map



12/12/2018, 3:47:47 PM

- |                         |                 |                |                                   |
|-------------------------|-----------------|----------------|-----------------------------------|
| Water and Related Wells | • Engineering   | ▲ Mineral Test | ▼ Hazardous Waste or Leaking Tank |
| • Water                 | • Stratigraphic | • Outcrop      | Labels - Total Depth              |
| • Dry                   | ○ Observation   | • Mine-related | □ Counties                        |



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS,

Web AppBuilder for ArcGIS

City of Chicago, County of Will, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA | Provided by Illinois State Geological Survey | Digital orthoimages were completed by Merrick & Company, Greenwood Village, Colorado. Aerial photography was

# Domestic Wells Database

## Domestic Wells Database

Townships for Cook county

Please choose a **township** below:

[35N](#) [41N](#)

[36N](#) [42N](#)

[37N](#)

[38N](#)

[39N](#)

[40N](#)

[Search for a different County.](#)

| [DWD Home](#) | [Meta Data](#) | [Location System](#) | [Disclaimer](#) | [Contact Us](#) | [Help](#) |  
| [Domestic Wells Database Home](#) |

## Illinois State Water Survey

2204 Griffith Dr., MC-674  
Champaign, IL 61820-7463  
217-244-5459

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# Domestic Wells Database

## Domestic Wells Database

Ranges for 37N township, Cook county

Please choose a **range** below:

[11E](#)

[12E](#)

[13E](#)

[14E](#)

[Search for a different Township](#)

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| [Domestic Wells Database Home](#) |

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# Domestic Wells Database

## Domestic Wells Database

Sections for 14E range, 37N township, Cook county

Please choose a **section** below:

[31](#)

[32](#)

[34](#)

[36](#)

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# EPA On-line Tools for Site Assessment Calculation

[Module Home](#) [Objectives](#) [Table of Contents](#) [Previous <](#) [Next >](#)

**Hydraulic Gradient**

**Gradient Calculation** from fitting a plane to three points

$$a x_1 + b y_1 + c = h_1$$

$$a x_2 + b y_2 + c = h_2$$

$$a x_3 + b y_3 + c = h_3$$

where  $(x_i, y_i)$  are the coordinates of the well and  $h_i$  is the head

$i = 1, 2, 3$

The gradient is calculated from the square root of  $(a^2 + b^2)$  and the angle from the arctangent of  $a/b$  or  $b/a$  depending on the quadrant

Example Data Set 1

Site Name Engine Co 115 Site B

Date 12/13/2018

Calculation basis Head

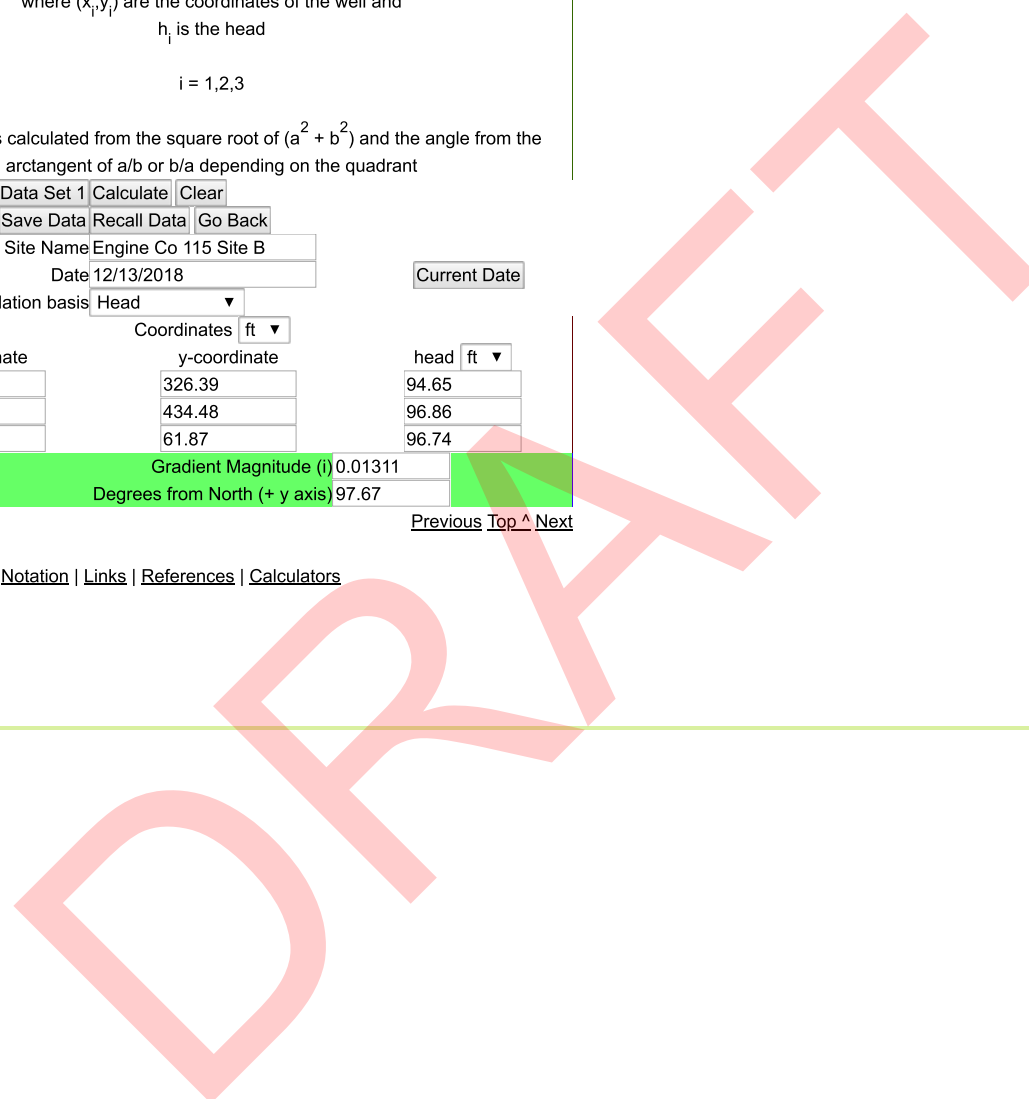
Coordinates ft

x-coordinate	y-coordinate	head ft <input type="text"/>
234.42	326.39	94.65
78.85	434.48	96.86
37.91	61.87	96.74

Gradient Magnitude (i) 0.01311

Degrees from North (+ y axis) 97.67

[Home](#) | [Glossary](#) | [Notation](#) | [Links](#) | [References](#) | [Calculators](#)



## **Appendix C**

### **Laboratory Accreditations**

**DRAFT**



**STATE OF ILLINOIS  
ENVIRONMENTAL PROTECTION AGENCY  
NELAP - RECOGNIZED**



**ENVIRONMENTAL LABORATORY ACCREDITATION**

is hereby granted to

**STAT ANALYSIS CORPORATION  
2242 WEST HARRISON STREET  
CHICAGO, IL 60612**

**NELAP ACCREDITED  
ACCREDITATION NUMBER #100445**



According to the Illinois Administrative Code, Title 35, Subtitle A, Chapter II, Part 186, ACCREDITATION OF LABORATORIES FOR DRINKING WATER, WASTEWATER AND HAZARDOUS WASTES ANALYSIS, the State of Illinois formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed below.

The laboratory agrees to perform all analyses listed on this scope of accreditation according to the Part 186 requirements and acknowledges that continued accreditation is dependent on successful ongoing compliance with the applicable requirements of Part 186. Please contact the Illinois EPA Environmental Laboratory Accreditation Program (IL ELAP) to verify the laboratory's scope of accreditation and accreditation status. Accreditation by the State of Illinois is not an endorsement or a guarantee of validity of the data generated by the laboratory.

*Celeste M. Crowley*

Celeste M. Crowley  
Acting Manager  
Environmental Laboratory Accreditation Program

*John D. South*

John South  
Accreditation Officer  
Environmental Laboratory Accreditation Program

Certificate No.: 004521  
Expiration Date: 09/30/2019  
Issued On: 09/26/2018

**State of Illinois  
Environmental Protection Agency**

Certificate No.: 004521

**Awards the Certificate of Approval to:**

STAT Analysis Corporation  
2242 West Harrison Street  
Chicago, IL 60612

According to the Illinois Administrative Code, Title 35, Subtitle A, Chapter II, Part 186, ACCREDITATION OF LABORATORIES FOR DRINKING WATER, WASTEWATER AND HAZARDOUS WASTES ANALYSIS, the State of Illinois formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed below.

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**FOT Name: Drinking Water, Inorganic**

**Method: USEPA200.8R5.4**

**Matrix Type: Potable Water**

Aluminum	Antimony
Arsenic	Barium
Beryllium	Cadmium
Chromium	Copper
Lead	Manganese
Molybdenum	Nickel
Selenium	Silver
Thallium	Zinc

**FOT Name: Non Potable Water, Inorganic**

**Method: SM2310B,1997**

**Matrix Type: NPW**

Acidity

**Method: SM2320B,1997**

**Matrix Type: NPW**

Alkalinity

**Method: SM2540B,1997**

**Matrix Type: NPW**

Residue (Total)

**Method: SM2540C,1997**

**Matrix Type: NPW**

Residue (TDS)

**Method: SM2540D,1997**

**Matrix Type: NPW**

Residue (TSS)

**Method: SM2540E,1997**

**Matrix Type: NPW/SCM**

Residue (% Volatile)



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**FOT Name: Non Potable Water, Inorganic**

**Method: SM2540F,1997**

**Matrix Type: NPW**

Residue (settleable)

**Method: SM3500Cr-B,2009**

**Matrix Type: NPW/SCM**

Chromium VI

**Method: SM4500Cl-G,2000**

**Matrix Type: NPW**

Chlorine, Total Residual

**Method: SM4500CN-E,1999**

**Matrix Type: NPW**

Cyanide

**Method: SM4500H-B,2000**

**Matrix Type: NPW**

Hydrogen Ion (pH)

**Method: SM4500NH3-G,1997**

**Matrix Type: NPW**

Ammonia

**Method: SM4500NO3-F,2000**

**Matrix Type: NPW/SCM**

Nitrate

Nitrate-nitrite (as N)

Nitrite (as N)

**Method: SM4500P-E,1999**

**Matrix Type: NPW**

Orthophosphate

Phosphorus

**Method: USEPA120.1,1982**

**Matrix Type: NPW/SCM**

Specific Conductance

**Method: USEPA150.2,1982**

**Matrix Type: NPW/SCM**

Hydrogen Ion (pH)

**Method: USEPA1664A**

**Matrix Type: NPW/SCM**

Oil and Grease

**Method: USEPA200.8,1994**

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**FOT Name: Non Potable Water, Inorganic**

**Method: USEPA200.8,1994**

**Matrix Type: NPW/SCM**

Aluminum	Antimony
Arsenic	Barium
Beryllium	Boron
Cadmium	Chromium
Cobalt	Copper
Iron	Lead
Manganese	Molybdenum
Nickel	Selenium
Silver	Thallium
Tin	Vanadium
Zinc	

**Method: USEPA245.1R3.0,1994**

**Matrix Type: NPW/SCM**

Mercury

**Method: USEPA410.4R2.0,1993**

**Matrix Type: NPW/SCM**

Chemical Oxygen Demand (COD)

**Method: USEPA420.4R1.0,1993**

**Matrix Type: NPW/SCM**

Phenolics

**FOT Name: Non Potable Water, Organic**

**Method: USEPA608**

**Matrix Type: NPW/SCM**

4,4'-DDD	4,4'-DDE
4,4'-DDT	Aldrin
alpha-BHC	beta-BHC
Chlordane	delta-BHC
Dieldrin	Endosulfan I
Endosulfan II	Endosulfan sulfate
Endrin	Endrin aldehyde
gamma-BHC (Lindane)	Heptachlor
Heptachlor epoxide	Methoxychlor
PCB-1016	PCB-1221

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**FOT Name: Non Potable Water, Organic**

**Method: USEPA608**

**Matrix Type: NPW/SCM**

PCB-1242

PCB-1254

Toxaphene

PCB-1232

PCB-1248

PCB-1260

**Method: USEPA624**

**Matrix Type: NPW/SCM**

1,1,1-Trichloroethane

1,1,2-Trichloroethane

1,1-Dichloroethene

1,2-Dichloroethane

1,3-Dichlorobenzene

2-Chloroethylvinyl ether

Acrylonitrile

Bromodichloromethane

Bromomethane

Chlorobenzene

Chloroform

cis-1,3-Dichloropropene

Dichloromethane (Methylene chloride)

Methyl tert-butyl ether (MTBE)

Toluene

trans-1,3-Dichloropropene

Trichlorofluoromethane

Xylenes (total)

1,1,2,2-Tetrachloroethane

1,1-Dichloroethane

1,2-Dichlorobenzene

1,2-Dichloropropane

1,4-Dichlorobenzene

Acrolein (Propenal)

Benzene

Bromoform

Carbon tetrachloride

Chloroethane

Chloromethane

Dibromochloromethane

Ethylbenzene

Tetrachloroethene

trans-1,2-Dichloroethene

Trichloroethene

Vinyl chloride

**Method: USEPA625**

**Matrix Type: NPW/SCM**

1,2,4-Trichlorobenzene

1,3-Dichlorobenzene

2,2-Oxybis (2-chloropropane)

2,4,6-Trichlorophenol

2,4-Dimethylphenol

2,4-Dinitrotoluene (2,4-DNT)

2-Chloronaphthalene

2-Methyl-4,6-dinitrophenol

1,2-Dichlorobenzene

1,4-Dichlorobenzene

2,4,5-Trichlorophenol

2,4-Dichlorophenol

2,4-Dinitrophenol

2,6-Dinitrotoluene (2,6-DNT)

2-Chlorophenol

2-Nitrophenol

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**FOT Name: Non Potable Water, Organic**

**Method: USEPA625**

**Matrix Type: NPW/SCM**

4-Bromophenyl phenyl ether  
4-Chlorophenyl phenyl ether  
Acenaphthene  
Anthracene  
Benzo(a)anthracene  
Benzo(b)fluoranthene  
Benzo(k)fluoranthene  
Bis(2-chloroethoxy) methane  
Bis(2-ethylhexyl) phthalate  
Dibenz(a,h)anthracene  
Dimethyl phthalate  
Di-n-octyl phthalate  
Fluorene  
Hexachlorobutadiene  
Hexachloroethane  
Isophorone  
Nitrobenzene  
N-Nitrosodi-n-propylamine  
Pentachlorophenol  
Phenol

3,3'-Dichlorobenzidine  
4-Chloro-3-methylphenol  
4-Nitrophenol  
Acenaphthylene  
Benzidine  
Benzo(a)pyrene  
Benzo(g,h,i)perylene  
Benzyl butyl phthalate  
Bis(2-chloroethyl) ether  
Chrysene  
Diethyl phthalate  
Di-n-butyl phthalate  
Fluoranthene  
Hexachlorobenzene  
Hexachlorocyclopentadiene  
Indeno(1,2,3-cd) pyrene  
Naphthalene  
N-Nitrosodimethylamine  
N-Nitrosodiphenylamine  
Phenanthrene  
Pyrene

**FOT Name: Solid and Chemical Materials, Inorganic**

**Method: 1010A**

**Matrix Type: SCM**

Ignitability

**Method: 1311**

**Matrix Type: NPW/SCM**

TCLP (Organic and Inorganic)

**Method: 1312**

**Matrix Type: NPW/SCM**

Synthetic Precipitation Leaching Procedure

**Method: 6020A**

**Matrix Type: NPW/SCM**

Aluminum

Antimony

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**FOT Name: Solid and Chemical Materials, Inorganic**

**Method: 6020A**

**Matrix Type: NPW/SCM**

Barium  
Boron  
Calcium  
Cobalt  
Iron  
Magnesium  
Molybdenum  
Potassium  
Silver  
Thallium  
Zinc

Arsenic  
Beryllium  
Cadmium  
Chromium  
Copper  
Lead  
Manganese  
Nickel  
Selenium  
Sodium  
Vanadium

**Method: 7000B**

**Matrix Type: NPW/SCM**

Lead

**Method: 7196A**

**Matrix Type: NPW/SCM**

Chromium VI

**Method: 7470A**

**Matrix Type: NPW**

Mercury

**Method: 7471B**

**Matrix Type: NPW/SCM**

Mercury

**Method: 9023**

**Matrix Type: NPW/SCM**

EOX-Extractable Organic Halides

**Method: 9040B**

**Matrix Type: NPW**

Hydrogen Ion (pH)

**Method: 9040C**

**Matrix Type: NPW**

Hydrogen Ion (pH)

**Method: 9045C**

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**FOT Name: Solid and Chemical Materials, Inorganic**

**Method: 9045C**

**Matrix Type: SCM**

Hydrogen Ion (pH)

**Method: 9045D**

**Matrix Type: SCM**

Hydrogen Ion (pH)

**Method: 9066**

**Matrix Type: NPW/SCM**

Phenolics

**Method: 9071B**

**Matrix Type: NPW/SCM**

Oil and Grease Extractable

**Method: 9095A**

**Matrix Type: NPW/SCM**

Paint Filter

**Method: 9095B**

**Matrix Type: NPW/SCM**

Paint Filter

**FOT Name: Solid and Chemical Materials, Organic**

**Method: 8015B**

**Matrix Type: NPW/SCM**

Diesel range organics (DRO)

Ethylene glycol

Gasoline range organics (GRO)

**Method: 8015C**

**Matrix Type: NPW/SCM**

Diesel range organics (DRO)

Gasoline range organics (GRO)

**Method: 8081A**

**Matrix Type: NPW/SCM**

4,4'-DDD

4,4'-DDE

4,4'-DDT

Aldrin

alpha-BHC

alpha-Chlordane

beta-BHC

Chlordane - not otherwise specified

delta-BHC

Dieldrin

Endosulfan I

Endosulfan II

Endosulfan sulfate

Endrin

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**FOT Name: Solid and Chemical Materials, Organic**

**Method: 8081A**

**Matrix Type: NPW/SCM**

Endrin ketone  
gamma-Chlordane  
Heptachlor epoxide  
Toxaphene

Endrin aldehyde  
gamma-BHC (Lindane)  
Heptachlor  
Methoxychlor

**Method: 8081B**

**Matrix Type: NPW/SCM**

4,4'-DDD  
4,4'-DDT  
alpha-BHC  
beta-BHC  
delta-BHC  
Endosulfan I  
Endosulfan sulfate  
Endrin aldehyde  
gamma-BHC (Lindane)  
Heptachlor  
Methoxychlor

4,4'-DDE  
Aldrin  
alpha-Chlordane  
Chlordane - not otherwise specified  
Dieldrin  
Endosulfan II  
Endrin  
Endrin ketone  
gamma-Chlordane  
Heptachlor epoxide  
Toxaphene

**Method: 8082**

**Matrix Type: NPW/SCM**

PCB-1016  
PCB-1232  
PCB-1248  
PCB-1260

PCB-1221  
PCB-1242  
PCB-1254

**Method: 8082A**

**Matrix Type: NPW/SCM**

PCB-1016  
PCB-1232  
PCB-1248  
PCB-1260

PCB-1221  
PCB-1242  
PCB-1254

**Method: 8260B**

**Matrix Type: NPW/SCM**

1,1,1,2-Tetrachloroethane  
1,1,2,2-Tetrachloroethane

1,1,1-Trichloroethane  
1,1,2-Trichloroethane

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**FOT Name: Solid and Chemical Materials, Organic**

**Method: 8260B**

**Matrix Type: NPW/SCM**

1,1-Dichloroethene	1,1-Dichloroethane
1,2,3-Trichlorobenzene	1,1-Dichloropropene
1,2,4-Trichlorobenzene	1,2,3-Trichloropropane
1,2-Dibromo-3-chloropropane (DBCP)	1,2,4-Trimethylbenzene
1,2-Dichlorobenzene	1,2-Dibromoethane (EDB)
1,2-Dichloropropane	1,2-Dichloroethane
1,3-Dichlorobenzene	1,3,5-Trimethylbenzene
1,4-Dichlorobenzene	1,3-Dichloropropane
2,2-Dichloropropane	1,4-Dioxane
2-Chloroethyl vinyl ether	2-Butanone (Methyl ethyl ketone, MEK)
2-Hexanone	2-Chlorotoluene
2-Nitropropane	2-Methyl-1-propanol (Isobutyl alcohol)
4-Chlorotoluene	2-Propanol (Isopropyl alcohol)
Acetone	4-Methyl-2-pentanone (Methyl isobutyl ketone, MIBK)
Acrylonitrile	Acrolein (Propenal)
Bromobenzene	Benzene
Bromodichloromethane	Bromochloromethane
Bromomethane	Bromoform
Carbon tetrachloride	Carbon disulfide
Chlorodibromomethane (Dibromochloromethane)	Chlorobenzene
Chloroform	Chloroethane
cis-1,2-Dichloroethene	Chloromethane
Dibromomethane	cis-1,3-Dichloropropene
Dichloromethane (Methylene chloride)	Dichlorodifluoromethane
Ethyl acetate	Diethyl ether
Ethylbenzene	Ethyl ether
Isopropylbenzene	Hexachlorobutadiene
Methyl isobutyl ketone	Methyl ethyl ketone
m-Xylene	Methyl-t-butyl ether
n-Butanol	Naphthalene
o-Xylene	n-Butylbenzene
p-Xylene	p-Isopropyltoluene
Styrene	sec-Butylbenzene
Tetrachloroethene	tert-Butylbenzene
	Tetrahydrofuran



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**FOT Name: Solid and Chemical Materials, Organic**

**Method: 8260B**

**Matrix Type: NPW/SCM**

trans-1,2-Dichloroethene  
Trichloroethene  
Trichlorotrifluoroethane  
Vinyl chloride

Toluene  
trans-1,3-Dichloropropene  
Trichlorofluoromethane  
Vinyl acetate  
Xylenes (Total)

**Method: 8260C**

**Matrix Type: NPW/SCM**

1,1,1,2-Tetrachloroethane  
1,1,2,2-Tetrachloroethane  
1,1-Dichloroethane  
1,1-Dichloropropene  
1,2,3-Trichloropropane  
1,2,4-Trimethylbenzene  
1,2-Dibromoethane  
1,2-Dichloroethane  
1,3,5-Trimethylbenzene  
1,3-Dichlorobenzene  
1,4-Dioxane  
2-Butanone (MEK)  
2-Chlorotoluene  
2-Nitropropane  
4-Methyl-2-pentanone (MIBK)  
Acrolein (Propenal)  
Benzene  
Bromochloromethane  
Bromoform  
Carbon disulfide  
Chlorobenzene  
Chloroethane  
Chloromethane  
cis-1,3-Dichloropropene  
Dichlorodifluoromethane  
Ethyl acetate  
Isopropylbenzene  
m-Xylene

1,1,1-Trichloroethane  
1,1,2-Trichloroethane  
1,1-Dichloroethene  
1,2,3-Trichlorobenzene  
1,2,4-Trichlorobenzene  
1,2-Dibromo-3-chloropropane  
1,2-Dichlorobenzene  
1,2-Dichloropropane  
1,3-Dichloro-2-propanol  
1,3-Dichloropropane  
2,2-Dichloropropane  
2-Chloroethyl vinyl ether  
2-Hexanone  
4-Chlorotoluene  
Acetone  
Acrylonitrile  
Bromobenzene  
Bromodichloromethane  
Bromomethane  
Carbon tetrachloride  
Chlorodibromomethane  
Chloroform  
cis-1,2-Dichloroethene  
Dibromomethane  
Diethyl ether  
Ethylbenzene  
Methyl tert-butyl ether (MTBE)  
Naphthalene

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**FOT Name: Solid and Chemical Materials, Organic**

**Method: 8260C**

**Matrix Type: NPW/SCM**

n-Butylbenzene  
p-Isopropyltoluene  
sec-Butylbenzene  
tert-Butylbenzene  
Toluene  
trans-1,3-Dichloropropene  
Trichlorofluoromethane  
Vinyl chloride

n-Butanol  
o-Xylene  
p-Xylene  
Styrene  
Tetrachloroethene  
trans-1,2-Dichloroethene  
Trichloroethene  
Vinyl acetate

**Method: 8270C**

**Matrix Type: NPW/SCM**

1,2,4-Trichlorobenzene  
1,2-Diphenylhydrazine  
1,4-Dichlorobenzene  
1-Methylnaphthalene  
2,4,5-Trichlorophenol  
2,4-Dichlorophenol  
2,4-Dinitrophenol  
2,6-Dinitrotoluene (2,6-DNT)  
2-Chlorophenol  
2-Methylphenol (o-Cresol)  
2-Nitrophenol  
3-Nitroaniline  
4-Bromophenyl phenyl ether  
4-Chloroaniline  
4-Methylphenol (p-Cresol)  
4-Nitrophenol  
Acenaphthylene  
Anthracene  
Benzo(a)anthracene  
Benzo(b)fluoranthene  
Benzo(k)fluoranthene  
Benzyl alcohol  
Bis(2-chloroethyl) ether  
Butyl benzyl phthalate

1,2-Dichlorobenzene  
1,3-Dichlorobenzene  
1,4-Dinitrobenzene  
2,2-Oxybis (1-chloropropane)  
2,4,6-Trichlorophenol  
2,4-Dimethylphenol  
2,4-Dinitrotoluene (2,4-DNT)  
2-Chloronaphthalene  
2-Methylnaphthalene  
2-Nitroaniline  
3,3'-Dichlorobenzidine  
4,6-Dinitro-2-methylphenol  
4-Chloro-3-methylphenol  
4-Chlorophenyl phenyl ether  
4-Nitroaniline  
Acenaphthene  
Aniline  
Benzidine  
Benzo(a)pyrene  
Benzo(g,h,i)perylene  
Benzoic acid  
Bis(2-chloroethoxy) methane  
Bis(2-ethylhexyl) phthalate  
Carbazole

**State of Illinois**  
**Environmental Protection Agency**  
**Awards the Certificate of Approval**

Certificate No.: 004521

STAT Analysis Corporation  
2242 West Harrison Street  
Chicago, IL 60612

**FOT Name: Solid and Chemical Materials, Organic**

**Method: 8270C**

**Matrix Type: NPW/SCM**

Dibenz(a,h)anthracene  
Diethyl phthalate  
Di-n-butyl phthalate  
Diphenylamine  
Fluorene  
Hexachlorobutadiene  
Hexachloroethane  
Isophorone  
Naphthalene  
N-Nitrosodimethylamine  
N-Nitrosodiphenylamine  
p-Cresol (4-Methylphenol)  
Phenanthrene  
Pyrene

Chrysene  
Dibenzofuran  
Dimethyl phthalate  
Di-n-octyl phthalate  
Fluoranthene  
Hexachlorobenzene  
Hexachlorocyclopentadiene  
Indeno(1,2,3-cd) pyrene  
m-Cresol (3-Methylphenol)  
Nitrobenzene  
N-Nitrosodi-n-propylamine  
o-Cresol (2-Methylphenol)  
Pentachlorophenol  
Phenol  
Pyridine

**Method: 8270D**

**Matrix Type: NPW/SCM**

1,2,4-Trichlorobenzene  
1,2-Diphenylhydrazine  
1,4-Dichlorobenzene  
1-Methylnaphthalene  
2,4,5-Trichlorophenol  
2,4-Dichlorophenol  
2,4-Dinitrophenol  
2,6-Dinitrotoluene (2,6-DNT)  
2-Chlorophenol  
2-Methylphenol (o-Cresol)  
2-Nitrophenol  
3-Nitroaniline  
4-Bromophenyl phenyl ether  
4-Chloroaniline  
4-Nitroaniline  
Acenaphthene  
Aniline  
Benzidine

1,2-Dichlorobenzene  
1,3-Dichlorobenzene  
1,4-Dinitrobenzene  
2,2-Oxybis (1-chloropropane)  
2,4,6-Trichlorophenol  
2,4-Dimethylphenol  
2,4-Dinitrotoluene (2,4-DNT)  
2-Chloronaphthalene  
2-Methylnaphthalene  
2-Nitroaniline  
3,3'-Dichlorobenzidine  
4,6-Dinitro-2-methylphenol  
4-Chloro-3-methylphenol  
4-Chlorophenyl phenyl ether  
4-Nitrophenol  
Acenaphthylene  
Anthracene  
Benzo(a)anthracene

**State of Illinois**  
**Environmental Protection Agency**  
**Awards the Certificate of Approval**

Certificate No.: 004521

STAT Analysis Corporation  
2242 West Harrison Street  
Chicago, IL 60612

**FOT Name: Solid and Chemical Materials, Organic**

**Method: 8270D**

**Matrix Type: NPW/SCM**

Benzo(b)fluoranthene  
Benzo(k)fluoranthene  
Benzyl alcohol  
Bis(2-chloroethyl) ether  
Butyl benzyl phthalate  
Chrysene  
Dibenzofuran  
Dimethyl phthalate  
Di-n-octyl phthalate  
Fluoranthene  
Hexachlorobenzene  
Hexachlorocyclopentadiene  
Indeno(1,2,3-cd) pyrene  
m-Cresol (3-Methylphenol)  
Nitrobenzene  
N-Nitrosodi-n-propylamine  
o-Cresol (2-Methylphenol)  
Pentachlorophenol  
Phenol  
Pyridine

Benzo(a)pyrene  
Benzo(g,h,i)perylene  
Benzoic acid  
Bis(2-chloroethoxy) methane  
Bis(2-ethylhexyl) phthalate  
Carbazole  
Dibenz(a,h)anthracene  
Diethyl phthalate  
Di-n-butyl phthalate  
Diphenylamine  
Fluorene  
Hexachlorobutadiene  
Hexachloroethane  
Isophorone  
Naphthalene  
N-Nitrosodimethylamine  
N-Nitrosodiphenylamine  
p-Cresol (4-Methylphenol)  
Phenanthrene  
Pyrene

**Method: 8321B**

**Matrix Type: NPW/SCM**

2,4,5-T  
2,4-D  
Dalapon  
Dichlorprop  
MCPA

2,4,5-TP (Silvex)  
2,4-DB  
Dicamba  
Dinoseb  
MCPP

**Appendix D**

**Laboratory Analytical Reports**

DRAFT

**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

December 07, 2018

Carnow, Conibear, & Associates  
600 W. Van Buren Street  
Chicago, IL 60607

Telephone: (312) 782-4486  
Fax: (312) 782-5145

Analytical Report for STAT Work Order: 18100532 Revision 1

RE: 115 Fire Station Site B, S. Morgan St. & 119th St., Chicago

Dear Nohemi Melero:

STAT Analysis received 3 samples for the referenced project on 10/16/2018 3:04:00 PM. The analytical results are presented in the following report.

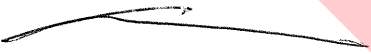
This report is revised to reflect additional analysis requested after the last report revision.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAP standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Craig Chawla  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Carnow, Conibear, & Associates**Project:** 115 Fire Station Site B, S. Morgan St. & 119th St., Chi **Work Order Sample Summary****Work Order:** 18100532 Revision 1

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Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
18100532-001A	B-107 B (1-3)		10/16/2018 12:28:00 PM	10/16/2018
18100532-001B	B-107 B (1-3)		10/16/2018 12:28:00 PM	10/16/2018
18100532-002A	B-111 B (1-3)		10/16/2018 12:11:00 PM	10/16/2018
18100532-002B	B-111 B (1-3)		10/16/2018 12:11:00 PM	10/16/2018
18100532-003A	B-106 B (1-3)		10/16/2018 12:47:00 PM	10/16/2018
18100532-003B	B-106 B (1-3)		10/16/2018 12:47:00 PM	10/16/2018

DRAFT

**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 07, 2018

**ANALYTICAL RESULTS**

Date Printed: December 07, 2018

Client: Carnow, Conibear, &amp; Associates

Client Sample ID: B-107 B (1-3)

Work Order: 18100532 Revision 1

Collection Date: 10/16/2018 12:28:00 PM

Project: 115 Fire Station Site B, S. Morgan St. &amp; 119th St.,

Matrix: Soil

Lab ID: 18100532-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: 10/16/2018		Analyst: MJK
Acetone	ND	0.092		mg/Kg-dry	1	10/17/2018
Benzene	ND	0.0061		mg/Kg-dry	1	10/17/2018
Bromodichloromethane	ND	0.0061		mg/Kg-dry	1	10/17/2018
Bromoform	ND	0.0061		mg/Kg-dry	1	10/17/2018
Bromomethane	ND	0.012		mg/Kg-dry	1	10/17/2018
2-Butanone	ND	0.092		mg/Kg-dry	1	10/17/2018
Carbon disulfide	ND	0.061		mg/Kg-dry	1	10/17/2018
Carbon tetrachloride	ND	0.0061		mg/Kg-dry	1	10/17/2018
Chlorobenzene	ND	0.0061		mg/Kg-dry	1	10/17/2018
Chloroethane	ND	0.012		mg/Kg-dry	1	10/17/2018
Chloroform	ND	0.0061		mg/Kg-dry	1	10/17/2018
Chloromethane	ND	0.012		mg/Kg-dry	1	10/17/2018
Dibromochloromethane	ND	0.0061		mg/Kg-dry	1	10/17/2018
1,1-Dichloroethane	ND	0.0061		mg/Kg-dry	1	10/17/2018
1,2-Dichloroethane	ND	0.0061		mg/Kg-dry	1	10/17/2018
1,1-Dichloroethene	ND	0.0061		mg/Kg-dry	1	10/17/2018
cis-1,2-Dichloroethene	ND	0.0061		mg/Kg-dry	1	10/17/2018
trans-1,2-Dichloroethene	ND	0.0061		mg/Kg-dry	1	10/17/2018
1,2-Dichloropropane	ND	0.0061		mg/Kg-dry	1	10/17/2018
cis-1,3-Dichloropropene	ND	0.0025		mg/Kg-dry	1	10/17/2018
trans-1,3-Dichloropropene	ND	0.0025		mg/Kg-dry	1	10/17/2018
Ethylbenzene	ND	0.0061		mg/Kg-dry	1	10/17/2018
2-Hexanone	ND	0.025		mg/Kg-dry	1	10/17/2018
4-Methyl-2-pentanone	ND	0.025		mg/Kg-dry	1	10/17/2018
Methylene chloride	ND	0.012		mg/Kg-dry	1	10/17/2018
Methyl tert-butyl ether	ND	0.0061		mg/Kg-dry	1	10/17/2018
Styrene	ND	0.0061		mg/Kg-dry	1	10/17/2018
1,1,2,2-Tetrachloroethane	ND	0.0061		mg/Kg-dry	1	10/17/2018
Tetrachloroethene	ND	0.0061		mg/Kg-dry	1	10/17/2018
Toluene	ND	0.0061		mg/Kg-dry	1	10/17/2018
1,1,1-Trichloroethane	ND	0.0061		mg/Kg-dry	1	10/17/2018
1,1,2-Trichloroethane	ND	0.0061		mg/Kg-dry	1	10/17/2018
Trichloroethene	ND	0.0061		mg/Kg-dry	1	10/17/2018
Vinyl chloride	ND	0.0061		mg/Kg-dry	1	10/17/2018
Xylenes, Total	ND	0.018		mg/Kg-dry	1	10/17/2018
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 10/17/2018		Analyst: DM
Acenaphthene	ND	0.044		mg/Kg-dry	1	10/17/2018
Acenaphthylene	ND	0.044		mg/Kg-dry	1	10/17/2018

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded



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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 07, 2018

**ANALYTICAL RESULTS**

Date Printed: December 07, 2018

Client: Carnow, Conibear, &amp; Associates

Client Sample ID: B-107 B (1-3)

Work Order: 18100532 Revision 1

Collection Date: 10/16/2018 12:28:00 PM

Project: 115 Fire Station Site B, S. Morgan St. &amp; 119th St.,

Matrix: Soil

Lab ID: 18100532-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C (SW3550B)</b>				Prep Date: 10/17/2018	Analyst: DM
Aniline	ND	0.45		mg/Kg-dry	1	10/17/2018
Anthracene	ND	0.044		mg/Kg-dry	1	10/17/2018
Benz(a)anthracene	ND	0.044		mg/Kg-dry	1	10/17/2018
Benzidine	ND	0.44		mg/Kg-dry	1	10/17/2018
Benzo(a)pyrene	ND	0.044		mg/Kg-dry	1	10/17/2018
Benzo(b)fluoranthene	ND	0.044		mg/Kg-dry	1	10/17/2018
Benzo(g,h,i)perylene	ND	0.044		mg/Kg-dry	1	10/17/2018
Benzo(k)fluoranthene	ND	0.044		mg/Kg-dry	1	10/17/2018
Benzoic acid	ND	1.1		mg/Kg-dry	1	10/17/2018
Benzyl alcohol	ND	0.23		mg/Kg-dry	1	10/17/2018
Bis(2-chloroethoxy)methane	ND	0.23		mg/Kg-dry	1	10/17/2018
Bis(2-chloroethyl)ether	ND	0.23		mg/Kg-dry	1	10/17/2018
Bis(2-ethylhexyl)phthalate	ND	1.1		mg/Kg-dry	1	10/17/2018
4-Bromophenyl phenyl ether	ND	0.23		mg/Kg-dry	1	10/17/2018
Butyl benzyl phthalate	ND	0.23		mg/Kg-dry	1	10/17/2018
Carbazole	ND	0.23		mg/Kg-dry	1	10/17/2018
4-Chloroaniline	ND	0.23		mg/Kg-dry	1	10/17/2018
4-Chloro-3-methylphenol	ND	0.44		mg/Kg-dry	1	10/17/2018
2-Chloronaphthalene	ND	0.23		mg/Kg-dry	1	10/17/2018
2-Chlorophenol	ND	0.23		mg/Kg-dry	1	10/17/2018
4-Chlorophenyl phenyl ether	ND	0.23		mg/Kg-dry	1	10/17/2018
Chrysene	ND	0.044		mg/Kg-dry	1	10/17/2018
Dibenz(a,h)anthracene	ND	0.044		mg/Kg-dry	1	10/17/2018
Dibenzofuran	ND	0.23		mg/Kg-dry	1	10/17/2018
1,2-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	10/17/2018
1,3-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	10/17/2018
1,4-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	10/17/2018
3,3'-Dichlorobenzidine	ND	0.23		mg/Kg-dry	1	10/17/2018
2,4-Dichlorophenol	ND	0.23		mg/Kg-dry	1	10/17/2018
Diethyl phthalate	ND	0.23		mg/Kg-dry	1	10/17/2018
2,4-Dimethylphenol	ND	0.23		mg/Kg-dry	1	10/17/2018
Dimethyl phthalate	ND	0.23		mg/Kg-dry	1	10/17/2018
4,6-Dinitro-2-methylphenol	ND	0.44		mg/Kg-dry	1	10/17/2018
2,4-Dinitrophenol	ND	1.1		mg/Kg-dry	1	10/17/2018
2,4-Dinitrotoluene	ND	0.044		mg/Kg-dry	1	10/17/2018
2,6-Dinitrotoluene	ND	0.044		mg/Kg-dry	1	10/17/2018
Di-n-butyl phthalate	ND	0.23		mg/Kg-dry	1	10/17/2018
Di-n-octyl phthalate	ND	0.23		mg/Kg-dry	1	10/17/2018

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

**Qualifiers:**

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 07, 2018

**ANALYTICAL RESULTS**

Date Printed: December 07, 2018

Client: Carnow, Conibear, &amp; Associates

Client Sample ID: B-107 B (1-3)

Work Order: 18100532 Revision 1

Collection Date: 10/16/2018 12:28:00 PM

Project: 115 Fire Station Site B, S. Morgan St. &amp; 119th St.,

Matrix: Soil

Lab ID: 18100532-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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**Semivolatile Organic Compounds by GC/MS SW8270C (SW3550B) Prep Date: 10/17/2018 Analyst: DM**

Fluoranthene	ND	0.044		mg/Kg-dry	1	10/17/2018
Fluorene	ND	0.044		mg/Kg-dry	1	10/17/2018
Hexachlorobenzene	ND	0.23		mg/Kg-dry	1	10/17/2018
Hexachlorobutadiene	ND	0.23		mg/Kg-dry	1	10/17/2018
Hexachlorocyclopentadiene	ND	0.23		mg/Kg-dry	1	10/17/2018
Hexachloroethane	ND	0.23		mg/Kg-dry	1	10/17/2018
Indeno(1,2,3-cd)pyrene	ND	0.044		mg/Kg-dry	1	10/17/2018
Isophorone	ND	0.23		mg/Kg-dry	1	10/17/2018
2-Methylnaphthalene	ND	0.23		mg/Kg-dry	1	10/17/2018
2-Methylphenol	ND	0.23		mg/Kg-dry	1	10/17/2018
4-Methylphenol	ND	0.23		mg/Kg-dry	1	10/17/2018
Naphthalene	ND	0.044		mg/Kg-dry	1	10/17/2018
2-Nitroaniline	ND	0.23		mg/Kg-dry	1	10/17/2018
3-Nitroaniline	ND	0.23		mg/Kg-dry	1	10/17/2018
4-Nitroaniline	ND	0.23		mg/Kg-dry	1	10/17/2018
2-Nitrophenol	ND	0.23		mg/Kg-dry	1	10/17/2018
4-Nitrophenol	ND	0.44		mg/Kg-dry	1	10/17/2018
Nitrobenzene	ND	0.044		mg/Kg-dry	1	10/17/2018
N-Nitrosodi-n-propylamine	ND	0.044		mg/Kg-dry	1	10/17/2018
N-Nitrosodimethylamine	ND	0.23		mg/Kg-dry	1	10/17/2018
N-Nitrosodiphenylamine	ND	0.044		mg/Kg-dry	1	10/17/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.23		mg/Kg-dry	1	10/17/2018
Pentachlorophenol	ND	0.044		mg/Kg-dry	1	10/17/2018
Phenanthrene	ND	0.044		mg/Kg-dry	1	10/17/2018
Phenol	ND	0.23		mg/Kg-dry	1	10/17/2018
Pyrene	ND	0.044		mg/Kg-dry	1	10/17/2018
Pyridine	ND	0.90		mg/Kg-dry	1	10/17/2018
1,2,4-Trichlorobenzene	ND	0.23		mg/Kg-dry	1	10/17/2018
2,4,5-Trichlorophenol	ND	0.23		mg/Kg-dry	1	10/17/2018
2,4,6-Trichlorophenol	ND	0.23		mg/Kg-dry	1	10/17/2018

**PCBs SW8082A (SW3550B) Prep Date: 10/17/2018 Analyst: GVC**

Aroclor 1016	ND	0.11		mg/Kg-dry	1	10/17/2018
Aroclor 1221	ND	0.11		mg/Kg-dry	1	10/17/2018
Aroclor 1232	ND	0.11		mg/Kg-dry	1	10/17/2018
Aroclor 1242	ND	0.11		mg/Kg-dry	1	10/17/2018
Aroclor 1248	ND	0.11		mg/Kg-dry	1	10/17/2018
Aroclor 1254	ND	0.11		mg/Kg-dry	1	10/17/2018
Aroclor 1260	ND	0.11		mg/Kg-dry	1	10/17/2018

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
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Date Reported: December 07, 2018

**ANALYTICAL RESULTS**

Date Printed: December 07, 2018

Client: Carnow, Conibear, &amp; Associates

Client Sample ID: B-107 B (1-3)

Work Order: 18100532 Revision 1

Collection Date: 10/16/2018 12:28:00 PM

Project: 115 Fire Station Site B, S. Morgan St. &amp; 119th St.,

Matrix: Soil

Lab ID: 18100532-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Pesticides</b>		<b>SW8081B (SW3550B)</b>		Prep Date: 10/17/2018		Analyst: GVC
4,4'-DDD	ND	0.0022		mg/Kg-dry	1	10/17/2018
4,4'-DDE	ND	0.0022		mg/Kg-dry	1	10/17/2018
4,4'-DDT	ND	0.0022		mg/Kg-dry	1	10/17/2018
Aldrin	ND	0.0022		mg/Kg-dry	1	10/17/2018
alpha-BHC	ND	0.0022		mg/Kg-dry	1	10/17/2018
alpha-Chlordane	ND	0.0022		mg/Kg-dry	1	10/17/2018
beta-BHC	ND	0.0022		mg/Kg-dry	1	10/17/2018
Chlordane	ND	0.022		mg/Kg-dry	1	10/17/2018
delta-BHC	ND	0.0022		mg/Kg-dry	1	10/17/2018
Dieldrin	ND	0.0022		mg/Kg-dry	1	10/17/2018
Endosulfan I	ND	0.0022		mg/Kg-dry	1	10/17/2018
Endosulfan II	ND	0.0022		mg/Kg-dry	1	10/17/2018
Endosulfan sulfate	ND	0.0022		mg/Kg-dry	1	10/17/2018
Endrin	ND	0.0022		mg/Kg-dry	1	10/17/2018
Endrin aldehyde	ND	0.0022		mg/Kg-dry	1	10/17/2018
Endrin ketone	ND	0.0022		mg/Kg-dry	1	10/17/2018
gamma-BHC	ND	0.0022		mg/Kg-dry	1	10/17/2018
gamma-Chlordane	ND	0.0022		mg/Kg-dry	1	10/17/2018
Heptachlor	ND	0.0022		mg/Kg-dry	1	10/17/2018
Heptachlor epoxide	ND	0.0022		mg/Kg-dry	1	10/17/2018
Methoxychlor	ND	0.0022		mg/Kg-dry	1	10/17/2018
Toxaphene	ND	0.045		mg/Kg-dry	1	10/17/2018
<b>Metals by ICP/MS</b>		<b>SW6020A (SW3050B)</b>		Prep Date: 10/16/2018		Analyst: JG
Aluminum	8300	24		mg/Kg-dry	10	10/16/2018
Antimony	ND	2.4		mg/Kg-dry	10	10/16/2018
Arsenic	6.5	1.2		mg/Kg-dry	10	10/16/2018
Barium	90	1.2		mg/Kg-dry	10	10/16/2018
Beryllium	0.65	0.60		mg/Kg-dry	10	10/16/2018
Cadmium	ND	0.60		mg/Kg-dry	10	10/16/2018
Calcium	6400	72		mg/Kg-dry	10	10/16/2018
Chromium	13	1.2		mg/Kg-dry	10	10/16/2018
Cobalt	4.3	1.2		mg/Kg-dry	10	10/16/2018
Copper	27	3.0		mg/Kg-dry	10	10/16/2018
Iron	15000	36		mg/Kg-dry	10	10/16/2018
Lead	390	0.60		mg/Kg-dry	10	10/16/2018
Magnesium	1400	36		mg/Kg-dry	10	10/16/2018
Manganese	150	1.2		mg/Kg-dry	10	10/16/2018
Nickel	8.9	1.2		mg/Kg-dry	10	10/16/2018

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

**Qualifiers:**

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 07, 2018

**ANALYTICAL RESULTS**

Date Printed: December 07, 2018

Client: Carnow, Conibear, &amp; Associates

Client Sample ID: B-107 B (1-3)

Work Order: 18100532 Revision 1

Collection Date: 10/16/2018 12:28:00 PM

Project: 115 Fire Station Site B, S. Morgan St. &amp; 119th St.,

Matrix: Soil

Lab ID: 18100532-001

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020A (SW3050B)</b>				Prep Date: 10/16/2018	Analyst: JG
Potassium	470	36		mg/Kg-dry	10	10/16/2018
Selenium	1.5	1.2		mg/Kg-dry	10	10/16/2018
Silver	ND	1.2		mg/Kg-dry	10	10/16/2018
Sodium	ND	72		mg/Kg-dry	10	10/16/2018
Thallium	ND	1.2		mg/Kg-dry	10	10/16/2018
Vanadium	33	1.2		mg/Kg-dry	10	10/16/2018
Zinc	48	6.0		mg/Kg-dry	10	10/16/2018
<b>Mercury</b>	<b>SW7471B</b>				Prep Date: 10/16/2018	Analyst: LB
Mercury	0.071	0.022		mg/Kg-dry	1	10/16/2018
<b>Cyanide, Total</b>	<b>SW9012A</b>				Prep Date: 10/17/2018	Analyst: JTB
Cyanide	ND	0.34		mg/Kg-dry	1	10/17/2018
<b>pH (25 °C)</b>	<b>SW9045C</b>				Prep Date: 10/16/2018	Analyst: RW
pH	7.12			pH Units	1	10/16/2018
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 10/16/2018	Analyst: VA
Percent Moisture	26.8	0.2	*	wt%	1	10/16/2018

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Date Reported: December 07, 2018

**ANALYTICAL RESULTS**

Date Printed: December 07, 2018

Client: Carnow, Conibear, &amp; Associates

Client Sample ID: B-111 B (1-3)

Work Order: 18100532 Revision 1

Collection Date: 10/16/2018 12:11:00 PM

Project: 115 Fire Station Site B, S. Morgan St. &amp; 119th St.,

Matrix: Soil

Lab ID: 18100532-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: 10/16/2018		Analyst: MJK
Acetone	ND	0.17		mg/Kg-dry	1	10/17/2018
Benzene	ND	0.011		mg/Kg-dry	1	10/17/2018
Bromodichloromethane	ND	0.011		mg/Kg-dry	1	10/17/2018
Bromoform	ND	0.011		mg/Kg-dry	1	10/17/2018
Bromomethane	ND	0.023		mg/Kg-dry	1	10/17/2018
2-Butanone	ND	0.17		mg/Kg-dry	1	10/17/2018
Carbon disulfide	ND	0.11		mg/Kg-dry	1	10/17/2018
Carbon tetrachloride	ND	0.011		mg/Kg-dry	1	10/17/2018
Chlorobenzene	ND	0.011		mg/Kg-dry	1	10/17/2018
Chloroethane	ND	0.023		mg/Kg-dry	1	10/17/2018
Chloroform	ND	0.011		mg/Kg-dry	1	10/17/2018
Chloromethane	ND	0.023		mg/Kg-dry	1	10/17/2018
Dibromochloromethane	ND	0.011		mg/Kg-dry	1	10/17/2018
1,1-Dichloroethane	ND	0.011		mg/Kg-dry	1	10/17/2018
1,2-Dichloroethane	ND	0.011		mg/Kg-dry	1	10/17/2018
1,1-Dichloroethene	ND	0.011		mg/Kg-dry	1	10/17/2018
cis-1,2-Dichloroethene	ND	0.011		mg/Kg-dry	1	10/17/2018
trans-1,2-Dichloroethene	ND	0.011		mg/Kg-dry	1	10/17/2018
1,2-Dichloropropane	ND	0.011		mg/Kg-dry	1	10/17/2018
cis-1,3-Dichloropropene	ND	0.0044		mg/Kg-dry	1	10/17/2018
trans-1,3-Dichloropropene	ND	0.0044		mg/Kg-dry	1	10/17/2018
Ethylbenzene	ND	0.011		mg/Kg-dry	1	10/17/2018
2-Hexanone	ND	0.044		mg/Kg-dry	1	10/17/2018
4-Methyl-2-pentanone	ND	0.044		mg/Kg-dry	1	10/17/2018
Methylene chloride	ND	0.023		mg/Kg-dry	1	10/17/2018
Methyl tert-butyl ether	ND	0.011		mg/Kg-dry	1	10/17/2018
Styrene	ND	0.011		mg/Kg-dry	1	10/17/2018
1,1,2,2-Tetrachloroethane	ND	0.011		mg/Kg-dry	1	10/17/2018
Tetrachloroethene	ND	0.011		mg/Kg-dry	1	10/17/2018
Toluene	ND	0.011		mg/Kg-dry	1	10/17/2018
1,1,1-Trichloroethane	ND	0.011		mg/Kg-dry	1	10/17/2018
1,1,2-Trichloroethane	ND	0.011		mg/Kg-dry	1	10/17/2018
Trichloroethene	ND	0.011		mg/Kg-dry	1	10/17/2018
Vinyl chloride	ND	0.011		mg/Kg-dry	1	10/17/2018
Xylenes, Total	ND	0.034		mg/Kg-dry	1	10/17/2018
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 10/17/2018		Analyst: DM
Acenaphthene	ND	0.039		mg/Kg-dry	1	10/17/2018
Acenaphthylene	ND	0.039		mg/Kg-dry	1	10/17/2018

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

**Qualifiers:**

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S - Spike Recovery outside accepted recovery limits

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R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

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Date Reported: December 07, 2018

**ANALYTICAL RESULTS**

Date Printed: December 07, 2018

Client: Carnow, Conibear, &amp; Associates

Client Sample ID: B-111 B (1-3)

Work Order: 18100532 Revision 1

Collection Date: 10/16/2018 12:11:00 PM

Project: 115 Fire Station Site B, S. Morgan St. &amp; 119th St.,

Matrix: Soil

Lab ID: 18100532-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C (SW3550B)</b>				Prep Date: 10/17/2018	Analyst: DM
Aniline	ND	0.39		mg/Kg-dry	1	10/17/2018
Anthracene	ND	0.039		mg/Kg-dry	1	10/17/2018
Benz(a)anthracene	ND	0.039		mg/Kg-dry	1	10/17/2018
Benzidine	ND	0.39		mg/Kg-dry	1	10/17/2018
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	10/17/2018
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	10/17/2018
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	10/17/2018
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	10/17/2018
Benzoic acid	ND	0.98		mg/Kg-dry	1	10/17/2018
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	10/17/2018
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	10/17/2018
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	10/17/2018
Bis(2-ethylhexyl)phthalate	ND	0.98		mg/Kg-dry	1	10/17/2018
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	10/17/2018
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	10/17/2018
Carbazole	ND	0.20		mg/Kg-dry	1	10/17/2018
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	10/17/2018
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	10/17/2018
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	10/17/2018
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	10/17/2018
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	10/17/2018
Chrysene	ND	0.039		mg/Kg-dry	1	10/17/2018
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	10/17/2018
Dibenzofuran	ND	0.20		mg/Kg-dry	1	10/17/2018
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	10/17/2018
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	10/17/2018
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	10/17/2018
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	10/17/2018
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	10/17/2018
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	10/17/2018
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	10/17/2018
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	10/17/2018
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	10/17/2018
2,4-Dinitrophenol	ND	0.98		mg/Kg-dry	1	10/17/2018
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	10/17/2018
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	10/17/2018
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	10/17/2018
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	10/17/2018

ND - Not Detected at the Reporting Limit

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 07, 2018

**ANALYTICAL RESULTS**

Date Printed: December 07, 2018

Client: Carnow, Conibear, &amp; Associates

Client Sample ID: B-111 B (1-3)

Work Order: 18100532 Revision 1

Collection Date: 10/16/2018 12:11:00 PM

Project: 115 Fire Station Site B, S. Morgan St. &amp; 119th St.,

Matrix: Soil

Lab ID: 18100532-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C (SW3550B)</b>				Prep Date: 10/17/2018	Analyst: DM
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Fluoranthene	0.054	0.039		mg/Kg-dry	1	10/17/2018
Fluorene	ND	0.039		mg/Kg-dry	1	10/17/2018
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	10/17/2018
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	10/17/2018
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	10/17/2018
Hexachloroethane	ND	0.20		mg/Kg-dry	1	10/17/2018
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	10/17/2018
Isophorone	ND	0.20		mg/Kg-dry	1	10/17/2018
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	10/17/2018
2-Methylphenol	ND	0.20		mg/Kg-dry	1	10/17/2018
4-Methylphenol	ND	0.20		mg/Kg-dry	1	10/17/2018
Naphthalene	ND	0.039		mg/Kg-dry	1	10/17/2018
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	10/17/2018
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	10/17/2018
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	10/17/2018
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	10/17/2018
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	10/17/2018
Nitrobenzene	ND	0.039		mg/Kg-dry	1	10/17/2018
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	10/17/2018
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	10/17/2018
N-Nitrosodiphenylamine	ND	0.039		mg/Kg-dry	1	10/17/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	10/17/2018
Pentachlorophenol	ND	0.039		mg/Kg-dry	1	10/17/2018
Phenanthrene	ND	0.039		mg/Kg-dry	1	10/17/2018
Phenol	ND	0.20		mg/Kg-dry	1	10/17/2018
Pyrene	0.050	0.039		mg/Kg-dry	1	10/17/2018
Pyridine	ND	0.79		mg/Kg-dry	1	10/17/2018
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	10/17/2018
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	10/17/2018
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	10/17/2018

<b>PCBs</b>	<b>SW8082A (SW3550B)</b>				Prep Date: 10/17/2018	Analyst: GVC
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Aroclor 1016	ND	0.095		mg/Kg-dry	1	10/17/2018
Aroclor 1221	ND	0.095		mg/Kg-dry	1	10/17/2018
Aroclor 1232	ND	0.095		mg/Kg-dry	1	10/17/2018
Aroclor 1242	ND	0.095		mg/Kg-dry	1	10/17/2018
Aroclor 1248	ND	0.095		mg/Kg-dry	1	10/17/2018
Aroclor 1254	ND	0.095		mg/Kg-dry	1	10/17/2018
Aroclor 1260	ND	0.095		mg/Kg-dry	1	10/17/2018

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
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 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
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Date Reported: December 07, 2018

**ANALYTICAL RESULTS**

Date Printed: December 07, 2018

Client: Carnow, Conibear, &amp; Associates

Client Sample ID: B-111 B (1-3)

Work Order: 18100532 Revision 1

Collection Date: 10/16/2018 12:11:00 PM

Project: 115 Fire Station Site B, S. Morgan St. &amp; 119th St.,

Matrix: Soil

Lab ID: 18100532-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Pesticides</b>		<b>SW8081B (SW3550B)</b>		Prep Date: 10/17/2018		Analyst: GVC
4,4'-DDD	ND	0.0019		mg/Kg-dry	1	10/17/2018
4,4'-DDE	ND	0.0019		mg/Kg-dry	1	10/17/2018
4,4'-DDT	ND	0.0019		mg/Kg-dry	1	10/17/2018
Aldrin	ND	0.0019		mg/Kg-dry	1	10/17/2018
alpha-BHC	ND	0.0019		mg/Kg-dry	1	10/17/2018
alpha-Chlordane	ND	0.0019		mg/Kg-dry	1	10/17/2018
beta-BHC	ND	0.0019		mg/Kg-dry	1	10/17/2018
Chlordane	ND	0.019		mg/Kg-dry	1	10/17/2018
delta-BHC	ND	0.0019		mg/Kg-dry	1	10/17/2018
Dieldrin	ND	0.0019		mg/Kg-dry	1	10/17/2018
Endosulfan I	ND	0.0019		mg/Kg-dry	1	10/17/2018
Endosulfan II	ND	0.0019		mg/Kg-dry	1	10/17/2018
Endosulfan sulfate	ND	0.0019		mg/Kg-dry	1	10/17/2018
Endrin	ND	0.0019		mg/Kg-dry	1	10/17/2018
Endrin aldehyde	ND	0.0019		mg/Kg-dry	1	10/17/2018
Endrin ketone	ND	0.0019		mg/Kg-dry	1	10/17/2018
gamma-BHC	ND	0.0019		mg/Kg-dry	1	10/17/2018
gamma-Chlordane	ND	0.0019		mg/Kg-dry	1	10/17/2018
Heptachlor	ND	0.0019		mg/Kg-dry	1	10/17/2018
Heptachlor epoxide	ND	0.0019		mg/Kg-dry	1	10/17/2018
Methoxychlor	ND	0.0019		mg/Kg-dry	1	10/17/2018
Toxaphene	ND	0.039		mg/Kg-dry	1	10/17/2018
<b>Metals by ICP/MS</b>		<b>SW6020A (SW3050B)</b>		Prep Date: 10/16/2018		Analyst: JG
Aluminum	6400	20		mg/Kg-dry	10	10/16/2018
Antimony	ND	2.0		mg/Kg-dry	10	10/16/2018
Arsenic	10	1.0		mg/Kg-dry	10	10/16/2018
Barium	90	1.0		mg/Kg-dry	10	10/16/2018
Beryllium	0.77	0.51		mg/Kg-dry	10	10/16/2018
Cadmium	ND	0.51		mg/Kg-dry	10	10/16/2018
Calcium	21000	61		mg/Kg-dry	10	10/16/2018
Chromium	16	1.0		mg/Kg-dry	10	10/16/2018
Cobalt	9.4	1.0		mg/Kg-dry	10	10/16/2018
Copper	29	2.6		mg/Kg-dry	10	10/16/2018
Iron	25000	31		mg/Kg-dry	10	10/16/2018
Lead	170	0.51		mg/Kg-dry	10	10/16/2018
Magnesium	11000	31		mg/Kg-dry	10	10/16/2018
Manganese	280	1.0		mg/Kg-dry	10	10/16/2018
Nickel	25	1.0		mg/Kg-dry	10	10/16/2018

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

**Qualifiers:**

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded



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Date Reported: December 07, 2018

**ANALYTICAL RESULTS**

Date Printed: December 07, 2018

Client: Carnow, Conibear, &amp; Associates

Client Sample ID: B-111 B (1-3)

Work Order: 18100532 Revision 1

Collection Date: 10/16/2018 12:11:00 PM

Project: 115 Fire Station Site B, S. Morgan St. &amp; 119th St.,

Matrix: Soil

Lab ID: 18100532-002

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020A (SW3050B)</b>		Prep Date: 10/16/2018		Analyst: JG	
Potassium	1000	31		mg/Kg-dry	10	10/16/2018
Selenium	1.8	1.0		mg/Kg-dry	10	10/16/2018
Silver	ND	1.0		mg/Kg-dry	10	10/16/2018
Sodium	180	61		mg/Kg-dry	10	10/16/2018
Thallium	ND	1.0		mg/Kg-dry	10	10/16/2018
Vanadium	37	1.0		mg/Kg-dry	10	10/16/2018
Zinc	180	5.1		mg/Kg-dry	10	10/16/2018
<b>Mercury</b>	<b>SW7471B</b>		Prep Date: 10/16/2018		Analyst: LB	
Mercury	0.042	0.021		mg/Kg-dry	1	10/16/2018
<b>Cyanide, Total</b>	<b>SW9012A</b>		Prep Date: 10/17/2018		Analyst: JTB	
Cyanide	ND	0.30		mg/Kg-dry	1	10/17/2018
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: 10/16/2018		Analyst: RW	
pH	7.11			pH Units	1	10/16/2018
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: 10/16/2018		Analyst: VA	
Percent Moisture	16.5	0.2	*	wt%	1	10/16/2018

**Qualifiers:**

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 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 07, 2018

**ANALYTICAL RESULTS**

Date Printed: December 07, 2018

Client: Carnow, Conibear, &amp; Associates

Client Sample ID: B-106 B (1-3)

Work Order: 18100532 Revision 1

Collection Date: 10/16/2018 12:47:00 PM

Project: 115 Fire Station Site B, S. Morgan St. &amp; 119th St.,

Matrix: Soil

Lab ID: 18100532-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: 10/16/2018		Analyst: MJK
Acetone	ND	0.075		mg/Kg-dry	1	10/17/2018
Benzene	ND	0.0050		mg/Kg-dry	1	10/17/2018
Bromodichloromethane	ND	0.0050		mg/Kg-dry	1	10/17/2018
Bromoform	ND	0.0050		mg/Kg-dry	1	10/17/2018
Bromomethane	ND	0.010		mg/Kg-dry	1	10/17/2018
2-Butanone	ND	0.075		mg/Kg-dry	1	10/17/2018
Carbon disulfide	ND	0.050		mg/Kg-dry	1	10/17/2018
Carbon tetrachloride	ND	0.0050		mg/Kg-dry	1	10/17/2018
Chlorobenzene	ND	0.0050		mg/Kg-dry	1	10/17/2018
Chloroethane	ND	0.010		mg/Kg-dry	1	10/17/2018
Chloroform	ND	0.0050		mg/Kg-dry	1	10/17/2018
Chloromethane	ND	0.010		mg/Kg-dry	1	10/17/2018
Dibromochloromethane	ND	0.0050		mg/Kg-dry	1	10/17/2018
1,1-Dichloroethane	ND	0.0050		mg/Kg-dry	1	10/17/2018
1,2-Dichloroethane	ND	0.0050		mg/Kg-dry	1	10/17/2018
1,1-Dichloroethene	ND	0.0050		mg/Kg-dry	1	10/17/2018
cis-1,2-Dichloroethene	ND	0.0050		mg/Kg-dry	1	10/17/2018
trans-1,2-Dichloroethene	ND	0.0050		mg/Kg-dry	1	10/17/2018
1,2-Dichloropropane	ND	0.0050		mg/Kg-dry	1	10/17/2018
cis-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	10/17/2018
trans-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	10/17/2018
Ethylbenzene	ND	0.0050		mg/Kg-dry	1	10/17/2018
2-Hexanone	ND	0.020		mg/Kg-dry	1	10/17/2018
4-Methyl-2-pentanone	ND	0.020		mg/Kg-dry	1	10/17/2018
Methylene chloride	ND	0.010		mg/Kg-dry	1	10/17/2018
Methyl tert-butyl ether	ND	0.0050		mg/Kg-dry	1	10/17/2018
Styrene	ND	0.0050		mg/Kg-dry	1	10/17/2018
1,1,2,2-Tetrachloroethane	ND	0.0050		mg/Kg-dry	1	10/17/2018
Tetrachloroethene	ND	0.0050		mg/Kg-dry	1	10/17/2018
Toluene	ND	0.0050		mg/Kg-dry	1	10/17/2018
1,1,1-Trichloroethane	ND	0.0050		mg/Kg-dry	1	10/17/2018
1,1,2-Trichloroethane	ND	0.0050		mg/Kg-dry	1	10/17/2018
Trichloroethene	ND	0.0050		mg/Kg-dry	1	10/17/2018
Vinyl chloride	ND	0.0050		mg/Kg-dry	1	10/17/2018
Xylenes, Total	ND	0.015		mg/Kg-dry	1	10/17/2018
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 10/17/2018		Analyst: DM
Acenaphthene	0.52	0.040		mg/Kg-dry	1	10/17/2018
Acenaphthylene	2.7	0.040		mg/Kg-dry	1	10/17/2018

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Date Reported: December 07, 2018

**ANALYTICAL RESULTS**

Date Printed: December 07, 2018

Client: Carnow, Conibear, &amp; Associates

Client Sample ID: B-106 B (1-3)

Work Order: 18100532 Revision 1

Collection Date: 10/16/2018 12:47:00 PM

Project: 115 Fire Station Site B, S. Morgan St. &amp; 119th St.,

Matrix: Soil

Lab ID: 18100532-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C (SW3550B)</b>				Prep Date: 10/17/2018	Analyst: DM
Aniline	ND	0.41		mg/Kg-dry	1	10/17/2018
Anthracene	6.6	0.40		mg/Kg-dry	10	10/17/2018
Benz(a)anthracene	19	0.40		mg/Kg-dry	10	10/17/2018
Benzidine	ND	0.40		mg/Kg-dry	1	10/17/2018
Benzo(a)pyrene	14	0.40		mg/Kg-dry	10	10/17/2018
Benzo(b)fluoranthene	14	0.40		mg/Kg-dry	10	10/17/2018
Benzo(g,h,i)perylene	8.3	0.40		mg/Kg-dry	10	10/17/2018
Benzo(k)fluoranthene	13	0.40		mg/Kg-dry	10	10/17/2018
Benzoic acid	ND	1.0		mg/Kg-dry	1	10/17/2018
Benzyl alcohol	ND	0.21		mg/Kg-dry	1	10/17/2018
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	10/17/2018
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	10/17/2018
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg-dry	1	10/17/2018
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	10/17/2018
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	10/17/2018
Carbazole	1.6	0.21		mg/Kg-dry	1	10/17/2018
4-Chloroaniline	ND	0.21		mg/Kg-dry	1	10/17/2018
4-Chloro-3-methylphenol	ND	0.40		mg/Kg-dry	1	10/17/2018
2-Chloronaphthalene	ND	0.21		mg/Kg-dry	1	10/17/2018
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	10/17/2018
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	10/17/2018
Chrysene	18	0.40		mg/Kg-dry	10	10/17/2018
Dibenz(a,h)anthracene	4.3	0.040		mg/Kg-dry	1	10/17/2018
Dibenzofuran	0.29	0.21		mg/Kg-dry	1	10/17/2018
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	10/17/2018
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	10/17/2018
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	10/17/2018
3,3'-Dichlorobenzidine	ND	0.21		mg/Kg-dry	1	10/17/2018
2,4-Dichlorophenol	ND	0.21		mg/Kg-dry	1	10/17/2018
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	10/17/2018
2,4-Dimethylphenol	ND	0.21		mg/Kg-dry	1	10/17/2018
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	10/17/2018
4,6-Dinitro-2-methylphenol	ND	0.40		mg/Kg-dry	1	10/17/2018
2,4-Dinitrophenol	ND	1.0		mg/Kg-dry	1	10/17/2018
2,4-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	10/17/2018
2,6-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	10/17/2018
Di-n-butyl phthalate	ND	0.21		mg/Kg-dry	1	10/17/2018
Di-n-octyl phthalate	ND	0.21		mg/Kg-dry	1	10/17/2018

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Date Reported: December 07, 2018

**ANALYTICAL RESULTS**

Date Printed: December 07, 2018

Client: Carnow, Conibear, &amp; Associates

Client Sample ID: B-106 B (1-3)

Work Order: 18100532 Revision 1

Collection Date: 10/16/2018 12:47:00 PM

Project: 115 Fire Station Site B, S. Morgan St. &amp; 119th St.,

Matrix: Soil

Lab ID: 18100532-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C (SW3550B)</b>				Prep Date: 10/17/2018	Analyst: DM
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Fluoranthene	47	0.40		mg/Kg-dry	10	10/17/2018
Fluorene	1.0	0.040		mg/Kg-dry	1	10/17/2018
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	10/17/2018
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	10/17/2018
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	10/17/2018
Hexachloroethane	ND	0.21		mg/Kg-dry	1	10/17/2018
Indeno(1,2,3-cd)pyrene	8.1	0.40		mg/Kg-dry	10	10/17/2018
Isophorone	ND	0.21		mg/Kg-dry	1	10/17/2018
2-Methylnaphthalene	ND	0.21		mg/Kg-dry	1	10/17/2018
2-Methylphenol	ND	0.21		mg/Kg-dry	1	10/17/2018
4-Methylphenol	ND	0.21		mg/Kg-dry	1	10/17/2018
Naphthalene	0.10	0.040		mg/Kg-dry	1	10/17/2018
2-Nitroaniline	ND	0.21		mg/Kg-dry	1	10/17/2018
3-Nitroaniline	ND	0.21		mg/Kg-dry	1	10/17/2018
4-Nitroaniline	ND	0.21		mg/Kg-dry	1	10/17/2018
2-Nitrophenol	ND	0.21		mg/Kg-dry	1	10/17/2018
4-Nitrophenol	ND	0.40		mg/Kg-dry	1	10/17/2018
Nitrobenzene	ND	0.040		mg/Kg-dry	1	10/17/2018
N-Nitrosodi-n-propylamine	ND	0.040		mg/Kg-dry	1	10/17/2018
N-Nitrosodimethylamine	ND	0.21		mg/Kg-dry	1	10/17/2018
N-Nitrosodiphenylamine	ND	0.040		mg/Kg-dry	1	10/17/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.21		mg/Kg-dry	1	10/17/2018
Pentachlorophenol	ND	0.040		mg/Kg-dry	1	10/17/2018
Phenanthrene	14	0.40		mg/Kg-dry	10	10/17/2018
Phenol	ND	0.21		mg/Kg-dry	1	10/17/2018
Pyrene	36	0.40		mg/Kg-dry	10	10/17/2018
Pyridine	ND	0.82		mg/Kg-dry	1	10/17/2018
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	1	10/17/2018
2,4,5-Trichlorophenol	ND	0.21		mg/Kg-dry	1	10/17/2018
2,4,6-Trichlorophenol	ND	0.21		mg/Kg-dry	1	10/17/2018

<b>PCBs</b>	<b>SW8082A (SW3550B)</b>				Prep Date: 10/17/2018	Analyst: GVC
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Aroclor 1016	ND	0.097		mg/Kg-dry	1	10/17/2018
Aroclor 1221	ND	0.097		mg/Kg-dry	1	10/17/2018
Aroclor 1232	ND	0.097		mg/Kg-dry	1	10/17/2018
Aroclor 1242	ND	0.097		mg/Kg-dry	1	10/17/2018
Aroclor 1248	ND	0.097		mg/Kg-dry	1	10/17/2018
Aroclor 1254	ND	0.097		mg/Kg-dry	1	10/17/2018
Aroclor 1260	ND	0.097		mg/Kg-dry	1	10/17/2018

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Date Reported: December 07, 2018

**ANALYTICAL RESULTS**

Date Printed: December 07, 2018

Client: Carnow, Conibear, &amp; Associates

Client Sample ID: B-106 B (1-3)

Work Order: 18100532 Revision 1

Collection Date: 10/16/2018 12:47:00 PM

Project: 115 Fire Station Site B, S. Morgan St. &amp; 119th St.,

Matrix: Soil

Lab ID: 18100532-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Pesticides</b>		<b>SW8081B (SW3550B)</b>		Prep Date: 10/17/2018		Analyst: GVC
4,4'-DDD	ND	0.0019		mg/Kg-dry	1	10/17/2018
4,4'-DDE	ND	0.0019		mg/Kg-dry	1	10/17/2018
4,4'-DDT	ND	0.0019		mg/Kg-dry	1	10/17/2018
Aldrin	ND	0.0019		mg/Kg-dry	1	10/17/2018
alpha-BHC	ND	0.0019		mg/Kg-dry	1	10/17/2018
alpha-Chlordane	ND	0.0019		mg/Kg-dry	1	10/17/2018
beta-BHC	ND	0.0019		mg/Kg-dry	1	10/17/2018
Chlordane	ND	0.019		mg/Kg-dry	1	10/17/2018
delta-BHC	ND	0.0019		mg/Kg-dry	1	10/17/2018
Dieldrin	ND	0.0019		mg/Kg-dry	1	10/17/2018
Endosulfan I	ND	0.0019		mg/Kg-dry	1	10/17/2018
Endosulfan II	ND	0.0019		mg/Kg-dry	1	10/17/2018
Endosulfan sulfate	ND	0.0019		mg/Kg-dry	1	10/17/2018
Endrin	ND	0.0019		mg/Kg-dry	1	10/17/2018
Endrin aldehyde	ND	0.0019		mg/Kg-dry	1	10/17/2018
Endrin ketone	ND	0.0019		mg/Kg-dry	1	10/17/2018
gamma-BHC	ND	0.0019		mg/Kg-dry	1	10/17/2018
gamma-Chlordane	ND	0.0019		mg/Kg-dry	1	10/17/2018
Heptachlor	ND	0.0019		mg/Kg-dry	1	10/17/2018
Heptachlor epoxide	ND	0.0019		mg/Kg-dry	1	10/17/2018
Methoxychlor	ND	0.0019		mg/Kg-dry	1	10/17/2018
Toxaphene	ND	0.040		mg/Kg-dry	1	10/17/2018
<b>Metals by ICP/MS</b>		<b>SW6020A (SW3050B)</b>		Prep Date: 10/16/2018		Analyst: JG
Aluminum	8100	22		mg/Kg-dry	10	10/16/2018
Antimony	ND	2.2		mg/Kg-dry	10	10/16/2018
Arsenic	15	1.1		mg/Kg-dry	10	10/16/2018
Barium	410	1.1		mg/Kg-dry	10	10/16/2018
Beryllium	1.4	0.56		mg/Kg-dry	10	10/16/2018
Cadmium	1.7	0.56		mg/Kg-dry	10	10/16/2018
Calcium	37000	67		mg/Kg-dry	10	10/16/2018
Chromium	24	1.1		mg/Kg-dry	10	10/16/2018
Cobalt	11	1.1		mg/Kg-dry	10	10/16/2018
Copper	110	2.8		mg/Kg-dry	10	10/16/2018
Iron	22000	33		mg/Kg-dry	10	10/16/2018
Lead	730	0.56		mg/Kg-dry	10	10/16/2018
Magnesium	12000	33		mg/Kg-dry	10	10/16/2018
Manganese	520	1.1		mg/Kg-dry	10	10/16/2018
Nickel	30	1.1		mg/Kg-dry	10	10/16/2018

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Date Reported: December 07, 2018

**ANALYTICAL RESULTS**

Date Printed: December 07, 2018

Client: Carnow, Conibear, &amp; Associates

Client Sample ID: B-106 B (1-3)

Work Order: 18100532 Revision 1

Collection Date: 10/16/2018 12:47:00 PM

Project: 115 Fire Station Site B, S. Morgan St. &amp; 119th St.,

Matrix: Soil

Lab ID: 18100532-003

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020A (SW3050B)</b>		Prep Date: 10/16/2018		Analyst: JG	
Potassium	990	33		mg/Kg-dry	10	10/16/2018
Selenium	1.8	1.1		mg/Kg-dry	10	10/16/2018
Silver	ND	1.1		mg/Kg-dry	10	10/16/2018
Sodium	350	67		mg/Kg-dry	10	10/16/2018
Thallium	ND	1.1		mg/Kg-dry	10	10/16/2018
Vanadium	31	1.1		mg/Kg-dry	10	10/16/2018
Zinc	520	5.6		mg/Kg-dry	10	10/16/2018
<b>SPLP Metals by ICP/MS</b>	<b>SW1312/6020A (SW3005A)</b>		Prep Date: 12/6/2018		Analyst: JG	
Cobalt	ND	0.0040		mg/L	2	12/6/2018
<b>Mercury</b>	<b>SW7471B</b>		Prep Date: 10/16/2018		Analyst: LB	
Mercury	0.24	0.020		mg/Kg-dry	1	10/16/2018
<b>Cyanide, Total</b>	<b>SW9012A</b>		Prep Date: 10/17/2018		Analyst: JTB	
Cyanide	0.91	0.31		mg/Kg-dry	1	10/17/2018
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: 10/16/2018		Analyst: RW	
pH	7.59			pH Units	1	10/16/2018
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: 10/16/2018		Analyst: VA	
Percent Moisture	18.8	0.2	*	wt%	1	10/16/2018

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### Sample Receipt Checklist

Client Name CCA

Date and Time Received: 10/16/2018 3:04:00 PM

Work Order Number 18100532

Received by: EAA

Checklist completed by:     *elm*         10/16/18      
Signature Date

Reviewed by:     *Bm*         10/16/18      
Initials Date

Matrix: Carrier name     Client Delivered    

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels/containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container or Temp Blank temperature in compliance? Yes  No  Temperature 3.9 °C
- Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No
- Water - Samples pH checked? Yes  No  Checked by: \_\_\_\_\_
- Water - Samples properly preserved? Yes  No  pH Adjusted? \_\_\_\_\_

Any No response must be detailed in the comments section below.

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Client / Person contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



## Craig Chawla

---

**From:** Karen Zelzer <kzelzer@caltld.com>  
**Sent:** Wednesday, December 05, 2018 3:21 PM  
**To:** Craig Chawla  
**Subject:** RE: Fire Station 115 Site B Additional Analysis

Hi Craig,  
Sorry, I forgot to add some analysis to my last email.

Could we also get:

SPLP – Cobalt for Sample B-106B (1-3)  
SPLP/TCPL – Iron for Sample B-116B (1-3)

We would need these RUSH TAT and by Friday if possible.  
Thank you,



**Karen L. Zelzer**  
Environmental Specialist I

600 West Van Buren Street, Suite 500  
Chicago, Illinois 60607  
**t:** 312.762.2909 **c:** 312.659.9989  
**e:** kzelzer@caltld.com **w:** caltld.com

---

**From:** Karen Zelzer  
**Sent:** Wednesday, December 05, 2018 2:51 PM  
**To:** 'Craig Chawla' <cchawla@statanalysis.com>  
**Subject:** RE: Fire Station 115 Site B Additional Analysis

Yes, Thank you.



**Karen L. Zelzer**  
Environmental Specialist I

600 West Van Buren Street, Suite 500  
Chicago, Illinois 60607  
**t:** 312.762.2909 **c:** 312.659.9989  
**e:** kzelzer@caltld.com **w:** caltld.com

---

**From:** Craig Chawla <cchawla@statanalysis.com>  
**Sent:** Wednesday, December 05, 2018 2:44 PM  
**To:** Karen Zelzer <kzelzer@caltld.com>  
**Subject:** RE: Fire Station 115 Site B Additional Analysis

**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

November 19, 2018

Carnow, Conibear, & Associates  
600 W. Van Buren Street  
Chicago, IL 60607

Telephone: (312) 782-4486  
Fax: (312) 782-5145

Analytical Report for STAT Work Order: 18110407 Revision 0

RE: Firestation 115 B, 119th & Morgan St.

Dear Karen Zelzer:

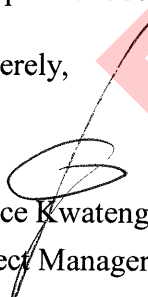
STAT Analysis received 3 samples for the referenced project on 11/12/2018 3:25:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAP standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Justice Kwateng  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Carnow, Conibear, & Associates  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Work Order:** 18110407 Revision 0

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**Work Order Sample Summary**

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
18110407-001A	MW-116B		11/12/2018 1:30:00 PM	11/12/2018
18110407-001B	MW-116B		11/12/2018 1:30:00 PM	11/12/2018
18110407-001C	MW-116B		11/12/2018 1:30:00 PM	11/12/2018
18110407-001D	MW-116B		11/12/2018 1:30:00 PM	11/12/2018
18110407-001E	MW-116B		11/12/2018 1:30:00 PM	11/12/2018
18110407-002A	MW-113B		11/12/2018 12:30:00 PM	11/12/2018
18110407-002B	MW-113B		11/12/2018 12:30:00 PM	11/12/2018
18110407-002C	MW-113B		11/12/2018 12:30:00 PM	11/12/2018
18110407-002D	MW-113B		11/12/2018 12:30:00 PM	11/12/2018
18110407-002E	MW-113B		11/12/2018 12:30:00 PM	11/12/2018
18110407-003A	MW-105B		11/12/2018 10:00:00 AM	11/12/2018
18110407-003B	MW-105B		11/12/2018 10:00:00 AM	11/12/2018
18110407-003C	MW-105B		11/12/2018 10:00:00 AM	11/12/2018
18110407-003D	MW-105B		11/12/2018 10:00:00 AM	11/12/2018
18110407-003E	MW-105B		11/12/2018 10:00:00 AM	11/12/2018

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Date Reported: November 19, 2018

**ANALYTICAL RESULTS**

Date Printed: November 19, 2018

Client: Carnow, Conibear, & Associates  
 Work Order: 18110407 Revision 0  
 Project: Firestation 115 B, 119th & Morgan St.  
 Lab ID: 18110407-001

Client Sample ID: MW-116B  
 Collection Date: 11/12/2018 1:30:00 PM  
 Matrix: Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260B (SW5030B)</b>		Prep Date:		Analyst: <b>MJK</b>	
Acetone	ND	0.020		mg/L	1	11/13/2018
Benzene	ND	0.0050		mg/L	1	11/13/2018
Bromodichloromethane	ND	0.0050		mg/L	1	11/13/2018
Bromoform	ND	0.0050		mg/L	1	11/13/2018
Bromomethane	ND	0.010		mg/L	1	11/13/2018
2-Butanone	ND	0.020		mg/L	1	11/13/2018
Carbon disulfide	ND	0.010		mg/L	1	11/13/2018
Carbon tetrachloride	ND	0.0050		mg/L	1	11/13/2018
Chlorobenzene	ND	0.0050		mg/L	1	11/13/2018
Chloroethane	ND	0.010		mg/L	1	11/13/2018
Chloroform	ND	0.0050		mg/L	1	11/13/2018
Chloromethane	ND	0.010		mg/L	1	11/13/2018
Dibromochloromethane	ND	0.0050		mg/L	1	11/13/2018
1,1-Dichloroethane	ND	0.0050		mg/L	1	11/13/2018
1,2-Dichloroethane	ND	0.0050		mg/L	1	11/13/2018
1,1-Dichloroethene	ND	0.0050		mg/L	1	11/13/2018
cis-1,2-Dichloroethene	ND	0.0050		mg/L	1	11/13/2018
trans-1,2-Dichloroethene	ND	0.0050		mg/L	1	11/13/2018
1,2-Dichloropropane	ND	0.0050		mg/L	1	11/13/2018
cis-1,3-Dichloropropene	ND	0.0010		mg/L	1	11/13/2018
trans-1,3-Dichloropropene	ND	0.0010		mg/L	1	11/13/2018
Ethylbenzene	ND	0.0050		mg/L	1	11/13/2018
2-Hexanone	ND	0.020		mg/L	1	11/13/2018
4-Methyl-2-pentanone	ND	0.020		mg/L	1	11/13/2018
Methylene chloride	ND	0.0050		mg/L	1	11/13/2018
Methyl tert-butyl ether	ND	0.0050		mg/L	1	11/13/2018
Styrene	ND	0.0050		mg/L	1	11/13/2018
1,1,2,2-Tetrachloroethane	ND	0.0050		mg/L	1	11/13/2018
Tetrachloroethene	ND	0.0050		mg/L	1	11/13/2018
Toluene	ND	0.0050		mg/L	1	11/13/2018
1,1,1-Trichloroethane	ND	0.0050		mg/L	1	11/13/2018
1,1,2-Trichloroethane	ND	0.0050		mg/L	1	11/13/2018
Trichloroethene	ND	0.0050		mg/L	1	11/13/2018
Vinyl chloride	ND	0.0020		mg/L	1	11/13/2018
Xylenes, Total	ND	0.015		mg/L	1	11/13/2018
<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C-SIM (SW3510C)</b>		Prep Date: 11/16/2018		Analyst: <b>DM</b>	
Acenaphthene	ND	0.0010		mg/L	1	11/19/2018
Acenaphthylene	ND	0.0010		mg/L	1	11/19/2018

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

**Qualifiers:**

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: November 19, 2018

**ANALYTICAL RESULTS**

Date Printed: November 19, 2018

Client: Carnow, Conibear, & Associates  
 Work Order: 18110407 Revision 0  
 Project: Firestation 115 B, 119th & Morgan St.  
 Lab ID: 18110407-001

Client Sample ID: MW-116B  
 Collection Date: 11/12/2018 1:30:00 PM  
 Matrix: Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS SW8270C-SIM (SW3510C) Prep Date: 11/16/2018 Analyst: DM</b>						
Anthracene	ND	0.0010		mg/L	1	11/19/2018
Benz(a)anthracene	ND	0.00010		mg/L	1	11/19/2018
Benzo(a)pyrene	ND	0.00010		mg/L	1	11/19/2018
Benzo(b)fluoranthene	ND	0.00010		mg/L	1	11/19/2018
Benzo(g,h,i)perylene	ND	0.0010		mg/L	1	11/19/2018
Benzo(k)fluoranthene	ND	0.00010		mg/L	1	11/19/2018
Carbazole	ND	0.00050		mg/L	1	11/19/2018
Chrysene	ND	0.00010		mg/L	1	11/19/2018
Dibenz(a,h)anthracene	ND	0.00010		mg/L	1	11/19/2018
2,4-Dinitrotoluene	ND	0.00010		mg/L	1	11/19/2018
2,6-Dinitrotoluene	ND	0.00010		mg/L	1	11/19/2018
Fluoranthene	ND	0.0010		mg/L	1	11/19/2018
Fluorene	ND	0.0010		mg/L	1	11/19/2018
Naphthalene	ND	0.0010		mg/L	1	11/19/2018
Indeno(1,2,3-cd)pyrene	ND	0.00010		mg/L	1	11/19/2018
Nitrobenzene	ND	0.0010		mg/L	1	11/19/2018
N-Nitrosodi-n-propylamine	ND	0.00010		mg/L	1	11/19/2018
Pentachlorophenol	ND	0.00050		mg/L	1	11/19/2018
Phenanthrene	ND	0.0010		mg/L	1	11/19/2018
Pyrene	ND	0.0010		mg/L	1	11/19/2018
<b>Semivolatile Organic Compounds by GC/MS SW8270C (SW3510C) Prep Date: 11/16/2018 Analyst: DM</b>						
Aniline	ND	0.0050		mg/L	1	11/19/2018
Benzidine	ND	0.0050		mg/L	1	11/19/2018
Benzoic acid	ND	0.025		mg/L	1	11/19/2018
Benzyl alcohol	ND	0.0050		mg/L	1	11/19/2018
Bis(2-chloroethoxy)methane	ND	0.0050		mg/L	1	11/19/2018
Bis(2-chloroethyl)ether	ND	0.0050		mg/L	1	11/19/2018
Bis(2-ethylhexyl)phthalate	ND	0.0050		mg/L	1	11/19/2018
4-Bromophenyl phenyl ether	ND	0.0050		mg/L	1	11/19/2018
Butyl benzyl phthalate	ND	0.0050		mg/L	1	11/19/2018
4-Chloroaniline	ND	0.0050		mg/L	1	11/19/2018
4-Chloro-3-methylphenol	ND	0.0050		mg/L	1	11/19/2018
2-Chloronaphthalene	ND	0.0050		mg/L	1	11/19/2018
2-Chlorophenol	ND	0.0050		mg/L	1	11/19/2018
4-Chlorophenyl phenyl ether	ND	0.0050		mg/L	1	11/19/2018
Dibenzofuran	ND	0.0050		mg/L	1	11/19/2018
1,2-Dichlorobenzene	ND	0.0050		mg/L	1	11/19/2018
1,3-Dichlorobenzene	ND	0.0050		mg/L	1	11/19/2018

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: November 19, 2018

**ANALYTICAL RESULTS**

Date Printed: November 19, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110407 Revision 0  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110407-001

**Client Sample ID:** MW-116B  
**Collection Date:** 11/12/2018 1:30:00 PM  
**Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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**Semivolatile Organic Compounds by GC/MS SW8270C (SW3510C) Prep Date: 11/16/2018 Analyst: DM**

1,4-Dichlorobenzene	ND	0.0050		mg/L	1	11/19/2018
3,3'-Dichlorobenzidine	ND	0.010		mg/L	1	11/19/2018
2,4-Dichlorophenol	ND	0.0050		mg/L	1	11/19/2018
Diethyl phthalate	ND	0.0050		mg/L	1	11/19/2018
2,4-Dimethylphenol	ND	0.0050		mg/L	1	11/19/2018
Dimethyl phthalate	ND	0.0050		mg/L	1	11/19/2018
4,6-Dinitro-2-methylphenol	ND	0.025		mg/L	1	11/19/2018
2,4-Dinitrophenol	ND	0.025		mg/L	1	11/19/2018
Di-n-butyl phthalate	ND	0.0050		mg/L	1	11/19/2018
Di-n-octyl phthalate	ND	0.0050		mg/L	1	11/19/2018
Hexachlorobenzene	ND	0.0050		mg/L	1	11/19/2018
Hexachlorobutadiene	ND	0.0050		mg/L	1	11/19/2018
Hexachlorocyclopentadiene	ND	0.0050		mg/L	1	11/19/2018
Hexachloroethane	ND	0.0050		mg/L	1	11/19/2018
Isophorone	ND	0.0050		mg/L	1	11/19/2018
2-Methylnaphthalene	ND	0.0050		mg/L	1	11/19/2018
2-Methylphenol	ND	0.0050		mg/L	1	11/19/2018
4-Methylphenol	ND	0.0050		mg/L	1	11/19/2018
2-Nitroaniline	ND	0.025		mg/L	1	11/19/2018
3-Nitroaniline	ND	0.025		mg/L	1	11/19/2018
4-Nitroaniline	ND	0.025		mg/L	1	11/19/2018
2-Nitrophenol	ND	0.0050		mg/L	1	11/19/2018
4-Nitrophenol	ND	0.025		mg/L	1	11/19/2018
N-Nitrosodimethylamine	ND	0.0050		mg/L	1	11/19/2018
N-Nitrosodiphenylamine	ND	0.0050		mg/L	1	11/19/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.0050		mg/L	1	11/19/2018
Phenol	ND	0.0050		mg/L	1	11/19/2018
Pyridine	ND	0.0050		mg/L	1	11/19/2018
1,2,4-Trichlorobenzene	ND	0.0050		mg/L	1	11/19/2018
2,4,5-Trichlorophenol	ND	0.010		mg/L	1	11/19/2018
2,4,6-Trichlorophenol	ND	0.0050		mg/L	1	11/19/2018

**PCBs in Water SW8082A (SW3510C) Prep Date: 11/15/2018 Analyst: GVC**

Aroclor 1016	ND	0.00050		mg/L	1	11/15/2018
Aroclor 1221	ND	0.00050		mg/L	1	11/15/2018
Aroclor 1232	ND	0.00050		mg/L	1	11/15/2018
Aroclor 1242	ND	0.00050		mg/L	1	11/15/2018
Aroclor 1248	ND	0.00050		mg/L	1	11/15/2018
Aroclor 1254	ND	0.00050		mg/L	1	11/15/2018

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
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 E - Value above quantitation range  
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Date Reported: November 19, 2018

**ANALYTICAL RESULTS**

Date Printed: November 19, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110407 Revision 0  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110407-001

**Client Sample ID:** MW-116B  
**Collection Date:** 11/12/2018 1:30:00 PM  
**Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>PCBs in Water</b>	<b>SW8082A (SW3510C)</b>		Prep Date: 11/15/2018		Analyst: GVC	
Aroclor 1260	ND	0.00050		mg/L	1	11/15/2018
<b>Pesticides</b>	<b>SW8081B (SW3510C)</b>		Prep Date: 11/15/2018		Analyst: GVC	
4,4'-DDD	ND	0.000050		mg/L	1	11/15/2018
4,4'-DDE	ND	0.000050		mg/L	1	11/15/2018
4,4'-DDT	ND	0.000050		mg/L	1	11/15/2018
Aldrin	ND	0.000050		mg/L	1	11/15/2018
alpha-BHC	ND	0.000050		mg/L	1	11/15/2018
alpha-Chlordane	ND	0.000050		mg/L	1	11/15/2018
beta-BHC	ND	0.000050		mg/L	1	11/15/2018
Chlordane	ND	0.0010		mg/L	1	11/15/2018
delta-BHC	ND	0.000050		mg/L	1	11/15/2018
Dieldrin	ND	0.000050		mg/L	1	11/15/2018
Endosulfan I	ND	0.000050		mg/L	1	11/15/2018
Endosulfan II	ND	0.000050		mg/L	1	11/15/2018
Endosulfan sulfate	ND	0.000050		mg/L	1	11/15/2018
Endrin	ND	0.000050		mg/L	1	11/15/2018
Endrin aldehyde	ND	0.000050		mg/L	1	11/15/2018
Endrin ketone	ND	0.000050		mg/L	1	11/15/2018
gamma-BHC	ND	0.000050		mg/L	1	11/15/2018
gamma-Chlordane	ND	0.000050		mg/L	1	11/15/2018
Heptachlor	ND	0.000050		mg/L	1	11/15/2018
Heptachlor epoxide	ND	0.000050		mg/L	1	11/15/2018
Methoxychlor	ND	0.000050		mg/L	1	11/15/2018
Toxaphene	ND	0.0010		mg/L	1	11/15/2018
<b>Dissolved Metals by ICP/MS</b>	<b>SW6020A (SW3005A)</b>		Prep Date: 11/14/2018		Analyst: JG	
Aluminum	ND	0.040		mg/L	2	11/14/2018
Antimony	ND	0.0060		mg/L	2	11/15/2018
Arsenic	0.012	0.0040		mg/L	2	11/14/2018
Barium	0.058	0.0040		mg/L	2	11/14/2018
Beryllium	ND	0.0020		mg/L	2	11/14/2018
Cadmium	ND	0.0020		mg/L	2	11/14/2018
Calcium	120	0.20		mg/L	2	11/14/2018
Chromium	ND	0.0040		mg/L	2	11/14/2018
Cobalt	ND	0.0040		mg/L	2	11/14/2018
Copper	ND	0.010		mg/L	2	11/14/2018
Iron	1.8	0.10		mg/L	2	11/14/2018
Lead	ND	0.0020		mg/L	2	11/14/2018

**Qualifiers:**

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 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
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 E - Value above quantitation range  
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Date Reported: November 19, 2018

**ANALYTICAL RESULTS**

Date Printed: November 19, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110407 Revision 0  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110407-001

**Client Sample ID:** MW-116B  
**Collection Date:** 11/12/2018 1:30:00 PM  
**Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Dissolved Metals by ICP/MS</b>						
	<b>SW6020A (SW3005A)</b>			Prep Date: 11/14/2018 Analyst: JG		
Magnesium	64	0.10		mg/L	2	11/14/2018
Manganese	0.39	0.0040		mg/L	2	11/14/2018
Nickel	ND	0.0080		mg/L	2	11/14/2018
Potassium	1.0	0.40		mg/L	2	11/14/2018
Selenium	ND	0.0040		mg/L	2	11/14/2018
Silver	ND	0.0040		mg/L	2	11/14/2018
Sodium	37	0.80		mg/L	2	11/14/2018
Thallium	ND	0.0020		mg/L	2	11/14/2018
Vanadium	0.020	0.0080		mg/L	2	11/14/2018
Zinc	ND	0.020		mg/L	2	11/14/2018
<b>Metals by ICP/MS</b>						
	<b>SW6020A (SW3005A)</b>			Prep Date: 11/14/2018 Analyst: JG		
Aluminum	49	0.040		mg/L	2	11/14/2018
Antimony	ND	0.0060		mg/L	2	11/14/2018
Arsenic	0.13	0.0040		mg/L	2	11/14/2018
Barium	0.41	0.0040		mg/L	2	11/14/2018
Beryllium	0.0039	0.0020		mg/L	2	11/14/2018
Cadmium	0.0042	0.0020		mg/L	2	11/14/2018
Calcium	1100	10		mg/L	100	11/15/2018
Chromium	0.14	0.0040		mg/L	2	11/14/2018
Cobalt	0.16	0.0040		mg/L	2	11/14/2018
Copper	0.34	0.010		mg/L	2	11/14/2018
Iron	190	0.10		mg/L	2	11/14/2018
Lead	0.31	0.0020		mg/L	2	11/14/2018
Magnesium	610	5.0		mg/L	100	11/15/2018
Manganese	6.8	0.0040		mg/L	2	11/14/2018
Nickel	0.30	0.0080		mg/L	2	11/14/2018
Potassium	11	0.40		mg/L	2	11/14/2018
Selenium	ND	0.0040		mg/L	2	11/14/2018
Silver	ND	0.0040		mg/L	2	11/14/2018
Sodium	39	0.80		mg/L	2	11/14/2018
Thallium	0.0067	0.0020		mg/L	2	11/14/2018
Vanadium	0.32	0.0080		mg/L	2	11/14/2018
Zinc	0.71	0.020		mg/L	2	11/14/2018
<b>Mercury, Dissolved</b>						
	<b>SW7470A</b>			Prep Date: 11/15/2018 Analyst: LB		
Mercury	ND	0.00020		mg/L	1	11/15/2018
<b>Mercury</b>						
	<b>SW7470A</b>			Prep Date: 11/14/2018 Analyst: LB		
Mercury	ND	0.00020		mg/L	1	11/14/2018

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

**Qualifiers:**

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded



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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: November 19, 2018

**ANALYTICAL RESULTS**

Date Printed: November 19, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110407 Revision 0  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110407-001

**Client Sample ID:** MW-116B  
**Collection Date:** 11/12/2018 1:30:00 PM  
**Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Cyanide, Total</b> Cyanide	<b>SW9012A</b> ND	0.0050		mg/L	1	Prep Date: <b>11/13/2018</b> Analyst: <b>JTB</b> 11/14/2018
<b>pH</b> pH	<b>E150.1</b> 7.0		HT*	pH units	1	Prep Date: <b>11/12/2018</b> Analyst: <b>RW</b> 11/12/2018

DRAFT

**Qualifiers:**

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 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
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Date Reported: November 19, 2018

**ANALYTICAL RESULTS**

Date Printed: November 19, 2018

Client: Carnow, Conibear, & Associates  
 Work Order: 18110407 Revision 0  
 Project: Firestation 115 B, 119th & Morgan St.  
 Lab ID: 18110407-002

Client Sample ID: MW-113B  
 Collection Date: 11/12/2018 12:30:00 PM  
 Matrix: Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>	<b>SW8260B (SW5030B)</b>			Prep Date:		Analyst: <b>MJK</b>
Acetone	ND	0.020		mg/L	1	11/13/2018
Benzene	ND	0.0050		mg/L	1	11/13/2018
Bromodichloromethane	ND	0.0050		mg/L	1	11/13/2018
Bromoform	ND	0.0050		mg/L	1	11/13/2018
Bromomethane	ND	0.010		mg/L	1	11/13/2018
2-Butanone	ND	0.020		mg/L	1	11/13/2018
Carbon disulfide	ND	0.010		mg/L	1	11/13/2018
Carbon tetrachloride	ND	0.0050		mg/L	1	11/13/2018
Chlorobenzene	ND	0.0050		mg/L	1	11/13/2018
Chloroethane	ND	0.010		mg/L	1	11/13/2018
Chloroform	ND	0.0050		mg/L	1	11/13/2018
Chloromethane	ND	0.010		mg/L	1	11/13/2018
Dibromochloromethane	ND	0.0050		mg/L	1	11/13/2018
1,1-Dichloroethane	ND	0.0050		mg/L	1	11/13/2018
1,2-Dichloroethane	ND	0.0050		mg/L	1	11/13/2018
1,1-Dichloroethene	ND	0.0050		mg/L	1	11/13/2018
cis-1,2-Dichloroethene	ND	0.0050		mg/L	1	11/13/2018
trans-1,2-Dichloroethene	ND	0.0050		mg/L	1	11/13/2018
1,2-Dichloropropane	ND	0.0050		mg/L	1	11/13/2018
cis-1,3-Dichloropropene	ND	0.0010		mg/L	1	11/13/2018
trans-1,3-Dichloropropene	ND	0.0010		mg/L	1	11/13/2018
Ethylbenzene	ND	0.0050		mg/L	1	11/13/2018
2-Hexanone	ND	0.020		mg/L	1	11/13/2018
4-Methyl-2-pentanone	ND	0.020		mg/L	1	11/13/2018
Methylene chloride	ND	0.0050		mg/L	1	11/13/2018
Methyl tert-butyl ether	ND	0.0050		mg/L	1	11/13/2018
Styrene	ND	0.0050		mg/L	1	11/13/2018
1,1,2,2-Tetrachloroethane	ND	0.0050		mg/L	1	11/13/2018
Tetrachloroethene	ND	0.0050		mg/L	1	11/13/2018
Toluene	ND	0.0050		mg/L	1	11/13/2018
1,1,1-Trichloroethane	ND	0.0050		mg/L	1	11/13/2018
1,1,2-Trichloroethane	ND	0.0050		mg/L	1	11/13/2018
Trichloroethene	ND	0.0050		mg/L	1	11/13/2018
Vinyl chloride	ND	0.0020		mg/L	1	11/13/2018
Xylenes, Total	ND	0.015		mg/L	1	11/13/2018
<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C-SIM (SW3510C)</b>			Prep Date: 11/16/2018		Analyst: <b>DM</b>
Acenaphthene	ND	0.0010		mg/L	1	11/19/2018
Acenaphthylene	ND	0.0010		mg/L	1	11/19/2018

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

**Qualifiers:**

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

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R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: November 19, 2018

**ANALYTICAL RESULTS**

Date Printed: November 19, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110407 Revision 0  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110407-002

**Client Sample ID:** MW-113B  
**Collection Date:** 11/12/2018 12:30:00 PM  
**Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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**Semivolatile Organic Compounds by GC/MS SW8270C-SIM (SW3510C) Prep Date: 11/16/2018 Analyst: DM**

Anthracene	ND	0.0010		mg/L	1	11/19/2018
Benz(a)anthracene	ND	0.00010		mg/L	1	11/19/2018
Benzo(a)pyrene	ND	0.00010		mg/L	1	11/19/2018
Benzo(b)fluoranthene	ND	0.00010		mg/L	1	11/19/2018
Benzo(g,h,i)perylene	ND	0.0010		mg/L	1	11/19/2018
Benzo(k)fluoranthene	ND	0.00010		mg/L	1	11/19/2018
Carbazole	ND	0.00050		mg/L	1	11/19/2018
Chrysene	ND	0.00010		mg/L	1	11/19/2018
Dibenz(a,h)anthracene	ND	0.00010		mg/L	1	11/19/2018
2,4-Dinitrotoluene	ND	0.00010		mg/L	1	11/19/2018
2,6-Dinitrotoluene	ND	0.00010		mg/L	1	11/19/2018
Fluoranthene	ND	0.0010		mg/L	1	11/19/2018
Fluorene	ND	0.0010		mg/L	1	11/19/2018
Naphthalene	ND	0.0010		mg/L	1	11/19/2018
Indeno(1,2,3-cd)pyrene	ND	0.00010		mg/L	1	11/19/2018
Nitrobenzene	ND	0.0010		mg/L	1	11/19/2018
N-Nitrosodi-n-propylamine	ND	0.00010		mg/L	1	11/19/2018
Pentachlorophenol	ND	0.00050		mg/L	1	11/19/2018
Phenanthrene	ND	0.0010		mg/L	1	11/19/2018
Pyrene	ND	0.0010		mg/L	1	11/19/2018

**Semivolatile Organic Compounds by GC/MS SW8270C (SW3510C) Prep Date: 11/16/2018 Analyst: DM**

Aniline	ND	0.0050		mg/L	1	11/19/2018
Benzidine	ND	0.0050		mg/L	1	11/19/2018
Benzoic acid	ND	0.025		mg/L	1	11/19/2018
Benzyl alcohol	ND	0.0050		mg/L	1	11/19/2018
Bis(2-chloroethoxy)methane	ND	0.0050		mg/L	1	11/19/2018
Bis(2-chloroethyl)ether	ND	0.0050		mg/L	1	11/19/2018
Bis(2-ethylhexyl)phthalate	ND	0.0050		mg/L	1	11/19/2018
4-Bromophenyl phenyl ether	ND	0.0050		mg/L	1	11/19/2018
Butyl benzyl phthalate	ND	0.0050		mg/L	1	11/19/2018
4-Chloroaniline	ND	0.0050		mg/L	1	11/19/2018
4-Chloro-3-methylphenol	ND	0.0050		mg/L	1	11/19/2018
2-Chloronaphthalene	ND	0.0050		mg/L	1	11/19/2018
2-Chlorophenol	ND	0.0050		mg/L	1	11/19/2018
4-Chlorophenyl phenyl ether	ND	0.0050		mg/L	1	11/19/2018
Dibenzofuran	ND	0.0050		mg/L	1	11/19/2018
1,2-Dichlorobenzene	ND	0.0050		mg/L	1	11/19/2018
1,3-Dichlorobenzene	ND	0.0050		mg/L	1	11/19/2018

**Qualifiers:**  
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 HT - Sample received past holding time  
 \* - Non-accredited parameter

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Date Reported: November 19, 2018

**ANALYTICAL RESULTS**

Date Printed: November 19, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110407 Revision 0  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110407-002

**Client Sample ID:** MW-113B  
**Collection Date:** 11/12/2018 12:30:00 PM  
**Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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**Semivolatile Organic Compounds by GC/MS**      **SW8270C (SW3510C)**      Prep Date: 11/16/2018      Analyst: DM

1,4-Dichlorobenzene	ND	0.0050		mg/L	1	11/19/2018
3,3'-Dichlorobenzidine	ND	0.010		mg/L	1	11/19/2018
2,4-Dichlorophenol	ND	0.0050		mg/L	1	11/19/2018
Diethyl phthalate	ND	0.0050		mg/L	1	11/19/2018
2,4-Dimethylphenol	ND	0.0050		mg/L	1	11/19/2018
Dimethyl phthalate	ND	0.0050		mg/L	1	11/19/2018
4,6-Dinitro-2-methylphenol	ND	0.025		mg/L	1	11/19/2018
2,4-Dinitrophenol	ND	0.025		mg/L	1	11/19/2018
Di-n-butyl phthalate	ND	0.0050		mg/L	1	11/19/2018
Di-n-octyl phthalate	ND	0.0050		mg/L	1	11/19/2018
Hexachlorobenzene	ND	0.0050		mg/L	1	11/19/2018
Hexachlorobutadiene	ND	0.0050		mg/L	1	11/19/2018
Hexachlorocyclopentadiene	ND	0.0050		mg/L	1	11/19/2018
Hexachloroethane	ND	0.0050		mg/L	1	11/19/2018
Isophorone	ND	0.0050		mg/L	1	11/19/2018
2-Methylnaphthalene	ND	0.0050		mg/L	1	11/19/2018
2-Methylphenol	ND	0.0050		mg/L	1	11/19/2018
4-Methylphenol	ND	0.0050		mg/L	1	11/19/2018
2-Nitroaniline	ND	0.025		mg/L	1	11/19/2018
3-Nitroaniline	ND	0.025		mg/L	1	11/19/2018
4-Nitroaniline	ND	0.025		mg/L	1	11/19/2018
2-Nitrophenol	ND	0.0050		mg/L	1	11/19/2018
4-Nitrophenol	ND	0.025		mg/L	1	11/19/2018
N-Nitrosodimethylamine	ND	0.0050		mg/L	1	11/19/2018
N-Nitrosodiphenylamine	ND	0.0050		mg/L	1	11/19/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.0050		mg/L	1	11/19/2018
Phenol	ND	0.0050		mg/L	1	11/19/2018
Pyridine	ND	0.0050		mg/L	1	11/19/2018
1,2,4-Trichlorobenzene	ND	0.0050		mg/L	1	11/19/2018
2,4,5-Trichlorophenol	ND	0.010		mg/L	1	11/19/2018
2,4,6-Trichlorophenol	ND	0.0050		mg/L	1	11/19/2018

**PCBs in Water**      **SW8082A (SW3510C)**      Prep Date: 11/15/2018      Analyst: GVC

Aroclor 1016	ND	0.00050		mg/L	1	11/15/2018
Aroclor 1221	ND	0.00050		mg/L	1	11/15/2018
Aroclor 1232	ND	0.00050		mg/L	1	11/15/2018
Aroclor 1242	ND	0.00050		mg/L	1	11/15/2018
Aroclor 1248	ND	0.00050		mg/L	1	11/15/2018
Aroclor 1254	ND	0.00050		mg/L	1	11/15/2018

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Date Reported: November 19, 2018

**ANALYTICAL RESULTS**

Date Printed: November 19, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110407 Revision 0  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110407-002

**Client Sample ID:** MW-113B  
**Collection Date:** 11/12/2018 12:30:00 PM  
**Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>PCBs in Water</b>						
	<b>SW8082A (SW3510C)</b>			Prep Date: 11/15/2018		Analyst: GVC
Aroclor 1260	ND	0.00050		mg/L	1	11/15/2018
<b>Pesticides</b>						
	<b>SW8081B (SW3510C)</b>			Prep Date: 11/15/2018		Analyst: GVC
4,4'-DDD	ND	0.000050		mg/L	1	11/15/2018
4,4'-DDE	ND	0.000050		mg/L	1	11/15/2018
4,4'-DDT	ND	0.000050		mg/L	1	11/15/2018
Aldrin	ND	0.000050		mg/L	1	11/15/2018
alpha-BHC	ND	0.000050		mg/L	1	11/15/2018
alpha-Chlordane	ND	0.000050		mg/L	1	11/15/2018
beta-BHC	ND	0.000050		mg/L	1	11/15/2018
Chlordane	ND	0.0010		mg/L	1	11/15/2018
delta-BHC	ND	0.000050		mg/L	1	11/15/2018
Dieldrin	ND	0.000050		mg/L	1	11/15/2018
Endosulfan I	ND	0.000050		mg/L	1	11/15/2018
Endosulfan II	ND	0.000050		mg/L	1	11/15/2018
Endosulfan sulfate	ND	0.000050		mg/L	1	11/15/2018
Endrin	ND	0.000050		mg/L	1	11/15/2018
Endrin aldehyde	ND	0.000050		mg/L	1	11/15/2018
Endrin ketone	ND	0.000050		mg/L	1	11/15/2018
gamma-BHC	ND	0.000050		mg/L	1	11/15/2018
gamma-Chlordane	ND	0.000050		mg/L	1	11/15/2018
Heptachlor	ND	0.000050		mg/L	1	11/15/2018
Heptachlor epoxide	ND	0.000050		mg/L	1	11/15/2018
Methoxychlor	ND	0.000050		mg/L	1	11/15/2018
Toxaphene	ND	0.0010		mg/L	1	11/15/2018
<b>Dissolved Metals by ICP/MS</b>						
	<b>SW6020A (SW3005A)</b>			Prep Date: 11/14/2018		Analyst: JG
Aluminum	ND	0.040		mg/L	2	11/14/2018
Antimony	ND	0.0060		mg/L	2	11/15/2018
Arsenic	0.015	0.0040		mg/L	2	11/14/2018
Barium	0.064	0.0040		mg/L	2	11/14/2018
Beryllium	ND	0.0020		mg/L	2	11/14/2018
Cadmium	ND	0.0020		mg/L	2	11/14/2018
Calcium	120	0.20		mg/L	2	11/14/2018
Chromium	ND	0.0040		mg/L	2	11/14/2018
Cobalt	ND	0.0040		mg/L	2	11/14/2018
Copper	ND	0.010		mg/L	2	11/14/2018
Iron	2.5	0.10		mg/L	2	11/14/2018
Lead	ND	0.0020		mg/L	2	11/14/2018

**Qualifiers:**

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 \* - Non-accredited parameter

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 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
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Date Reported: November 19, 2018

**ANALYTICAL RESULTS**

Date Printed: November 19, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110407 Revision 0  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110407-002

**Client Sample ID:** MW-113B  
**Collection Date:** 11/12/2018 12:30:00 PM  
**Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Dissolved Metals by ICP/MS</b>		<b>SW6020A (SW3005A)</b>		Prep Date: 11/14/2018		Analyst: JG
Magnesium	57	0.10		mg/L	2	11/14/2018
Manganese	0.35	0.0040		mg/L	2	11/14/2018
Nickel	ND	0.0080		mg/L	2	11/14/2018
Potassium	1.2	0.40		mg/L	2	11/14/2018
Selenium	ND	0.0040		mg/L	2	11/14/2018
Silver	ND	0.0040		mg/L	2	11/14/2018
Sodium	12	0.80		mg/L	2	11/14/2018
Thallium	ND	0.0020		mg/L	2	11/14/2018
Vanadium	0.021	0.0080		mg/L	2	11/14/2018
Zinc	ND	0.020		mg/L	2	11/14/2018
<b>Metals by ICP/MS</b>		<b>SW6020A (SW3005A)</b>		Prep Date: 11/14/2018		Analyst: JG
Aluminum	34	0.040		mg/L	2	11/14/2018
Antimony	ND	0.0060		mg/L	2	11/14/2018
Arsenic	0.075	0.0040		mg/L	2	11/14/2018
Barium	0.26	0.0040		mg/L	2	11/14/2018
Beryllium	0.0024	0.0020		mg/L	2	11/14/2018
Cadmium	ND	0.0020		mg/L	2	11/14/2018
Calcium	360	0.20		mg/L	2	11/14/2018
Chromium	0.079	0.0040		mg/L	2	11/14/2018
Cobalt	0.067	0.0040		mg/L	2	11/14/2018
Copper	0.17	0.010		mg/L	2	11/14/2018
Iron	98	0.10		mg/L	2	11/14/2018
Lead	0.13	0.0020		mg/L	2	11/14/2018
Magnesium	200	0.10		mg/L	2	11/14/2018
Manganese	2.2	0.0040		mg/L	2	11/14/2018
Nickel	0.13	0.0080		mg/L	2	11/14/2018
Potassium	8.6	0.40		mg/L	2	11/14/2018
Selenium	ND	0.0040		mg/L	2	11/14/2018
Silver	ND	0.0040		mg/L	2	11/14/2018
Sodium	12	0.80		mg/L	2	11/14/2018
Thallium	0.0032	0.0020		mg/L	2	11/14/2018
Vanadium	0.16	0.0080		mg/L	2	11/14/2018
Zinc	0.35	0.020		mg/L	2	11/14/2018
<b>Mercury, Dissolved</b>		<b>SW7470A</b>		Prep Date: 11/15/2018		Analyst: LB
Mercury	ND	0.00020		mg/L	1	11/15/2018
<b>Mercury</b>		<b>SW7470A</b>		Prep Date: 11/14/2018		Analyst: LB
Mercury	ND	0.00020		mg/L	1	11/14/2018

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 HT - Sample received past holding time  
 \* - Non-accredited parameter

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 H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: November 19, 2018

**ANALYTICAL RESULTS**

Date Printed: November 19, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110407 Revision 0  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110407-002

**Client Sample ID:** MW-113B  
**Collection Date:** 11/12/2018 12:30:00 PM  
**Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Cyanide, Total</b> Cyanide	<b>SW9012A</b> ND	0.0050		mg/L	1	Prep Date: <b>11/13/2018</b> Analyst: <b>JTB</b> 11/14/2018
<b>pH</b> pH	<b>E150.1</b> 6.9		HT*	pH units	1	Prep Date: <b>11/12/2018</b> Analyst: <b>RW</b> 11/12/2018

DRAFT

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Date Reported: November 19, 2018

**ANALYTICAL RESULTS**

Date Printed: November 19, 2018

Client: Carnow, Conibear, & Associates  
 Work Order: 18110407 Revision 0  
 Project: Firestation 115 B, 119th & Morgan St.  
 Lab ID: 18110407-003

Client Sample ID: MW-105B  
 Collection Date: 11/12/2018 10:00:00 AM  
 Matrix: Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW8260B (SW5030B)</b>		Prep Date:		Analyst: <b>MJK</b>
Acetone	ND	0.020		mg/L	1	11/13/2018
Benzene	ND	0.0050		mg/L	1	11/13/2018
Bromodichloromethane	ND	0.0050		mg/L	1	11/13/2018
Bromoform	ND	0.0050		mg/L	1	11/13/2018
Bromomethane	ND	0.010		mg/L	1	11/13/2018
2-Butanone	ND	0.020		mg/L	1	11/13/2018
Carbon disulfide	ND	0.010		mg/L	1	11/13/2018
Carbon tetrachloride	ND	0.0050		mg/L	1	11/13/2018
Chlorobenzene	ND	0.0050		mg/L	1	11/13/2018
Chloroethane	ND	0.010		mg/L	1	11/13/2018
Chloroform	ND	0.0050		mg/L	1	11/13/2018
Chloromethane	ND	0.010		mg/L	1	11/13/2018
Dibromochloromethane	ND	0.0050		mg/L	1	11/13/2018
1,1-Dichloroethane	ND	0.0050		mg/L	1	11/13/2018
1,2-Dichloroethane	ND	0.0050		mg/L	1	11/13/2018
1,1-Dichloroethene	ND	0.0050		mg/L	1	11/13/2018
cis-1,2-Dichloroethene	ND	0.0050		mg/L	1	11/13/2018
trans-1,2-Dichloroethene	ND	0.0050		mg/L	1	11/13/2018
1,2-Dichloropropane	ND	0.0050		mg/L	1	11/13/2018
cis-1,3-Dichloropropene	ND	0.0010		mg/L	1	11/13/2018
trans-1,3-Dichloropropene	ND	0.0010		mg/L	1	11/13/2018
Ethylbenzene	ND	0.0050		mg/L	1	11/13/2018
2-Hexanone	ND	0.020		mg/L	1	11/13/2018
4-Methyl-2-pentanone	ND	0.020		mg/L	1	11/13/2018
Methylene chloride	ND	0.0050		mg/L	1	11/13/2018
Methyl tert-butyl ether	ND	0.0050		mg/L	1	11/13/2018
Styrene	ND	0.0050		mg/L	1	11/13/2018
1,1,2,2-Tetrachloroethane	ND	0.0050		mg/L	1	11/13/2018
Tetrachloroethene	ND	0.0050		mg/L	1	11/13/2018
Toluene	ND	0.0050		mg/L	1	11/13/2018
1,1,1-Trichloroethane	ND	0.0050		mg/L	1	11/13/2018
1,1,2-Trichloroethane	ND	0.0050		mg/L	1	11/13/2018
Trichloroethene	ND	0.0050		mg/L	1	11/13/2018
Vinyl chloride	ND	0.0020		mg/L	1	11/13/2018
Xylenes, Total	ND	0.015		mg/L	1	11/13/2018
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C-SIM (SW3510C)</b>		Prep Date: 11/16/2018		Analyst: <b>DM</b>
Acenaphthene	ND	0.0010		mg/L	1	11/19/2018
Acenaphthylene	ND	0.0010		mg/L	1	11/19/2018

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Date Reported: November 19, 2018

**ANALYTICAL RESULTS**

Date Printed: November 19, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110407 Revision 0  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110407-003

**Client Sample ID:** MW-105B  
**Collection Date:** 11/12/2018 10:00:00 AM  
**Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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**Semivolatile Organic Compounds by GC/MS SW8270C-SIM (SW3510C) Prep Date: 11/16/2018 Analyst: DM**

Anthracene	ND	0.0010		mg/L	1	11/19/2018
Benz(a)anthracene	ND	0.00010		mg/L	1	11/19/2018
Benzo(a)pyrene	ND	0.00010		mg/L	1	11/19/2018
Benzo(b)fluoranthene	ND	0.00010		mg/L	1	11/19/2018
Benzo(g,h,i)perylene	ND	0.0010		mg/L	1	11/19/2018
Benzo(k)fluoranthene	ND	0.00010		mg/L	1	11/19/2018
Carbazole	ND	0.00050		mg/L	1	11/19/2018
Chrysene	ND	0.00010		mg/L	1	11/19/2018
Dibenz(a,h)anthracene	ND	0.00010		mg/L	1	11/19/2018
2,4-Dinitrotoluene	ND	0.00010		mg/L	1	11/19/2018
2,6-Dinitrotoluene	ND	0.00010		mg/L	1	11/19/2018
Fluoranthene	ND	0.0010		mg/L	1	11/19/2018
Fluorene	ND	0.0010		mg/L	1	11/19/2018
Naphthalene	ND	0.0010		mg/L	1	11/19/2018
Indeno(1,2,3-cd)pyrene	ND	0.00010		mg/L	1	11/19/2018
Nitrobenzene	ND	0.0010		mg/L	1	11/19/2018
N-Nitrosodi-n-propylamine	ND	0.00010		mg/L	1	11/19/2018
Pentachlorophenol	ND	0.00050		mg/L	1	11/19/2018
Phenanthrene	ND	0.0010		mg/L	1	11/19/2018
Pyrene	ND	0.0010		mg/L	1	11/19/2018

**Semivolatile Organic Compounds by GC/MS SW8270C (SW3510C) Prep Date: 11/16/2018 Analyst: DM**

Aniline	ND	0.0050		mg/L	1	11/19/2018
Benzidine	ND	0.0050		mg/L	1	11/19/2018
Benzoic acid	ND	0.025		mg/L	1	11/19/2018
Benzyl alcohol	ND	0.0050		mg/L	1	11/19/2018
Bis(2-chloroethoxy)methane	ND	0.0050		mg/L	1	11/19/2018
Bis(2-chloroethyl)ether	ND	0.0050		mg/L	1	11/19/2018
Bis(2-ethylhexyl)phthalate	ND	0.0050		mg/L	1	11/19/2018
4-Bromophenyl phenyl ether	ND	0.0050		mg/L	1	11/19/2018
Butyl benzyl phthalate	ND	0.0050		mg/L	1	11/19/2018
4-Chloroaniline	ND	0.0050		mg/L	1	11/19/2018
4-Chloro-3-methylphenol	ND	0.0050		mg/L	1	11/19/2018
2-Chloronaphthalene	ND	0.0050		mg/L	1	11/19/2018
2-Chlorophenol	ND	0.0050		mg/L	1	11/19/2018
4-Chlorophenyl phenyl ether	ND	0.0050		mg/L	1	11/19/2018
Dibenzofuran	ND	0.0050		mg/L	1	11/19/2018
1,2-Dichlorobenzene	ND	0.0050		mg/L	1	11/19/2018
1,3-Dichlorobenzene	ND	0.0050		mg/L	1	11/19/2018

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Date Reported: November 19, 2018

**ANALYTICAL RESULTS**

Date Printed: November 19, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110407 Revision 0  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110407-003

**Client Sample ID:** MW-105B  
**Collection Date:** 11/12/2018 10:00:00 AM  
**Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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**Semivolatile Organic Compounds by GC/MS SW8270C (SW3510C) Prep Date: 11/16/2018 Analyst: DM**

1,4-Dichlorobenzene	ND	0.0050		mg/L	1	11/19/2018
3,3'-Dichlorobenzidine	ND	0.010		mg/L	1	11/19/2018
2,4-Dichlorophenol	ND	0.0050		mg/L	1	11/19/2018
Diethyl phthalate	ND	0.0050		mg/L	1	11/19/2018
2,4-Dimethylphenol	ND	0.0050		mg/L	1	11/19/2018
Dimethyl phthalate	ND	0.0050		mg/L	1	11/19/2018
4,6-Dinitro-2-methylphenol	ND	0.025		mg/L	1	11/19/2018
2,4-Dinitrophenol	ND	0.025		mg/L	1	11/19/2018
Di-n-butyl phthalate	ND	0.0050		mg/L	1	11/19/2018
Di-n-octyl phthalate	ND	0.0050		mg/L	1	11/19/2018
Hexachlorobenzene	ND	0.0050		mg/L	1	11/19/2018
Hexachlorobutadiene	ND	0.0050		mg/L	1	11/19/2018
Hexachlorocyclopentadiene	ND	0.0050		mg/L	1	11/19/2018
Hexachloroethane	ND	0.0050		mg/L	1	11/19/2018
Isophorone	ND	0.0050		mg/L	1	11/19/2018
2-Methylnaphthalene	ND	0.0050		mg/L	1	11/19/2018
2-Methylphenol	ND	0.0050		mg/L	1	11/19/2018
4-Methylphenol	ND	0.0050		mg/L	1	11/19/2018
2-Nitroaniline	ND	0.025		mg/L	1	11/19/2018
3-Nitroaniline	ND	0.025		mg/L	1	11/19/2018
4-Nitroaniline	ND	0.025		mg/L	1	11/19/2018
2-Nitrophenol	ND	0.0050		mg/L	1	11/19/2018
4-Nitrophenol	ND	0.025		mg/L	1	11/19/2018
N-Nitrosodimethylamine	ND	0.0050		mg/L	1	11/19/2018
N-Nitrosodiphenylamine	ND	0.0050		mg/L	1	11/19/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.0050		mg/L	1	11/19/2018
Phenol	ND	0.0050		mg/L	1	11/19/2018
Pyridine	ND	0.0050		mg/L	1	11/19/2018
1,2,4-Trichlorobenzene	ND	0.0050		mg/L	1	11/19/2018
2,4,5-Trichlorophenol	ND	0.010		mg/L	1	11/19/2018
2,4,6-Trichlorophenol	ND	0.0050		mg/L	1	11/19/2018

**PCBs in Water SW8082A (SW3510C) Prep Date: 11/15/2018 Analyst: GVC**

Aroclor 1016	ND	0.00050		mg/L	1	11/15/2018
Aroclor 1221	ND	0.00050		mg/L	1	11/15/2018
Aroclor 1232	ND	0.00050		mg/L	1	11/15/2018
Aroclor 1242	ND	0.00050		mg/L	1	11/15/2018
Aroclor 1248	ND	0.00050		mg/L	1	11/15/2018
Aroclor 1254	ND	0.00050		mg/L	1	11/15/2018

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Date Reported: November 19, 2018

**ANALYTICAL RESULTS**

Date Printed: November 19, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110407 Revision 0  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110407-003

**Client Sample ID:** MW-105B  
**Collection Date:** 11/12/2018 10:00:00 AM  
**Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>PCBs in Water</b>	<b>SW8082A (SW3510C)</b>		Prep Date: 11/15/2018		Analyst: GVC	
Aroclor 1260	ND	0.00050		mg/L	1	11/15/2018
<b>Pesticides</b>	<b>SW8081B (SW3510C)</b>		Prep Date: 11/15/2018		Analyst: GVC	
4,4'-DDD	ND	0.000050		mg/L	1	11/15/2018
4,4'-DDE	ND	0.000050		mg/L	1	11/15/2018
4,4'-DDT	ND	0.000050		mg/L	1	11/15/2018
Aldrin	ND	0.000050		mg/L	1	11/15/2018
alpha-BHC	ND	0.000050		mg/L	1	11/15/2018
alpha-Chlordane	ND	0.000050		mg/L	1	11/15/2018
beta-BHC	ND	0.000050		mg/L	1	11/15/2018
Chlordane	ND	0.0010		mg/L	1	11/15/2018
delta-BHC	ND	0.000050		mg/L	1	11/15/2018
Dieldrin	ND	0.000050		mg/L	1	11/15/2018
Endosulfan I	ND	0.000050		mg/L	1	11/15/2018
Endosulfan II	ND	0.000050		mg/L	1	11/15/2018
Endosulfan sulfate	ND	0.000050		mg/L	1	11/15/2018
Endrin	ND	0.000050		mg/L	1	11/15/2018
Endrin aldehyde	ND	0.000050		mg/L	1	11/15/2018
Endrin ketone	ND	0.000050		mg/L	1	11/15/2018
gamma-BHC	ND	0.000050		mg/L	1	11/15/2018
gamma-Chlordane	ND	0.000050		mg/L	1	11/15/2018
Heptachlor	ND	0.000050		mg/L	1	11/15/2018
Heptachlor epoxide	ND	0.000050		mg/L	1	11/15/2018
Methoxychlor	ND	0.000050		mg/L	1	11/15/2018
Toxaphene	ND	0.0010		mg/L	1	11/15/2018
<b>Dissolved Metals by ICP/MS</b>	<b>SW6020A (SW3005A)</b>		Prep Date: 11/14/2018		Analyst: JG	
Aluminum	ND	0.040		mg/L	2	11/14/2018
Antimony	ND	0.0060		mg/L	2	11/15/2018
Arsenic	0.0072	0.0040		mg/L	2	11/14/2018
Barium	0.075	0.0040		mg/L	2	11/14/2018
Beryllium	ND	0.0020		mg/L	2	11/14/2018
Cadmium	ND	0.0020		mg/L	2	11/14/2018
Calcium	140	0.20		mg/L	2	11/14/2018
Chromium	ND	0.0040		mg/L	2	11/14/2018
Cobalt	ND	0.0040		mg/L	2	11/14/2018
Copper	ND	0.010		mg/L	2	11/14/2018
Iron	3.3	0.10		mg/L	2	11/14/2018
Lead	ND	0.0020		mg/L	2	11/14/2018

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Date Reported: November 19, 2018

**ANALYTICAL RESULTS**

Date Printed: November 19, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110407 Revision 0  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110407-003

**Client Sample ID:** MW-105B  
**Collection Date:** 11/12/2018 10:00:00 AM  
**Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Dissolved Metals by ICP/MS</b>						
	<b>SW6020A (SW3005A)</b>			Prep Date: 11/14/2018		Analyst: JG
Magnesium	58	0.10		mg/L	2	11/14/2018
Manganese	0.24	0.0040		mg/L	2	11/14/2018
Nickel	ND	0.0080		mg/L	2	11/14/2018
Potassium	1.3	0.40		mg/L	2	11/14/2018
Selenium	ND	0.0040		mg/L	2	11/14/2018
Silver	ND	0.0040		mg/L	2	11/14/2018
Sodium	25	0.80		mg/L	2	11/14/2018
Thallium	ND	0.0020		mg/L	2	11/14/2018
Vanadium	0.021	0.0080		mg/L	2	11/14/2018
Zinc	ND	0.020		mg/L	2	11/14/2018
<b>Metals by ICP/MS</b>						
	<b>SW6020A (SW3005A)</b>			Prep Date: 11/14/2018		Analyst: JG
Aluminum	9.2	0.040		mg/L	2	11/14/2018
Antimony	ND	0.0060		mg/L	2	11/14/2018
Arsenic	0.017	0.0040		mg/L	2	11/14/2018
Barium	0.12	0.0040		mg/L	2	11/14/2018
Beryllium	ND	0.0020		mg/L	2	11/14/2018
Cadmium	ND	0.0020		mg/L	2	11/14/2018
Calcium	150	0.20		mg/L	2	11/14/2018
Chromium	0.019	0.0040		mg/L	2	11/14/2018
Cobalt	0.011	0.0040		mg/L	2	11/14/2018
Copper	0.025	0.010		mg/L	2	11/14/2018
Iron	21	0.10		mg/L	2	11/14/2018
Lead	0.020	0.0020		mg/L	2	11/14/2018
Magnesium	61	0.10		mg/L	2	11/14/2018
Manganese	0.41	0.0040		mg/L	2	11/14/2018
Nickel	0.023	0.0080		mg/L	2	11/14/2018
Potassium	3.9	0.40		mg/L	2	11/14/2018
Selenium	ND	0.0040		mg/L	2	11/14/2018
Silver	ND	0.0040		mg/L	2	11/14/2018
Sodium	23	0.80		mg/L	2	11/14/2018
Thallium	ND	0.0020		mg/L	2	11/14/2018
Vanadium	0.044	0.0080		mg/L	2	11/14/2018
Zinc	0.10	0.020		mg/L	2	11/14/2018
<b>Mercury, Dissolved</b>						
	<b>SW7470A</b>			Prep Date: 11/15/2018		Analyst: LB
Mercury	ND	0.00020		mg/L	1	11/15/2018
<b>Mercury</b>						
	<b>SW7470A</b>			Prep Date: 11/14/2018		Analyst: LB
Mercury	ND	0.00020		mg/L	1	11/14/2018

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: November 19, 2018

**ANALYTICAL RESULTS**

Date Printed: November 19, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110407 Revision 0  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110407-003

**Client Sample ID:** MW-105B  
**Collection Date:** 11/12/2018 10:00:00 AM  
**Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Cyanide, Total</b> Cyanide	<b>SW9012A</b> ND	0.0050		mg/L	1	Prep Date: <b>11/13/2018</b> Analyst: <b>JTB</b> 11/14/2018
<b>pH</b> pH	<b>E150.1</b> 7.0		HT*	pH units	1	Prep Date: <b>11/12/2018</b> Analyst: <b>RW</b> 11/12/2018

DRAFT

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded



### Sample Receipt Checklist

Client Name CCA

Date and Time Received: 11/12/2018 3:25:00 PM

Work Order Number 18110407

Received by: EAA

Checklist completed by: elm 11/12/18  
Signature Date

Reviewed by: EA 11/13/18  
Initials Date

Matrix: Carrier name Client Delivered

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels/containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container or Temp Blank temperature in compliance? Yes  No  Temperature 4.0 °C
- Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No
- Water - Samples pH checked? Yes  No  Checked by: E-A
- Water - Samples properly preserved? Yes  No  pH Adjusted? NO

Any No response must be detailed in the comments section below.

Comments: Samples were received past hold time for pH in water analysis.

Client / Person contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_

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December 13, 2018

Carnow, Conibear, & Associates  
600 W. Van Buren Street  
Chicago, IL 60607

Telephone: (312) 782-4486  
Fax: (312) 782-5145

Analytical Report for STAT Work Order: 18110408 Revision 4

RE: Firestation 115 B, 119th & Morgan St.

Dear Karen Zelzer:

STAT Analysis received 22 samples for the referenced project on 11/12/2018 3:25:00 PM. The analytical results are presented in the following report.

This report is revised to reflect additional analysis requested after the last report revision.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAP standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Justice Kwateng  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*



**Client:** Carnow, Conibear, & Associates  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Work Order:** 18110408 Revision 4

**Work Order Sample Summary**

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
18110408-001A	B-112B (1-3)		11/12/2018 12:50:00 PM	11/12/2018
18110408-001B	B-112B (1-3)		11/12/2018 12:50:00 PM	11/12/2018
18110408-002A	B-112B (3-5)		11/12/2018 1:00:00 PM	11/12/2018
18110408-002B	B-112B (3-5)		11/12/2018 1:00:00 PM	11/12/2018
18110408-003A	B-108B (1-3)		11/12/2018 12:15:00 PM	11/12/2018
18110408-003B	B-108B (1-3)		11/12/2018 12:15:00 PM	11/12/2018
18110408-004A	B-108B (3-5)		11/12/2018 12:20:00 PM	11/12/2018
18110408-004B	B-108B (3-5)		11/12/2018 12:20:00 PM	11/12/2018
18110408-005A	B-101B (1-3)		11/12/2018 11:55:00 PM	11/12/2018
18110408-005B	B-101B (1-3)		11/12/2018 11:55:00 PM	11/12/2018
18110408-006A	B-101B (3-5)		11/12/2018 12:03:00 AM	11/12/2018
18110408-006B	B-101B (3-5)		11/12/2018 12:03:00 AM	11/12/2018
18110408-007A	B-102B (1-3)		11/12/2018 11:25:00 PM	11/12/2018
18110408-007B	B-102B (1-3)		11/12/2018 11:25:00 PM	11/12/2018
18110408-008A	B-102B (3-5)		11/12/2018 11:35:00 AM	11/12/2018
18110408-008B	B-102B (3-5)		11/12/2018 11:35:00 AM	11/12/2018
18110408-009A	B-116B (1-3)		11/12/2018 10:15:00 AM	11/12/2018
18110408-009B	B-116B (1-3)		11/12/2018 10:15:00 AM	11/12/2018
18110408-010A	B-116B (3-5)		11/12/2018 10:20:00 AM	11/12/2018
18110408-010B	B-116B (3-5)		11/12/2018 10:20:00 AM	11/12/2018
18110408-011A	B-113B (1-3)		11/12/2018 9:40:00 AM	11/12/2018
18110408-011B	B-113B (1-3)		11/12/2018 9:40:00 AM	11/12/2018
18110408-012A	B-113B (3-5)		11/12/2018 9:50:00 AM	11/12/2018
18110408-012B	B-113B (3-5)		11/12/2018 9:50:00 AM	11/12/2018
18110408-013A	B-103B (1-3)		11/12/2018 9:15:00 AM	11/12/2018
18110408-013B	B-103B (1-3)		11/12/2018 9:15:00 AM	11/12/2018
18110408-014A	B-103B (3-5)		11/12/2018 9:20:00 AM	11/12/2018
18110408-014B	B-103B (3-5)		11/12/2018 9:20:00 AM	11/12/2018
18110408-015A	B-104B (1-3)		11/12/2018 9:00:00 AM	11/12/2018
18110408-015B	B-104B (1-3)		11/12/2018 9:00:00 AM	11/12/2018
18110408-016A	B-109B (1-3)		11/12/2018 8:42:00 AM	11/12/2018
18110408-016B	B-109B (1-3)		11/12/2018 8:42:00 AM	11/12/2018
18110408-017A	B-109B (3-5)		11/12/2018 8:48:00 AM	11/12/2018
18110408-017B	B-109B (3-5)		11/12/2018 8:48:00 AM	11/12/2018
18110408-018A	B-110B (1-3)		11/12/2018 8:10:00 AM	11/12/2018
18110408-018B	B-110B (1-3)		11/12/2018 8:10:00 AM	11/12/2018
18110408-019A	B-110B (3-5)		11/12/2018 8:15:00 AM	11/12/2018
18110408-019B	B-110B (3-5)		11/12/2018 8:15:00 AM	11/12/2018

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**Client:** Carnow, Conibear, & Associates  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Work Order:** 18110408 Revision 4

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## Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
18110408-020A	B-105B (1-3)		11/12/2018 7:56:00 AM	11/12/2018
18110408-020B	B-105B (1-3)		11/12/2018 7:56:00 AM	11/12/2018
18110408-021A	B-105B (3-5)		11/12/2018 7:58:00 AM	11/12/2018
18110408-021B	B-105B (3-5)		11/12/2018 7:58:00 AM	11/12/2018
18110408-022A	WC-01		11/12/2018 1:00:00 PM	11/12/2018

DRAFT

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**CLIENT:** Carnow, Conibear, & Associates  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Work Order:** 18110408 Revision 4

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**CASE NARRATIVE**

The following parameters apply to sample B-112B (1-3) (18110408-022):

Reactivity with Water: Sample effervesced with no temperature change

Reactivity with Base: Sample effervesced with no temperature change

Reactivity with Acid: Sample effervesced with no temperature change

Odor: Slight

Physical Description: Brown and black soil with rocks

Sample B-109B (3-5) (18110408-017) had recovery of VOC surrogate 4-Bromofluorobenzene outside of control limits (123% recovery, QC Limits: 58-122%). Recovery of all other surrogates were within control limits.

For sample B-110B (1-3) (18110408-018), the Organic Carbon Content result was obtained by multiplying the Organic Matter result by the 0.58 correction factor as specified in Title 35 IAC 742.215.

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-001

**Client Sample ID:** B-112B (1-3)  
**Collection Date:** 11/12/2018 12:50:00 PM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: DM
Acenaphthene	ND	0.039		mg/Kg-dry	1	11/15/2018
Acenaphthylene	0.057	0.039		mg/Kg-dry	1	11/15/2018
Aniline	ND	0.39		mg/Kg-dry	1	11/15/2018
Anthracene	0.095	0.039		mg/Kg-dry	1	11/15/2018
Benz(a)anthracene	0.72	0.039		mg/Kg-dry	1	11/15/2018
Benzidine	ND	0.39		mg/Kg-dry	1	11/15/2018
Benzo(a)pyrene	0.81	0.039		mg/Kg-dry	1	11/15/2018
Benzo(b)fluoranthene	0.83	0.039		mg/Kg-dry	1	11/15/2018
Benzo(g,h,i)perylene	0.61	0.039		mg/Kg-dry	1	11/15/2018
Benzo(k)fluoranthene	0.65	0.039		mg/Kg-dry	1	11/15/2018
Benzoic acid	ND	0.98		mg/Kg-dry	1	11/15/2018
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	11/15/2018
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	11/15/2018
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	11/15/2018
Bis(2-ethylhexyl)phthalate	ND	0.98		mg/Kg-dry	1	11/15/2018
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	11/15/2018
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	11/15/2018
Carbazole	ND	0.20		mg/Kg-dry	1	11/15/2018
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	11/15/2018
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	11/15/2018
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	11/15/2018
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	11/15/2018
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	11/15/2018
Chrysene	0.80	0.039		mg/Kg-dry	1	11/15/2018
Dibenz(a,h)anthracene	0.27	0.039		mg/Kg-dry	1	11/15/2018
Dibenzofuran	ND	0.20		mg/Kg-dry	1	11/15/2018
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/15/2018
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/15/2018
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/15/2018
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	11/15/2018
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	11/15/2018
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	11/15/2018
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	11/15/2018
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	11/15/2018
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	11/15/2018
2,4-Dinitrophenol	ND	0.98		mg/Kg-dry	1	11/15/2018
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	11/15/2018
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	11/15/2018

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-001

**Client Sample ID:** B-112B (1-3)  
**Collection Date:** 11/12/2018 12:50:00 PM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: DM
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	11/15/2018
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	11/15/2018
Fluoranthene	1.2	0.039		mg/Kg-dry	1	11/15/2018
Fluorene	ND	0.039		mg/Kg-dry	1	11/15/2018
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	11/15/2018
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	11/15/2018
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	11/15/2018
Hexachloroethane	ND	0.20		mg/Kg-dry	1	11/15/2018
Indeno(1,2,3-cd)pyrene	0.54	0.039		mg/Kg-dry	1	11/15/2018
Isophorone	ND	0.20		mg/Kg-dry	1	11/15/2018
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	11/15/2018
2-Methylphenol	ND	0.20		mg/Kg-dry	1	11/15/2018
4-Methylphenol	ND	0.20		mg/Kg-dry	1	11/15/2018
Naphthalene	ND	0.039		mg/Kg-dry	1	11/15/2018
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/15/2018
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/15/2018
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/15/2018
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	11/15/2018
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	11/15/2018
Nitrobenzene	ND	0.039		mg/Kg-dry	1	11/15/2018
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	11/15/2018
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	11/15/2018
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	11/15/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	11/15/2018
Pentachlorophenol	ND	0.080		mg/Kg-dry	1	11/15/2018
Phenanthrene	0.37	0.039		mg/Kg-dry	1	11/15/2018
Phenol	ND	0.20		mg/Kg-dry	1	11/15/2018
Pyrene	1.1	0.039		mg/Kg-dry	1	11/15/2018
Pyridine	ND	0.80		mg/Kg-dry	1	11/15/2018
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	11/15/2018
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	11/15/2018
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	11/15/2018
<b>Metals by ICP/MS</b>		<b>SW6020A (SW3050B)</b>		Prep Date: 11/14/2018		Analyst: JG
Arsenic	9.6	1.1		mg/Kg-dry	10	11/15/2018
Barium	130	1.1		mg/Kg-dry	10	11/15/2018
Cadmium	0.79	0.54		mg/Kg-dry	10	11/15/2018
Chromium	18	1.1		mg/Kg-dry	10	11/15/2018
Lead	140	0.54		mg/Kg-dry	10	11/15/2018

**Qualifiers:**  
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 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-001

**Client Sample ID:** B-112B (1-3)  
**Collection Date:** 11/12/2018 12:50:00 PM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020A (SW3050B)</b>		Prep Date: 11/14/2018 Analyst: JG			
Selenium	ND	1.1		mg/Kg-dry	10	11/15/2018
Silver	ND	1.1		mg/Kg-dry	10	11/15/2018
<b>Mercury</b>	<b>SW7471B</b>		Prep Date: 11/15/2018 Analyst: LB			
Mercury	0.072	0.019		mg/Kg-dry	1	11/16/2018
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: 11/15/2018 Analyst: JTB			
pH	7.87			pH Units	1	11/16/2018
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: 11/15/2018 Analyst: RW			
Percent Moisture	16.3	0.2	*	wt%	1	11/16/2018

DRAFT

**Qualifiers:**

ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
HT - Sample received past holding time	E - Value above quantitation range
* - Non-accredited parameter	H - Holding time exceeded

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-002

**Client Sample ID:** B-112B (3-5)  
**Collection Date:** 11/12/2018 1:00:00 PM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C (SW3550B)</b>					Prep Date: 11/14/2018 Analyst: DM
Acenaphthene	ND	0.040		mg/Kg-dry	1	11/15/2018
Acenaphthylene	ND	0.040		mg/Kg-dry	1	11/15/2018
Aniline	ND	0.40		mg/Kg-dry	1	11/15/2018
Anthracene	ND	0.040		mg/Kg-dry	1	11/15/2018
Benz(a)anthracene	0.10	0.040		mg/Kg-dry	1	11/15/2018
Benzidine	ND	0.40		mg/Kg-dry	1	11/15/2018
Benzo(a)pyrene	0.10	0.040		mg/Kg-dry	1	11/15/2018
Benzo(b)fluoranthene	0.096	0.040		mg/Kg-dry	1	11/15/2018
Benzo(g,h,i)perylene	0.066	0.040		mg/Kg-dry	1	11/15/2018
Benzo(k)fluoranthene	0.070	0.040		mg/Kg-dry	1	11/15/2018
Benzoic acid	ND	1.0		mg/Kg-dry	1	11/15/2018
Benzyl alcohol	ND	0.21		mg/Kg-dry	1	11/15/2018
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	11/15/2018
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	11/15/2018
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg-dry	1	11/15/2018
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	11/15/2018
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	11/15/2018
Carbazole	ND	0.21		mg/Kg-dry	1	11/15/2018
4-Chloroaniline	ND	0.21		mg/Kg-dry	1	11/15/2018
4-Chloro-3-methylphenol	ND	0.40		mg/Kg-dry	1	11/15/2018
2-Chloronaphthalene	ND	0.21		mg/Kg-dry	1	11/15/2018
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	11/15/2018
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	11/15/2018
Chrysene	0.11	0.040		mg/Kg-dry	1	11/15/2018
Dibenz(a,h)anthracene	ND	0.040		mg/Kg-dry	1	11/15/2018
Dibenzofuran	ND	0.21		mg/Kg-dry	1	11/15/2018
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	11/15/2018
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	11/15/2018
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	11/15/2018
3,3'-Dichlorobenzidine	ND	0.21		mg/Kg-dry	1	11/15/2018
2,4-Dichlorophenol	ND	0.21		mg/Kg-dry	1	11/15/2018
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	11/15/2018
2,4-Dimethylphenol	ND	0.21		mg/Kg-dry	1	11/15/2018
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	11/15/2018
4,6-Dinitro-2-methylphenol	ND	0.40		mg/Kg-dry	1	11/15/2018
2,4-Dinitrophenol	ND	1.0		mg/Kg-dry	1	11/15/2018
2,4-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	11/15/2018
2,6-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	11/15/2018

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-002

**Client Sample ID:** B-112B (3-5)  
**Collection Date:** 11/12/2018 1:00:00 PM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>						
	<b>SW8270C (SW3550B)</b>					Prep Date: 11/14/2018 Analyst: DM
Di-n-butyl phthalate	ND	0.21		mg/Kg-dry	1	11/15/2018
Di-n-octyl phthalate	ND	0.21		mg/Kg-dry	1	11/15/2018
Fluoranthene	0.15	0.040		mg/Kg-dry	1	11/15/2018
Fluorene	ND	0.040		mg/Kg-dry	1	11/15/2018
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	11/15/2018
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	11/15/2018
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	11/15/2018
Hexachloroethane	ND	0.21		mg/Kg-dry	1	11/15/2018
Indeno(1,2,3-cd)pyrene	0.058	0.040		mg/Kg-dry	1	11/15/2018
Isophorone	ND	0.21		mg/Kg-dry	1	11/15/2018
2-Methylnaphthalene	ND	0.21		mg/Kg-dry	1	11/15/2018
2-Methylphenol	ND	0.21		mg/Kg-dry	1	11/15/2018
4-Methylphenol	ND	0.21		mg/Kg-dry	1	11/15/2018
Naphthalene	ND	0.040		mg/Kg-dry	1	11/15/2018
2-Nitroaniline	ND	0.21		mg/Kg-dry	1	11/15/2018
3-Nitroaniline	ND	0.21		mg/Kg-dry	1	11/15/2018
4-Nitroaniline	ND	0.21		mg/Kg-dry	1	11/15/2018
2-Nitrophenol	ND	0.21		mg/Kg-dry	1	11/15/2018
4-Nitrophenol	ND	0.40		mg/Kg-dry	1	11/15/2018
Nitrobenzene	ND	0.040		mg/Kg-dry	1	11/15/2018
N-Nitrosodi-n-propylamine	ND	0.040		mg/Kg-dry	1	11/15/2018
N-Nitrosodimethylamine	ND	0.21		mg/Kg-dry	1	11/15/2018
N-Nitrosodiphenylamine	ND	0.21		mg/Kg-dry	1	11/15/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.21		mg/Kg-dry	1	11/15/2018
Pentachlorophenol	ND	0.081		mg/Kg-dry	1	11/15/2018
Phenanthrene	0.067	0.040		mg/Kg-dry	1	11/15/2018
Phenol	ND	0.21		mg/Kg-dry	1	11/15/2018
Pyrene	0.16	0.040		mg/Kg-dry	1	11/15/2018
Pyridine	ND	0.81		mg/Kg-dry	1	11/15/2018
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	1	11/15/2018
2,4,5-Trichlorophenol	ND	0.21		mg/Kg-dry	1	11/15/2018
2,4,6-Trichlorophenol	ND	0.21		mg/Kg-dry	1	11/15/2018
<b>Metals by ICP/MS</b>						
	<b>SW6020A (SW3050B)</b>					Prep Date: 11/14/2018 Analyst: JG
Arsenic	10	1.0		mg/Kg-dry	10	11/15/2018
Barium	69	1.0		mg/Kg-dry	10	11/15/2018
Cadmium	ND	0.52		mg/Kg-dry	10	11/15/2018
Chromium	11	1.0		mg/Kg-dry	10	11/15/2018
Lead	99	0.52		mg/Kg-dry	10	11/15/2018

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

**Qualifiers:**

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded



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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-002

**Client Sample ID:** B-112B (3-5)  
**Collection Date:** 11/12/2018 1:00:00 PM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020A (SW3050B)</b>				Prep Date: 11/14/2018	Analyst: JG
Selenium	ND	1.0		mg/Kg-dry	10	11/15/2018
Silver	ND	1.0		mg/Kg-dry	10	11/15/2018
<b>Mercury</b>	<b>SW7471B</b>				Prep Date: 11/15/2018	Analyst: LB
Mercury	ND	0.021		mg/Kg-dry	1	11/16/2018
<b>pH (25 °C)</b>	<b>SW9045C</b>				Prep Date: 11/15/2018	Analyst: JTB
pH	7.71			pH Units	1	11/16/2018
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 11/15/2018	Analyst: RW
Percent Moisture	18.3	0.2	*	wt%	1	11/16/2018

DRAFT

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-003

**Client Sample ID:** B-108B (1-3)  
**Collection Date:** 11/12/2018 12:15:00 PM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: DM
Acenaphthene	ND	0.040		mg/Kg-dry	1	11/15/2018
Acenaphthylene	ND	0.040		mg/Kg-dry	1	11/15/2018
Aniline	ND	0.40		mg/Kg-dry	1	11/15/2018
Anthracene	0.12	0.040		mg/Kg-dry	1	11/15/2018
Benz(a)anthracene	0.54	0.040		mg/Kg-dry	1	11/15/2018
Benzidine	ND	0.40		mg/Kg-dry	1	11/15/2018
Benzo(a)pyrene	0.54	0.040		mg/Kg-dry	1	11/15/2018
Benzo(b)fluoranthene	0.37	0.040		mg/Kg-dry	1	11/15/2018
Benzo(g,h,i)perylene	0.33	0.040		mg/Kg-dry	1	11/15/2018
Benzo(k)fluoranthene	0.50	0.040		mg/Kg-dry	1	11/15/2018
Benzoic acid	ND	1.0		mg/Kg-dry	1	11/15/2018
Benzyl alcohol	ND	0.21		mg/Kg-dry	1	11/15/2018
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	11/15/2018
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	11/15/2018
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg-dry	1	11/15/2018
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	11/15/2018
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	11/15/2018
Carbazole	ND	0.21		mg/Kg-dry	1	11/15/2018
4-Chloroaniline	ND	0.21		mg/Kg-dry	1	11/15/2018
4-Chloro-3-methylphenol	ND	0.40		mg/Kg-dry	1	11/15/2018
2-Chloronaphthalene	ND	0.21		mg/Kg-dry	1	11/15/2018
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	11/15/2018
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	11/15/2018
Chrysene	0.59	0.040		mg/Kg-dry	1	11/15/2018
Dibenz(a,h)anthracene	0.17	0.040		mg/Kg-dry	1	11/15/2018
Dibenzofuran	ND	0.21		mg/Kg-dry	1	11/15/2018
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	11/15/2018
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	11/15/2018
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	11/15/2018
3,3'-Dichlorobenzidine	ND	0.21		mg/Kg-dry	1	11/15/2018
2,4-Dichlorophenol	ND	0.21		mg/Kg-dry	1	11/15/2018
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	11/15/2018
2,4-Dimethylphenol	ND	0.21		mg/Kg-dry	1	11/15/2018
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	11/15/2018
4,6-Dinitro-2-methylphenol	ND	0.40		mg/Kg-dry	1	11/15/2018
2,4-Dinitrophenol	ND	1.0		mg/Kg-dry	1	11/15/2018
2,4-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	11/15/2018
2,6-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	11/15/2018

**Qualifiers:**  
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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-003

**Client Sample ID:** B-108B (1-3)  
**Collection Date:** 11/12/2018 12:15:00 PM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>						
		<b>SW8270C (SW3550B)</b>			Prep Date: 11/14/2018	Analyst: DM
Di-n-butyl phthalate	ND	0.21		mg/Kg-dry	1	11/15/2018
Di-n-octyl phthalate	ND	0.21		mg/Kg-dry	1	11/15/2018
Fluoranthene	0.90	0.040		mg/Kg-dry	1	11/15/2018
Fluorene	ND	0.040		mg/Kg-dry	1	11/15/2018
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	11/15/2018
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	11/15/2018
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	11/15/2018
Hexachloroethane	ND	0.21		mg/Kg-dry	1	11/15/2018
Indeno(1,2,3-cd)pyrene	0.30	0.040		mg/Kg-dry	1	11/15/2018
Isophorone	ND	0.21		mg/Kg-dry	1	11/15/2018
2-Methylnaphthalene	ND	0.21		mg/Kg-dry	1	11/15/2018
2-Methylphenol	ND	0.21		mg/Kg-dry	1	11/15/2018
4-Methylphenol	ND	0.21		mg/Kg-dry	1	11/15/2018
Naphthalene	ND	0.040		mg/Kg-dry	1	11/15/2018
2-Nitroaniline	ND	0.21		mg/Kg-dry	1	11/15/2018
3-Nitroaniline	ND	0.21		mg/Kg-dry	1	11/15/2018
4-Nitroaniline	ND	0.21		mg/Kg-dry	1	11/15/2018
2-Nitrophenol	ND	0.21		mg/Kg-dry	1	11/15/2018
4-Nitrophenol	ND	0.40		mg/Kg-dry	1	11/15/2018
Nitrobenzene	ND	0.040		mg/Kg-dry	1	11/15/2018
N-Nitrosodi-n-propylamine	ND	0.040		mg/Kg-dry	1	11/15/2018
N-Nitrosodimethylamine	ND	0.21		mg/Kg-dry	1	11/15/2018
N-Nitrosodiphenylamine	ND	0.21		mg/Kg-dry	1	11/15/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.21		mg/Kg-dry	1	11/15/2018
Pentachlorophenol	ND	0.082		mg/Kg-dry	1	11/15/2018
Phenanthrene	0.48	0.040		mg/Kg-dry	1	11/15/2018
Phenol	ND	0.21		mg/Kg-dry	1	11/15/2018
Pyrene	0.97	0.040		mg/Kg-dry	1	11/15/2018
Pyridine	ND	0.82		mg/Kg-dry	1	11/15/2018
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	1	11/15/2018
2,4,5-Trichlorophenol	ND	0.21		mg/Kg-dry	1	11/15/2018
2,4,6-Trichlorophenol	ND	0.21		mg/Kg-dry	1	11/15/2018
<b>Metals by ICP/MS</b>						
		<b>SW6020A (SW3050B)</b>			Prep Date: 11/14/2018	Analyst: JG
Arsenic	8.9	1.1		mg/Kg-dry	10	11/15/2018
Barium	92	1.1		mg/Kg-dry	10	11/15/2018
Cadmium	ND	0.54		mg/Kg-dry	10	11/15/2018
Chromium	7.4	1.1		mg/Kg-dry	10	11/15/2018
Lead	120	0.54		mg/Kg-dry	10	11/15/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-003

**Client Sample ID:** B-108B (1-3)  
**Collection Date:** 11/12/2018 12:15:00 PM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020A (SW3050B)</b>				Prep Date: 11/14/2018	Analyst: JG
Selenium	ND	1.1		mg/Kg-dry	10	11/15/2018
Silver	ND	1.1		mg/Kg-dry	10	11/15/2018
<b>Mercury</b>	<b>SW7471B</b>				Prep Date: 11/15/2018	Analyst: LB
Mercury	ND	0.020		mg/Kg-dry	1	11/16/2018
<b>pH (25 °C)</b>	<b>SW9045C</b>				Prep Date: 11/15/2018	Analyst: JTB
pH	7.91			pH Units	1	11/16/2018
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 11/15/2018	Analyst: RW
Percent Moisture	20.4	0.2	*	wt%	1	11/16/2018

DRAFT

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 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-004

**Client Sample ID:** B-108B (3-5)  
**Collection Date:** 11/12/2018 12:20:00 PM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: DM
Acenaphthene	ND	0.043		mg/Kg-dry	1	11/15/2018
Acenaphthylene	ND	0.043		mg/Kg-dry	1	11/15/2018
Aniline	ND	0.45		mg/Kg-dry	1	11/15/2018
Anthracene	ND	0.043		mg/Kg-dry	1	11/15/2018
Benz(a)anthracene	ND	0.043		mg/Kg-dry	1	11/15/2018
Benzidine	ND	0.43		mg/Kg-dry	1	11/15/2018
Benzo(a)pyrene	ND	0.043		mg/Kg-dry	1	11/15/2018
Benzo(b)fluoranthene	ND	0.043		mg/Kg-dry	1	11/15/2018
Benzo(g,h,i)perylene	ND	0.043		mg/Kg-dry	1	11/15/2018
Benzo(k)fluoranthene	ND	0.043		mg/Kg-dry	1	11/15/2018
Benzoic acid	ND	1.1		mg/Kg-dry	1	11/15/2018
Benzyl alcohol	ND	0.23		mg/Kg-dry	1	11/15/2018
Bis(2-chloroethoxy)methane	ND	0.23		mg/Kg-dry	1	11/15/2018
Bis(2-chloroethyl)ether	ND	0.23		mg/Kg-dry	1	11/15/2018
Bis(2-ethylhexyl)phthalate	ND	1.1		mg/Kg-dry	1	11/15/2018
4-Bromophenyl phenyl ether	ND	0.23		mg/Kg-dry	1	11/15/2018
Butyl benzyl phthalate	ND	0.23		mg/Kg-dry	1	11/15/2018
Carbazole	ND	0.23		mg/Kg-dry	1	11/15/2018
4-Chloroaniline	ND	0.23		mg/Kg-dry	1	11/15/2018
4-Chloro-3-methylphenol	ND	0.43		mg/Kg-dry	1	11/15/2018
2-Chloronaphthalene	ND	0.23		mg/Kg-dry	1	11/15/2018
2-Chlorophenol	ND	0.23		mg/Kg-dry	1	11/15/2018
4-Chlorophenyl phenyl ether	ND	0.23		mg/Kg-dry	1	11/15/2018
Chrysene	ND	0.043		mg/Kg-dry	1	11/15/2018
Dibenz(a,h)anthracene	ND	0.043		mg/Kg-dry	1	11/15/2018
Dibenzofuran	ND	0.23		mg/Kg-dry	1	11/15/2018
1,2-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	11/15/2018
1,3-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	11/15/2018
1,4-Dichlorobenzene	ND	0.23		mg/Kg-dry	1	11/15/2018
3,3'-Dichlorobenzidine	ND	0.23		mg/Kg-dry	1	11/15/2018
2,4-Dichlorophenol	ND	0.23		mg/Kg-dry	1	11/15/2018
Diethyl phthalate	ND	0.23		mg/Kg-dry	1	11/15/2018
2,4-Dimethylphenol	ND	0.23		mg/Kg-dry	1	11/15/2018
Dimethyl phthalate	ND	0.23		mg/Kg-dry	1	11/15/2018
4,6-Dinitro-2-methylphenol	ND	0.43		mg/Kg-dry	1	11/15/2018
2,4-Dinitrophenol	ND	1.1		mg/Kg-dry	1	11/15/2018
2,4-Dinitrotoluene	ND	0.043		mg/Kg-dry	1	11/15/2018
2,6-Dinitrotoluene	ND	0.043		mg/Kg-dry	1	11/15/2018

**Qualifiers:**  
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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-004

**Client Sample ID:** B-108B (3-5)  
**Collection Date:** 11/12/2018 12:20:00 PM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>						
		<b>SW8270C (SW3550B)</b>			Prep Date: 11/14/2018	Analyst: DM
Di-n-butyl phthalate	ND	0.23		mg/Kg-dry	1	11/15/2018
Di-n-octyl phthalate	ND	0.23		mg/Kg-dry	1	11/15/2018
Fluoranthene	ND	0.043		mg/Kg-dry	1	11/15/2018
Fluorene	ND	0.043		mg/Kg-dry	1	11/15/2018
Hexachlorobenzene	ND	0.23		mg/Kg-dry	1	11/15/2018
Hexachlorobutadiene	ND	0.23		mg/Kg-dry	1	11/15/2018
Hexachlorocyclopentadiene	ND	0.23		mg/Kg-dry	1	11/15/2018
Hexachloroethane	ND	0.23		mg/Kg-dry	1	11/15/2018
Indeno(1,2,3-cd)pyrene	ND	0.043		mg/Kg-dry	1	11/15/2018
Isophorone	ND	0.23		mg/Kg-dry	1	11/15/2018
2-Methylnaphthalene	ND	0.23		mg/Kg-dry	1	11/15/2018
2-Methylphenol	ND	0.23		mg/Kg-dry	1	11/15/2018
4-Methylphenol	ND	0.23		mg/Kg-dry	1	11/15/2018
Naphthalene	ND	0.043		mg/Kg-dry	1	11/15/2018
2-Nitroaniline	ND	0.23		mg/Kg-dry	1	11/15/2018
3-Nitroaniline	ND	0.23		mg/Kg-dry	1	11/15/2018
4-Nitroaniline	ND	0.23		mg/Kg-dry	1	11/15/2018
2-Nitrophenol	ND	0.23		mg/Kg-dry	1	11/15/2018
4-Nitrophenol	ND	0.43		mg/Kg-dry	1	11/15/2018
Nitrobenzene	ND	0.043		mg/Kg-dry	1	11/15/2018
N-Nitrosodi-n-propylamine	ND	0.043		mg/Kg-dry	1	11/15/2018
N-Nitrosodimethylamine	ND	0.23		mg/Kg-dry	1	11/15/2018
N-Nitrosodiphenylamine	ND	0.23		mg/Kg-dry	1	11/15/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.23		mg/Kg-dry	1	11/15/2018
Pentachlorophenol	ND	0.089		mg/Kg-dry	1	11/15/2018
Phenanthrene	ND	0.043		mg/Kg-dry	1	11/15/2018
Phenol	ND	0.23		mg/Kg-dry	1	11/15/2018
Pyrene	ND	0.043		mg/Kg-dry	1	11/15/2018
Pyridine	ND	0.89		mg/Kg-dry	1	11/15/2018
1,2,4-Trichlorobenzene	ND	0.23		mg/Kg-dry	1	11/15/2018
2,4,5-Trichlorophenol	ND	0.23		mg/Kg-dry	1	11/15/2018
2,4,6-Trichlorophenol	ND	0.23		mg/Kg-dry	1	11/15/2018
<b>Metals by ICP/MS</b>						
		<b>SW6020A (SW3050B)</b>			Prep Date: 11/14/2018	Analyst: JG
Arsenic	6.6	1.2		mg/Kg-dry	10	11/15/2018
Barium	86	1.2		mg/Kg-dry	10	11/15/2018
Cadmium	ND	0.60		mg/Kg-dry	10	11/15/2018
Chromium	17	1.2		mg/Kg-dry	10	11/15/2018
Lead	12	0.60		mg/Kg-dry	10	11/15/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-004

**Client Sample ID:** B-108B (3-5)  
**Collection Date:** 11/12/2018 12:20:00 PM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020A (SW3050B)</b>				Prep Date: 11/14/2018	Analyst: JG
Selenium	ND	1.2		mg/Kg-dry	10	11/15/2018
Silver	ND	1.2		mg/Kg-dry	10	11/15/2018
<b>Mercury</b>	<b>SW7471B</b>				Prep Date: 11/15/2018	Analyst: LB
Mercury	ND	0.023		mg/Kg-dry	1	11/16/2018
<b>pH (25 °C)</b>	<b>SW9045C</b>				Prep Date: 11/15/2018	Analyst: JTB
pH	7.92			pH Units	1	11/16/2018
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 11/15/2018	Analyst: RW
Percent Moisture	26.0	0.2	*	wt%	1	11/16/2018

DRAFT

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-005

**Client Sample ID:** B-101B (1-3)  
**Collection Date:** 11/12/2018 11:55:00 PM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: DM
Acenaphthene	0.072	0.039		mg/Kg-dry	1	11/15/2018
Acenaphthylene	0.15	0.039		mg/Kg-dry	1	11/15/2018
Aniline	ND	0.39		mg/Kg-dry	1	11/15/2018
Anthracene	0.45	0.039		mg/Kg-dry	1	11/15/2018
Benz(a)anthracene	2.1	0.039		mg/Kg-dry	1	11/15/2018
Benzidine	ND	0.39		mg/Kg-dry	1	11/15/2018
Benzo(a)pyrene	2.2	0.039		mg/Kg-dry	1	11/15/2018
Benzo(b)fluoranthene	1.8	0.039		mg/Kg-dry	1	11/15/2018
Benzo(g,h,i)perylene	1.3	0.039		mg/Kg-dry	1	11/15/2018
Benzo(k)fluoranthene	1.7	0.039		mg/Kg-dry	1	11/15/2018
Benzoic acid	ND	0.98		mg/Kg-dry	1	11/15/2018
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	11/15/2018
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	11/15/2018
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	11/15/2018
Bis(2-ethylhexyl)phthalate	ND	0.98		mg/Kg-dry	1	11/15/2018
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	11/15/2018
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	11/15/2018
Carbazole	ND	0.20		mg/Kg-dry	1	11/15/2018
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	11/15/2018
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	11/15/2018
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	11/15/2018
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	11/15/2018
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	11/15/2018
Chrysene	2.2	0.039		mg/Kg-dry	1	11/15/2018
Dibenz(a,h)anthracene	0.67	0.039		mg/Kg-dry	1	11/15/2018
Dibenzofuran	ND	0.20		mg/Kg-dry	1	11/15/2018
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/15/2018
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/15/2018
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/15/2018
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	11/15/2018
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	11/15/2018
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	11/15/2018
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	11/15/2018
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	11/15/2018
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	11/15/2018
2,4-Dinitrophenol	ND	0.98		mg/Kg-dry	1	11/15/2018
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	11/15/2018
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	11/15/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-005

**Client Sample ID:** B-101B (1-3)  
**Collection Date:** 11/12/2018 11:55:00 PM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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**Semivolatile Organic Compounds by GC/MS SW8270C (SW3550B) Prep Date: 11/14/2018 Analyst: DM**

Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	11/15/2018
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	11/15/2018
Fluoranthene	3.4	0.039		mg/Kg-dry	1	11/15/2018
Fluorene	0.14	0.039		mg/Kg-dry	1	11/15/2018
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	11/15/2018
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	11/15/2018
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	11/15/2018
Hexachloroethane	ND	0.20		mg/Kg-dry	1	11/15/2018
Indeno(1,2,3-cd)pyrene	1.1	0.039		mg/Kg-dry	1	11/15/2018
Isophorone	ND	0.20		mg/Kg-dry	1	11/15/2018
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	11/15/2018
2-Methylphenol	ND	0.20		mg/Kg-dry	1	11/15/2018
4-Methylphenol	ND	0.20		mg/Kg-dry	1	11/15/2018
Naphthalene	ND	0.039		mg/Kg-dry	1	11/15/2018
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/15/2018
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/15/2018
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/15/2018
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	11/15/2018
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	11/15/2018
Nitrobenzene	ND	0.039		mg/Kg-dry	1	11/15/2018
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	11/15/2018
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	11/15/2018
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	11/15/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	11/15/2018
Pentachlorophenol	ND	0.079		mg/Kg-dry	1	11/15/2018
Phenanthrene	1.8	0.039		mg/Kg-dry	1	11/15/2018
Phenol	ND	0.20		mg/Kg-dry	1	11/15/2018
Pyrene	3.6	0.039		mg/Kg-dry	1	11/15/2018
Pyridine	ND	0.79		mg/Kg-dry	1	11/15/2018
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	11/15/2018
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	11/15/2018
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	11/15/2018

**Metals by ICP/MS SW6020A (SW3050B) Prep Date: 11/14/2018 Analyst: JG**

Aluminum	10000	20		mg/Kg-dry	10	11/15/2018
Antimony	2.0	2.0		mg/Kg-dry	10	11/15/2018
Arsenic	17	0.98		mg/Kg-dry	10	11/15/2018
Barium	170	0.98		mg/Kg-dry	10	11/15/2018
Beryllium	1.4	0.49		mg/Kg-dry	10	11/15/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-005

**Client Sample ID:** B-101B (1-3)  
**Collection Date:** 11/12/2018 11:55:00 PM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>						
	<b>SW6020A (SW3050B)</b>		Prep Date: 11/14/2018 Analyst: JG			
Cadmium	1.8	0.49		mg/Kg-dry	10	11/15/2018
Calcium	20000	59		mg/Kg-dry	10	11/15/2018
Chromium	17	0.98		mg/Kg-dry	10	11/15/2018
Cobalt	12	0.98		mg/Kg-dry	10	11/15/2018
Copper	55	2.5		mg/Kg-dry	10	11/15/2018
Iron	120000	290		mg/Kg-dry	100	11/16/2018
Lead	430	0.49		mg/Kg-dry	10	11/15/2018
Magnesium	5500	29		mg/Kg-dry	10	11/15/2018
Manganese	2300	0.98		mg/Kg-dry	10	11/15/2018
Nickel	18	0.98		mg/Kg-dry	10	11/15/2018
Potassium	1300	29		mg/Kg-dry	10	11/15/2018
Selenium	ND	0.98		mg/Kg-dry	10	11/15/2018
Silver	1.9	0.98		mg/Kg-dry	10	11/15/2018
Sodium	390	59		mg/Kg-dry	10	11/15/2018
Thallium	ND	0.98		mg/Kg-dry	10	11/15/2018
Vanadium	31	0.98		mg/Kg-dry	10	11/15/2018
Zinc	720	4.9		mg/Kg-dry	10	11/15/2018
<b>SPLP Metals by ICP/MS</b>						
	<b>SW1312/6020A (SW3005A)</b>		Prep Date: 11/24/2018 Analyst: JG			
Aluminum	8.1	0.040		mg/L	2	11/26/2018
Cobalt	ND	0.0040		mg/L	2	11/26/2018
Iron	7.5	0.10		mg/L	2	11/26/2018
Manganese	0.029	0.0040		mg/L	2	11/26/2018
<b>TCLP Metals by ICP/MS</b>						
	<b>SW1311/6020A (SW3005A)</b>		Prep Date: 11/24/2018 Analyst: JG			
Aluminum	0.14	0.10		mg/L	5	11/26/2018
Iron	ND	0.25		mg/L	5	11/26/2018
<b>Mercury</b>						
	<b>SW7471B</b>		Prep Date: 11/15/2018 Analyst: LB			
Mercury	0.034	0.021		mg/Kg-dry	1	11/16/2018
<b>Cyanide, Total</b>						
	<b>SW9012A</b>		Prep Date: 11/16/2018 Analyst: JTB			
Cyanide	0.37	0.29		mg/Kg-dry	1	11/16/2018
<b>pH (25 °C)</b>						
	<b>SW9045C</b>		Prep Date: 11/15/2018 Analyst: RW			
pH	7.48			pH Units	1	11/16/2018
<b>Percent Moisture</b>						
	<b>D2974</b>		Prep Date: 11/15/2018 Analyst: RW			
Percent Moisture	15.2	0.2	*	wt%	1	11/16/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-006

**Client Sample ID:** B-101B (3-5)  
**Collection Date:** 11/12/2018 12:03:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C (SW3550B)</b>					Prep Date: 11/14/2018 Analyst: DM
Acenaphthene	ND	0.040		mg/Kg-dry	1	11/15/2018
Acenaphthylene	ND	0.040		mg/Kg-dry	1	11/15/2018
Aniline	ND	0.40		mg/Kg-dry	1	11/15/2018
Anthracene	ND	0.040		mg/Kg-dry	1	11/15/2018
Benz(a)anthracene	ND	0.040		mg/Kg-dry	1	11/15/2018
Benzidine	ND	0.40		mg/Kg-dry	1	11/15/2018
Benzo(a)pyrene	ND	0.040		mg/Kg-dry	1	11/15/2018
Benzo(b)fluoranthene	ND	0.040		mg/Kg-dry	1	11/15/2018
Benzo(g,h,i)perylene	ND	0.040		mg/Kg-dry	1	11/15/2018
Benzo(k)fluoranthene	ND	0.040		mg/Kg-dry	1	11/15/2018
Benzoic acid	ND	1.0		mg/Kg-dry	1	11/15/2018
Benzyl alcohol	ND	0.21		mg/Kg-dry	1	11/15/2018
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	11/15/2018
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	11/15/2018
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg-dry	1	11/15/2018
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	11/15/2018
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	11/15/2018
Carbazole	ND	0.21		mg/Kg-dry	1	11/15/2018
4-Chloroaniline	ND	0.21		mg/Kg-dry	1	11/15/2018
4-Chloro-3-methylphenol	ND	0.40		mg/Kg-dry	1	11/15/2018
2-Chloronaphthalene	ND	0.21		mg/Kg-dry	1	11/15/2018
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	11/15/2018
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	11/15/2018
Chrysene	ND	0.040		mg/Kg-dry	1	11/15/2018
Dibenz(a,h)anthracene	ND	0.040		mg/Kg-dry	1	11/15/2018
Dibenzofuran	ND	0.21		mg/Kg-dry	1	11/15/2018
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	11/15/2018
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	11/15/2018
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	11/15/2018
3,3'-Dichlorobenzidine	ND	0.21		mg/Kg-dry	1	11/15/2018
2,4-Dichlorophenol	ND	0.21		mg/Kg-dry	1	11/15/2018
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	11/15/2018
2,4-Dimethylphenol	ND	0.21		mg/Kg-dry	1	11/15/2018
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	11/15/2018
4,6-Dinitro-2-methylphenol	ND	0.40		mg/Kg-dry	1	11/15/2018
2,4-Dinitrophenol	ND	1.0		mg/Kg-dry	1	11/15/2018
2,4-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	11/15/2018
2,6-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	11/15/2018

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-006

**Client Sample ID:** B-101B (3-5)  
**Collection Date:** 11/12/2018 12:03:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: DM
Di-n-butyl phthalate	ND	0.21		mg/Kg-dry	1	11/15/2018
Di-n-octyl phthalate	ND	0.21		mg/Kg-dry	1	11/15/2018
Fluoranthene	ND	0.040		mg/Kg-dry	1	11/15/2018
Fluorene	ND	0.040		mg/Kg-dry	1	11/15/2018
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	11/15/2018
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	11/15/2018
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	11/15/2018
Hexachloroethane	ND	0.21		mg/Kg-dry	1	11/15/2018
Indeno(1,2,3-cd)pyrene	ND	0.040		mg/Kg-dry	1	11/15/2018
Isophorone	ND	0.21		mg/Kg-dry	1	11/15/2018
2-Methylnaphthalene	ND	0.21		mg/Kg-dry	1	11/15/2018
2-Methylphenol	ND	0.21		mg/Kg-dry	1	11/15/2018
4-Methylphenol	ND	0.21		mg/Kg-dry	1	11/15/2018
Naphthalene	ND	0.040		mg/Kg-dry	1	11/15/2018
2-Nitroaniline	ND	0.21		mg/Kg-dry	1	11/15/2018
3-Nitroaniline	ND	0.21		mg/Kg-dry	1	11/15/2018
4-Nitroaniline	ND	0.21		mg/Kg-dry	1	11/15/2018
2-Nitrophenol	ND	0.21		mg/Kg-dry	1	11/15/2018
4-Nitrophenol	ND	0.40		mg/Kg-dry	1	11/15/2018
Nitrobenzene	ND	0.040		mg/Kg-dry	1	11/15/2018
N-Nitrosodi-n-propylamine	ND	0.040		mg/Kg-dry	1	11/15/2018
N-Nitrosodimethylamine	ND	0.21		mg/Kg-dry	1	11/15/2018
N-Nitrosodiphenylamine	ND	0.21		mg/Kg-dry	1	11/15/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.21		mg/Kg-dry	1	11/15/2018
Pentachlorophenol	ND	0.081		mg/Kg-dry	1	11/15/2018
Phenanthrene	ND	0.040		mg/Kg-dry	1	11/15/2018
Phenol	ND	0.21		mg/Kg-dry	1	11/15/2018
Pyrene	ND	0.040		mg/Kg-dry	1	11/15/2018
Pyridine	ND	0.81		mg/Kg-dry	1	11/15/2018
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	1	11/15/2018
2,4,5-Trichlorophenol	ND	0.21		mg/Kg-dry	1	11/15/2018
2,4,6-Trichlorophenol	ND	0.21		mg/Kg-dry	1	11/15/2018
<b>Metals by ICP/MS</b>		<b>SW6020A (SW3050B)</b>		Prep Date: 11/14/2018		Analyst: JG
Aluminum	7300	22		mg/Kg-dry	10	11/15/2018
Antimony	ND	2.2		mg/Kg-dry	10	11/15/2018
Arsenic	6.6	1.1		mg/Kg-dry	10	11/15/2018
Barium	47	1.1		mg/Kg-dry	10	11/15/2018
Beryllium	ND	0.54		mg/Kg-dry	10	11/15/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-006

**Client Sample ID:** B-101B (3-5)  
**Collection Date:** 11/12/2018 12:03:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020A (SW3050B)</b>				Prep Date: 11/14/2018	Analyst: JG
Cadmium	ND	0.54		mg/Kg-dry	10	11/15/2018
Calcium	2400	65		mg/Kg-dry	10	11/15/2018
Chromium	12	1.1		mg/Kg-dry	10	11/15/2018
Cobalt	4.2	1.1		mg/Kg-dry	10	11/15/2018
Copper	9.6	2.7		mg/Kg-dry	10	11/15/2018
Iron	16000	32		mg/Kg-dry	10	11/15/2018
Lead	26	0.54		mg/Kg-dry	10	11/15/2018
Magnesium	1500	32		mg/Kg-dry	10	11/15/2018
Manganese	120	1.1		mg/Kg-dry	10	11/15/2018
Nickel	10	1.1		mg/Kg-dry	10	11/15/2018
Potassium	480	32		mg/Kg-dry	10	11/15/2018
Selenium	ND	1.1		mg/Kg-dry	10	11/15/2018
Silver	ND	1.1		mg/Kg-dry	10	11/15/2018
Sodium	ND	65		mg/Kg-dry	10	11/15/2018
Thallium	ND	1.1		mg/Kg-dry	10	11/15/2018
Vanadium	30	1.1		mg/Kg-dry	10	11/15/2018
Zinc	45	5.4		mg/Kg-dry	10	11/15/2018
<b>Mercury</b>	<b>SW7471B</b>				Prep Date: 11/15/2018	Analyst: LB
Mercury	ND	0.023		mg/Kg-dry	1	11/16/2018
<b>Cyanide, Total</b>	<b>SW9012A</b>				Prep Date: 11/16/2018	Analyst: JTB
Cyanide	ND	0.31		mg/Kg-dry	1	11/16/2018
<b>pH (25 °C)</b>	<b>SW9045C</b>				Prep Date: 11/15/2018	Analyst: JTB
pH	7.32			pH Units	1	11/16/2018
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 11/15/2018	Analyst: RW
Percent Moisture	18.5	0.2	*	wt%	1	11/16/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

Client: Carnow, Conibear, & Associates  
 Work Order: 18110408 Revision 4  
 Project: Firestation 115 B, 119th & Morgan St.  
 Lab ID: 18110408-007

Client Sample ID: B-102B (1-3)  
 Collection Date: 11/12/2018 11:25:00 PM  
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: 11/13/2018		Analyst: MJK
Acetone	ND	0.096		mg/Kg-dry	1	11/13/2018
Benzene	ND	0.0064		mg/Kg-dry	1	11/13/2018
Bromodichloromethane	ND	0.0064		mg/Kg-dry	1	11/13/2018
Bromoform	ND	0.0064		mg/Kg-dry	1	11/13/2018
Bromomethane	ND	0.013		mg/Kg-dry	1	11/13/2018
2-Butanone	ND	0.096		mg/Kg-dry	1	11/13/2018
Carbon disulfide	ND	0.064		mg/Kg-dry	1	11/13/2018
Carbon tetrachloride	ND	0.0064		mg/Kg-dry	1	11/13/2018
Chlorobenzene	ND	0.0064		mg/Kg-dry	1	11/13/2018
Chloroethane	ND	0.013		mg/Kg-dry	1	11/13/2018
Chloroform	ND	0.0064		mg/Kg-dry	1	11/13/2018
Chloromethane	ND	0.013		mg/Kg-dry	1	11/13/2018
Dibromochloromethane	ND	0.0064		mg/Kg-dry	1	11/13/2018
1,1-Dichloroethane	ND	0.0064		mg/Kg-dry	1	11/13/2018
1,2-Dichloroethane	ND	0.0064		mg/Kg-dry	1	11/13/2018
1,1-Dichloroethene	ND	0.0064		mg/Kg-dry	1	11/13/2018
cis-1,2-Dichloroethene	ND	0.0064		mg/Kg-dry	1	11/13/2018
trans-1,2-Dichloroethene	ND	0.0064		mg/Kg-dry	1	11/13/2018
1,2-Dichloropropane	ND	0.0064		mg/Kg-dry	1	11/13/2018
cis-1,3-Dichloropropene	ND	0.0026		mg/Kg-dry	1	11/13/2018
trans-1,3-Dichloropropene	ND	0.0026		mg/Kg-dry	1	11/13/2018
Ethylbenzene	ND	0.0064		mg/Kg-dry	1	11/13/2018
2-Hexanone	ND	0.026		mg/Kg-dry	1	11/13/2018
4-Methyl-2-pentanone	ND	0.026		mg/Kg-dry	1	11/13/2018
Methylene chloride	ND	0.013		mg/Kg-dry	1	11/13/2018
Methyl tert-butyl ether	ND	0.0064		mg/Kg-dry	1	11/13/2018
Styrene	ND	0.0064		mg/Kg-dry	1	11/13/2018
1,1,2,2-Tetrachloroethane	ND	0.0064		mg/Kg-dry	1	11/13/2018
Tetrachloroethene	ND	0.0064		mg/Kg-dry	1	11/13/2018
Toluene	ND	0.0064		mg/Kg-dry	1	11/13/2018
1,1,1-Trichloroethane	ND	0.0064		mg/Kg-dry	1	11/13/2018
1,1,2-Trichloroethane	ND	0.0064		mg/Kg-dry	1	11/13/2018
Trichloroethene	ND	0.0064		mg/Kg-dry	1	11/13/2018
Vinyl chloride	ND	0.0064		mg/Kg-dry	1	11/13/2018
Xylenes, Total	ND	0.019		mg/Kg-dry	1	11/13/2018
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: DM
Acenaphthene	ND	0.040		mg/Kg-dry	1	11/15/2018
Acenaphthylene	0.049	0.040		mg/Kg-dry	1	11/15/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-007

**Client Sample ID:** B-102B (1-3)  
**Collection Date:** 11/12/2018 11:25:00 PM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: DM
Aniline	ND	0.40		mg/Kg-dry	1	11/15/2018
Anthracene	0.073	0.040		mg/Kg-dry	1	11/15/2018
Benz(a)anthracene	0.44	0.040		mg/Kg-dry	1	11/15/2018
Benzidine	ND	0.40		mg/Kg-dry	1	11/15/2018
Benzo(a)pyrene	0.49	0.040		mg/Kg-dry	1	11/15/2018
Benzo(b)fluoranthene	0.47	0.040		mg/Kg-dry	1	11/15/2018
Benzo(g,h,i)perylene	0.34	0.040		mg/Kg-dry	1	11/15/2018
Benzo(k)fluoranthene	0.45	0.040		mg/Kg-dry	1	11/15/2018
Benzoic acid	ND	1.0		mg/Kg-dry	1	11/15/2018
Benzyl alcohol	ND	0.21		mg/Kg-dry	1	11/15/2018
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	11/15/2018
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	11/15/2018
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg-dry	1	11/15/2018
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	11/15/2018
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	11/15/2018
Carbazole	ND	0.21		mg/Kg-dry	1	11/15/2018
4-Chloroaniline	ND	0.21		mg/Kg-dry	1	11/15/2018
4-Chloro-3-methylphenol	ND	0.40		mg/Kg-dry	1	11/15/2018
2-Chloronaphthalene	ND	0.21		mg/Kg-dry	1	11/15/2018
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	11/15/2018
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	11/15/2018
Chrysene	0.50	0.040		mg/Kg-dry	1	11/15/2018
Dibenz(a,h)anthracene	0.16	0.040		mg/Kg-dry	1	11/15/2018
Dibenzofuran	ND	0.21		mg/Kg-dry	1	11/15/2018
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	11/15/2018
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	11/15/2018
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	11/15/2018
3,3'-Dichlorobenzidine	ND	0.21		mg/Kg-dry	1	11/15/2018
2,4-Dichlorophenol	ND	0.21		mg/Kg-dry	1	11/15/2018
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	11/15/2018
2,4-Dimethylphenol	ND	0.21		mg/Kg-dry	1	11/15/2018
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	11/15/2018
4,6-Dinitro-2-methylphenol	ND	0.40		mg/Kg-dry	1	11/15/2018
2,4-Dinitrophenol	ND	1.0		mg/Kg-dry	1	11/15/2018
2,4-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	11/15/2018
2,6-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	11/15/2018
Di-n-butyl phthalate	ND	0.21		mg/Kg-dry	1	11/15/2018
Di-n-octyl phthalate	ND	0.21		mg/Kg-dry	1	11/15/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-007

**Client Sample ID:** B-102B (1-3)  
**Collection Date:** 11/12/2018 11:25:00 PM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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**Semivolatile Organic Compounds by GC/MS**      **SW8270C (SW3550B)**      Prep Date: 11/14/2018      Analyst: DM

Fluoranthene	0.81	0.040		mg/Kg-dry	1	11/15/2018
Fluorene	ND	0.040		mg/Kg-dry	1	11/15/2018
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	11/15/2018
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	11/15/2018
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	11/15/2018
Hexachloroethane	ND	0.21		mg/Kg-dry	1	11/15/2018
Indeno(1,2,3-cd)pyrene	0.31	0.040		mg/Kg-dry	1	11/15/2018
Isophorone	ND	0.21		mg/Kg-dry	1	11/15/2018
2-Methylnaphthalene	ND	0.21		mg/Kg-dry	1	11/15/2018
2-Methylphenol	ND	0.21		mg/Kg-dry	1	11/15/2018
4-Methylphenol	ND	0.21		mg/Kg-dry	1	11/15/2018
Naphthalene	ND	0.040		mg/Kg-dry	1	11/15/2018
2-Nitroaniline	ND	0.21		mg/Kg-dry	1	11/15/2018
3-Nitroaniline	ND	0.21		mg/Kg-dry	1	11/15/2018
4-Nitroaniline	ND	0.21		mg/Kg-dry	1	11/15/2018
2-Nitrophenol	ND	0.21		mg/Kg-dry	1	11/15/2018
4-Nitrophenol	ND	0.40		mg/Kg-dry	1	11/15/2018
Nitrobenzene	ND	0.040		mg/Kg-dry	1	11/15/2018
N-Nitrosodi-n-propylamine	ND	0.040		mg/Kg-dry	1	11/15/2018
N-Nitrosodimethylamine	ND	0.21		mg/Kg-dry	1	11/15/2018
N-Nitrosodiphenylamine	ND	0.040		mg/Kg-dry	1	11/15/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.21		mg/Kg-dry	1	11/15/2018
Pentachlorophenol	ND	0.040		mg/Kg-dry	1	11/15/2018
Phenanthrene	0.29	0.040		mg/Kg-dry	1	11/15/2018
Phenol	ND	0.21		mg/Kg-dry	1	11/15/2018
Pyrene	0.79	0.040		mg/Kg-dry	1	11/15/2018
Pyridine	ND	0.81		mg/Kg-dry	1	11/15/2018
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	1	11/15/2018
2,4,5-Trichlorophenol	ND	0.21		mg/Kg-dry	1	11/15/2018
2,4,6-Trichlorophenol	ND	0.21		mg/Kg-dry	1	11/15/2018

**PCBs**      **SW8082A (SW3550B)**      Prep Date: 11/14/2018      Analyst: EN

Aroclor 1016	ND	0.10		mg/Kg-dry	1	11/14/2018
Aroclor 1221	ND	0.10		mg/Kg-dry	1	11/14/2018
Aroclor 1232	ND	0.10		mg/Kg-dry	1	11/14/2018
Aroclor 1242	ND	0.10		mg/Kg-dry	1	11/14/2018
Aroclor 1248	ND	0.10		mg/Kg-dry	1	11/14/2018
Aroclor 1254	ND	0.10		mg/Kg-dry	1	11/14/2018
Aroclor 1260	ND	0.10		mg/Kg-dry	1	11/14/2018

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-007

**Client Sample ID:** B-102B (1-3)  
**Collection Date:** 11/12/2018 11:25:00 PM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Pesticides</b>		<b>SW8081B (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: EN
4,4'-DDD	ND	0.0020		mg/Kg-dry	1	11/14/2018
4,4'-DDE	ND	0.0020		mg/Kg-dry	1	11/14/2018
4,4'-DDT	ND	0.0020		mg/Kg-dry	1	11/14/2018
Aldrin	ND	0.0020		mg/Kg-dry	1	11/14/2018
alpha-BHC	ND	0.0020		mg/Kg-dry	1	11/14/2018
alpha-Chlordane	ND	0.0020		mg/Kg-dry	1	11/14/2018
beta-BHC	ND	0.0020		mg/Kg-dry	1	11/14/2018
Chlordane	ND	0.020		mg/Kg-dry	1	11/14/2018
delta-BHC	ND	0.0020		mg/Kg-dry	1	11/14/2018
Dieldrin	ND	0.0020		mg/Kg-dry	1	11/14/2018
Endosulfan I	ND	0.0020		mg/Kg-dry	1	11/14/2018
Endosulfan II	ND	0.0020		mg/Kg-dry	1	11/14/2018
Endosulfan sulfate	ND	0.0020		mg/Kg-dry	1	11/14/2018
Endrin	ND	0.0020		mg/Kg-dry	1	11/14/2018
Endrin aldehyde	ND	0.0020		mg/Kg-dry	1	11/14/2018
Endrin ketone	ND	0.0020		mg/Kg-dry	1	11/14/2018
gamma-BHC	ND	0.0020		mg/Kg-dry	1	11/14/2018
gamma-Chlordane	ND	0.0020		mg/Kg-dry	1	11/14/2018
Heptachlor	ND	0.0020		mg/Kg-dry	1	11/14/2018
Heptachlor epoxide	ND	0.0020		mg/Kg-dry	1	11/14/2018
Methoxychlor	ND	0.0020		mg/Kg-dry	1	11/14/2018
Toxaphene	ND	0.041		mg/Kg-dry	1	11/14/2018
<b>Total Petroleum Hydrocarbons</b>		<b>SW8015M (SW3580A)</b>		Prep Date: 11/13/2018		Analyst: GVC
TPH (GRO)	ND	24		mg/Kg-dry	1	11/14/2018
TPH (DRO)	92	24		mg/Kg-dry	1	11/14/2018
TPH (ERO)	180	24	*	mg/Kg-dry	1	11/14/2018
<b>Metals by ICP/MS</b>		<b>SW6020A (SW3050B)</b>		Prep Date: 11/14/2018		Analyst: JG
Aluminum	8800	23		mg/Kg-dry	10	11/15/2018
Antimony	ND	2.3		mg/Kg-dry	10	11/15/2018
Arsenic	15	1.1		mg/Kg-dry	10	11/15/2018
Barium	96	1.1		mg/Kg-dry	10	11/15/2018
Beryllium	1.2	0.57		mg/Kg-dry	10	11/15/2018
Cadmium	2.0	0.57		mg/Kg-dry	10	11/15/2018
Calcium	62000	68		mg/Kg-dry	10	11/15/2018
Chromium	14	1.1		mg/Kg-dry	10	11/15/2018
Cobalt	11	1.1		mg/Kg-dry	10	11/15/2018
Copper	41	2.8		mg/Kg-dry	10	11/15/2018

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**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-007

**Client Sample ID:** B-102B (1-3)  
**Collection Date:** 11/12/2018 11:25:00 PM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>						
	<b>SW6020A (SW3050B)</b>			Prep Date: 11/14/2018 Analyst: JG		
Iron	76000	34		mg/Kg-dry	10	11/15/2018
Lead	420	0.57		mg/Kg-dry	10	11/15/2018
Magnesium	30000	34		mg/Kg-dry	10	11/15/2018
Manganese	1300	1.1		mg/Kg-dry	10	11/15/2018
Nickel	22	1.1		mg/Kg-dry	10	11/15/2018
Potassium	1300	34		mg/Kg-dry	10	11/15/2018
Selenium	ND	1.1		mg/Kg-dry	10	11/15/2018
Silver	1.6	1.1		mg/Kg-dry	10	11/15/2018
Sodium	200	68		mg/Kg-dry	10	11/15/2018
Thallium	ND	1.1		mg/Kg-dry	10	11/15/2018
Vanadium	23	1.1		mg/Kg-dry	10	11/15/2018
Zinc	600	5.7		mg/Kg-dry	10	11/15/2018
<b>Mercury</b>						
	<b>SW7471B</b>			Prep Date: 11/15/2018 Analyst: LB		
Mercury	0.044	0.020		mg/Kg-dry	1	11/16/2018
<b>Cyanide, Total</b>						
	<b>SW9012A</b>			Prep Date: 11/16/2018 Analyst: JTB		
Cyanide	0.41	0.31		mg/Kg-dry	1	11/16/2018
<b>pH (25 °C)</b>						
	<b>SW9045C</b>			Prep Date: 11/15/2018 Analyst: JTB		
pH	8.07			pH Units	1	11/16/2018
<b>Percent Moisture</b>						
	<b>D2974</b>			Prep Date: 11/15/2018 Analyst: RW		
Percent Moisture	20.2	0.2	*	wt%	1	11/16/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-008

**Client Sample ID:** B-102B (3-5)  
**Collection Date:** 11/12/2018 11:35:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: 11/13/2018		Analyst: MJK
Acetone	ND	0.13		mg/Kg-dry	1	11/13/2018
Benzene	ND	0.0083		mg/Kg-dry	1	11/13/2018
Bromodichloromethane	ND	0.0083		mg/Kg-dry	1	11/13/2018
Bromoform	ND	0.0083		mg/Kg-dry	1	11/13/2018
Bromomethane	ND	0.016		mg/Kg-dry	1	11/13/2018
2-Butanone	ND	0.13		mg/Kg-dry	1	11/13/2018
Carbon disulfide	ND	0.083		mg/Kg-dry	1	11/13/2018
Carbon tetrachloride	ND	0.0083		mg/Kg-dry	1	11/13/2018
Chlorobenzene	ND	0.0083		mg/Kg-dry	1	11/13/2018
Chloroethane	ND	0.016		mg/Kg-dry	1	11/13/2018
Chloroform	ND	0.0083		mg/Kg-dry	1	11/13/2018
Chloromethane	ND	0.016		mg/Kg-dry	1	11/13/2018
Dibromochloromethane	ND	0.0083		mg/Kg-dry	1	11/13/2018
1,1-Dichloroethane	ND	0.0083		mg/Kg-dry	1	11/13/2018
1,2-Dichloroethane	ND	0.0083		mg/Kg-dry	1	11/13/2018
1,1-Dichloroethene	ND	0.0083		mg/Kg-dry	1	11/13/2018
cis-1,2-Dichloroethene	ND	0.0083		mg/Kg-dry	1	11/13/2018
trans-1,2-Dichloroethene	ND	0.0083		mg/Kg-dry	1	11/13/2018
1,2-Dichloropropane	ND	0.0083		mg/Kg-dry	1	11/13/2018
cis-1,3-Dichloropropene	ND	0.0034		mg/Kg-dry	1	11/13/2018
trans-1,3-Dichloropropene	ND	0.0034		mg/Kg-dry	1	11/13/2018
Ethylbenzene	ND	0.0083		mg/Kg-dry	1	11/13/2018
2-Hexanone	ND	0.034		mg/Kg-dry	1	11/13/2018
4-Methyl-2-pentanone	ND	0.034		mg/Kg-dry	1	11/13/2018
Methylene chloride	ND	0.016		mg/Kg-dry	1	11/13/2018
Methyl tert-butyl ether	ND	0.0083		mg/Kg-dry	1	11/13/2018
Styrene	ND	0.0083		mg/Kg-dry	1	11/13/2018
1,1,2,2-Tetrachloroethane	ND	0.0083		mg/Kg-dry	1	11/13/2018
Tetrachloroethene	ND	0.0083		mg/Kg-dry	1	11/13/2018
Toluene	ND	0.0083		mg/Kg-dry	1	11/13/2018
1,1,1-Trichloroethane	ND	0.0083		mg/Kg-dry	1	11/13/2018
1,1,2-Trichloroethane	ND	0.0083		mg/Kg-dry	1	11/13/2018
Trichloroethene	ND	0.0083		mg/Kg-dry	1	11/13/2018
Vinyl chloride	ND	0.0083		mg/Kg-dry	1	11/13/2018
Xylenes, Total	ND	0.025		mg/Kg-dry	1	11/13/2018
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: FP
Acenaphthene	ND	0.040		mg/Kg-dry	1	11/15/2018
Acenaphthylene	ND	0.040		mg/Kg-dry	1	11/15/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

Client: Carnow, Conibear, & Associates  
 Work Order: 18110408 Revision 4  
 Project: Firestation 115 B, 119th & Morgan St.  
 Lab ID: 18110408-008

Client Sample ID: B-102B (3-5)  
 Collection Date: 11/12/2018 11:35:00 AM  
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: FP
Aniline	ND	0.42		mg/Kg-dry	1	11/15/2018
Anthracene	ND	0.040		mg/Kg-dry	1	11/15/2018
Benz(a)anthracene	ND	0.040		mg/Kg-dry	1	11/15/2018
Benzidine	ND	0.40		mg/Kg-dry	1	11/15/2018
Benzo(a)pyrene	ND	0.040		mg/Kg-dry	1	11/15/2018
Benzo(b)fluoranthene	ND	0.040		mg/Kg-dry	1	11/15/2018
Benzo(g,h,i)perylene	ND	0.040		mg/Kg-dry	1	11/15/2018
Benzo(k)fluoranthene	ND	0.040		mg/Kg-dry	1	11/15/2018
Benzoic acid	ND	1.0		mg/Kg-dry	1	11/15/2018
Benzyl alcohol	ND	0.21		mg/Kg-dry	1	11/15/2018
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	11/15/2018
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	11/15/2018
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg-dry	1	11/15/2018
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	11/15/2018
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	11/15/2018
Carbazole	ND	0.21		mg/Kg-dry	1	11/15/2018
4-Chloroaniline	ND	0.21		mg/Kg-dry	1	11/15/2018
4-Chloro-3-methylphenol	ND	0.40		mg/Kg-dry	1	11/15/2018
2-Chloronaphthalene	ND	0.21		mg/Kg-dry	1	11/15/2018
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	11/15/2018
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	11/15/2018
Chrysene	ND	0.040		mg/Kg-dry	1	11/15/2018
Dibenz(a,h)anthracene	ND	0.040		mg/Kg-dry	1	11/15/2018
Dibenzofuran	ND	0.21		mg/Kg-dry	1	11/15/2018
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	11/15/2018
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	11/15/2018
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	11/15/2018
3,3'-Dichlorobenzidine	ND	0.21		mg/Kg-dry	1	11/15/2018
2,4-Dichlorophenol	ND	0.21		mg/Kg-dry	1	11/15/2018
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	11/15/2018
2,4-Dimethylphenol	ND	0.21		mg/Kg-dry	1	11/15/2018
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	11/15/2018
4,6-Dinitro-2-methylphenol	ND	0.40		mg/Kg-dry	1	11/15/2018
2,4-Dinitrophenol	ND	1.0		mg/Kg-dry	1	11/15/2018
2,4-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	11/15/2018
2,6-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	11/15/2018
Di-n-butyl phthalate	ND	0.21		mg/Kg-dry	1	11/15/2018
Di-n-octyl phthalate	ND	0.21		mg/Kg-dry	1	11/15/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-008

**Client Sample ID:** B-102B (3-5)  
**Collection Date:** 11/12/2018 11:35:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: FP
Fluoranthene	ND	0.040		mg/Kg-dry	1	11/15/2018
Fluorene	ND	0.040		mg/Kg-dry	1	11/15/2018
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	11/15/2018
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	11/15/2018
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	11/15/2018
Hexachloroethane	ND	0.21		mg/Kg-dry	1	11/15/2018
Indeno(1,2,3-cd)pyrene	ND	0.040		mg/Kg-dry	1	11/15/2018
Isophorone	ND	0.21		mg/Kg-dry	1	11/15/2018
2-Methylnaphthalene	ND	0.21		mg/Kg-dry	1	11/15/2018
2-Methylphenol	ND	0.21		mg/Kg-dry	1	11/15/2018
4-Methylphenol	ND	0.21		mg/Kg-dry	1	11/15/2018
Naphthalene	ND	0.040		mg/Kg-dry	1	11/15/2018
2-Nitroaniline	ND	0.21		mg/Kg-dry	1	11/15/2018
3-Nitroaniline	ND	0.21		mg/Kg-dry	1	11/15/2018
4-Nitroaniline	ND	0.21		mg/Kg-dry	1	11/15/2018
2-Nitrophenol	ND	0.21		mg/Kg-dry	1	11/15/2018
4-Nitrophenol	ND	0.40		mg/Kg-dry	1	11/15/2018
Nitrobenzene	ND	0.040		mg/Kg-dry	1	11/15/2018
N-Nitrosodi-n-propylamine	ND	0.040		mg/Kg-dry	1	11/15/2018
N-Nitrosodimethylamine	ND	0.21		mg/Kg-dry	1	11/15/2018
N-Nitrosodiphenylamine	ND	0.040		mg/Kg-dry	1	11/15/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.21		mg/Kg-dry	1	11/15/2018
Pentachlorophenol	ND	0.040		mg/Kg-dry	1	11/15/2018
Phenanthrene	ND	0.040		mg/Kg-dry	1	11/15/2018
Phenol	ND	0.21		mg/Kg-dry	1	11/15/2018
Pyrene	ND	0.040		mg/Kg-dry	1	11/15/2018
Pyridine	ND	0.83		mg/Kg-dry	1	11/15/2018
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	1	11/15/2018
2,4,5-Trichlorophenol	ND	0.21		mg/Kg-dry	1	11/15/2018
2,4,6-Trichlorophenol	ND	0.21		mg/Kg-dry	1	11/15/2018
<b>PCBs</b>		<b>SW8082A (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: EN
Aroclor 1016	ND	0.10		mg/Kg-dry	1	11/14/2018
Aroclor 1221	ND	0.10		mg/Kg-dry	1	11/14/2018
Aroclor 1232	ND	0.10		mg/Kg-dry	1	11/14/2018
Aroclor 1242	ND	0.10		mg/Kg-dry	1	11/14/2018
Aroclor 1248	ND	0.10		mg/Kg-dry	1	11/14/2018
Aroclor 1254	ND	0.10		mg/Kg-dry	1	11/14/2018
Aroclor 1260	ND	0.10		mg/Kg-dry	1	11/14/2018

ND - Not Detected at the Reporting Limit

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**Qualifiers:**

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-008

**Client Sample ID:** B-102B (3-5)  
**Collection Date:** 11/12/2018 11:35:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Pesticides</b>		<b>SW8081B (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: EN
4,4'-DDD	ND	0.0020		mg/Kg-dry	1	11/14/2018
4,4'-DDE	ND	0.0020		mg/Kg-dry	1	11/14/2018
4,4'-DDT	ND	0.0020		mg/Kg-dry	1	11/14/2018
Aldrin	ND	0.0020		mg/Kg-dry	1	11/14/2018
alpha-BHC	ND	0.0020		mg/Kg-dry	1	11/14/2018
alpha-Chlordane	ND	0.0020		mg/Kg-dry	1	11/14/2018
beta-BHC	ND	0.0020		mg/Kg-dry	1	11/14/2018
Chlordane	ND	0.020		mg/Kg-dry	1	11/14/2018
delta-BHC	ND	0.0020		mg/Kg-dry	1	11/14/2018
Dieldrin	ND	0.0020		mg/Kg-dry	1	11/14/2018
Endosulfan I	ND	0.0020		mg/Kg-dry	1	11/14/2018
Endosulfan II	ND	0.0020		mg/Kg-dry	1	11/14/2018
Endosulfan sulfate	ND	0.0020		mg/Kg-dry	1	11/14/2018
Endrin	ND	0.0020		mg/Kg-dry	1	11/14/2018
Endrin aldehyde	ND	0.0020		mg/Kg-dry	1	11/14/2018
Endrin ketone	ND	0.0020		mg/Kg-dry	1	11/14/2018
gamma-BHC	ND	0.0020		mg/Kg-dry	1	11/14/2018
gamma-Chlordane	ND	0.0020		mg/Kg-dry	1	11/14/2018
Heptachlor	ND	0.0020		mg/Kg-dry	1	11/14/2018
Heptachlor epoxide	ND	0.0020		mg/Kg-dry	1	11/14/2018
Methoxychlor	ND	0.0020		mg/Kg-dry	1	11/14/2018
Toxaphene	ND	0.041		mg/Kg-dry	1	11/14/2018
<b>Total Petroleum Hydrocarbons</b>		<b>SW8015M (SW3580A)</b>		Prep Date: 11/13/2018		Analyst: GVC
TPH (GRO)	ND	24		mg/Kg-dry	1	11/14/2018
TPH (DRO)	35	24		mg/Kg-dry	1	11/14/2018
TPH (ERO)	ND	24	*	mg/Kg-dry	1	11/14/2018
<b>Metals by ICP/MS</b>		<b>SW6020A (SW3050B)</b>		Prep Date: 11/14/2018		Analyst: JG
Aluminum	7600	23		mg/Kg-dry	10	11/15/2018
Antimony	ND	2.3		mg/Kg-dry	10	11/15/2018
Arsenic	4.9	1.1		mg/Kg-dry	10	11/15/2018
Barium	47	1.1		mg/Kg-dry	10	11/15/2018
Beryllium	ND	0.57		mg/Kg-dry	10	11/15/2018
Cadmium	ND	0.57		mg/Kg-dry	10	11/15/2018
Calcium	2900	69		mg/Kg-dry	10	11/15/2018
Chromium	11	1.1		mg/Kg-dry	10	11/15/2018
Cobalt	3.3	1.1		mg/Kg-dry	10	11/15/2018
Copper	11	2.9		mg/Kg-dry	10	11/15/2018

**Qualifiers:**  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

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**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-008

**Client Sample ID:** B-102B (3-5)  
**Collection Date:** 11/12/2018 11:35:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020A (SW3050B)</b>		Prep Date: 11/14/2018 Analyst: JG			
Iron	13000	34		mg/Kg-dry	10	11/15/2018
Lead	30	0.57		mg/Kg-dry	10	11/15/2018
Magnesium	1300	34		mg/Kg-dry	10	11/15/2018
Manganese	75	1.1		mg/Kg-dry	10	11/15/2018
Nickel	8.0	1.1		mg/Kg-dry	10	11/15/2018
Potassium	400	34		mg/Kg-dry	10	11/15/2018
Selenium	ND	1.1		mg/Kg-dry	10	11/15/2018
Silver	ND	1.1		mg/Kg-dry	10	11/15/2018
Sodium	ND	69		mg/Kg-dry	10	11/15/2018
Thallium	ND	1.1		mg/Kg-dry	10	11/15/2018
Vanadium	28	1.1		mg/Kg-dry	10	11/15/2018
Zinc	39	5.7		mg/Kg-dry	10	11/15/2018
<b>Mercury</b>	<b>SW7471B</b>		Prep Date: 11/15/2018 Analyst: LB			
Mercury	ND	0.024		mg/Kg-dry	1	11/16/2018
<b>Cyanide, Total</b>	<b>SW9012A</b>		Prep Date: 11/19/2018 Analyst: JTB			
Cyanide	ND	0.32		mg/Kg-dry	1	11/19/2018
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: 11/15/2018 Analyst: JTB			
pH	7.60			pH Units	1	11/16/2018
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: 11/15/2018 Analyst: RW			
Percent Moisture	20.9	0.2	*	wt%	1	11/16/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

Client: Carnow, Conibear, & Associates  
 Work Order: 18110408 Revision 4  
 Project: Firestation 115 B, 119th & Morgan St.  
 Lab ID: 18110408-009

Client Sample ID: B-116B (1-3)  
 Collection Date: 11/12/2018 10:15:00 AM  
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: 11/13/2018		Analyst: MJK
Acetone	0.14	0.097		mg/Kg-dry	1	11/13/2018
Benzene	ND	0.0065		mg/Kg-dry	1	11/13/2018
Bromodichloromethane	ND	0.0065		mg/Kg-dry	1	11/13/2018
Bromoform	ND	0.0065		mg/Kg-dry	1	11/13/2018
Bromomethane	ND	0.013		mg/Kg-dry	1	11/13/2018
2-Butanone	ND	0.097		mg/Kg-dry	1	11/13/2018
Carbon disulfide	ND	0.065		mg/Kg-dry	1	11/13/2018
Carbon tetrachloride	ND	0.0065		mg/Kg-dry	1	11/13/2018
Chlorobenzene	ND	0.0065		mg/Kg-dry	1	11/13/2018
Chloroethane	ND	0.013		mg/Kg-dry	1	11/13/2018
Chloroform	ND	0.0065		mg/Kg-dry	1	11/13/2018
Chloromethane	ND	0.013		mg/Kg-dry	1	11/13/2018
Dibromochloromethane	ND	0.0065		mg/Kg-dry	1	11/13/2018
1,1-Dichloroethane	ND	0.0065		mg/Kg-dry	1	11/13/2018
1,2-Dichloroethane	ND	0.0065		mg/Kg-dry	1	11/13/2018
1,1-Dichloroethene	ND	0.0065		mg/Kg-dry	1	11/13/2018
cis-1,2-Dichloroethene	ND	0.0065		mg/Kg-dry	1	11/13/2018
trans-1,2-Dichloroethene	ND	0.0065		mg/Kg-dry	1	11/13/2018
1,2-Dichloropropane	ND	0.0065		mg/Kg-dry	1	11/13/2018
cis-1,3-Dichloropropene	ND	0.0026		mg/Kg-dry	1	11/13/2018
trans-1,3-Dichloropropene	ND	0.0026		mg/Kg-dry	1	11/13/2018
Ethylbenzene	ND	0.0065		mg/Kg-dry	1	11/13/2018
2-Hexanone	ND	0.026		mg/Kg-dry	1	11/13/2018
4-Methyl-2-pentanone	ND	0.026		mg/Kg-dry	1	11/13/2018
Methylene chloride	ND	0.013		mg/Kg-dry	1	11/13/2018
Methyl tert-butyl ether	ND	0.0065		mg/Kg-dry	1	11/13/2018
Styrene	ND	0.0065		mg/Kg-dry	1	11/13/2018
1,1,2,2-Tetrachloroethane	ND	0.0065		mg/Kg-dry	1	11/13/2018
Tetrachloroethene	ND	0.0065		mg/Kg-dry	1	11/13/2018
Toluene	ND	0.0065		mg/Kg-dry	1	11/13/2018
1,1,1-Trichloroethane	ND	0.0065		mg/Kg-dry	1	11/13/2018
1,1,2-Trichloroethane	ND	0.0065		mg/Kg-dry	1	11/13/2018
Trichloroethene	ND	0.0065		mg/Kg-dry	1	11/13/2018
Vinyl chloride	ND	0.0065		mg/Kg-dry	1	11/13/2018
Xylenes, Total	ND	0.020		mg/Kg-dry	1	11/13/2018
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: FP
Acenaphthene	ND	0.039		mg/Kg-dry	1	11/15/2018
Acenaphthylene	ND	0.039		mg/Kg-dry	1	11/15/2018

**Qualifiers:**  
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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-009

**Client Sample ID:** B-116B (1-3)  
**Collection Date:** 11/12/2018 10:15:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: FP
Aniline	ND	0.39		mg/Kg-dry	1	11/15/2018
Anthracene	ND	0.039		mg/Kg-dry	1	11/15/2018
Benz(a)anthracene	ND	0.039		mg/Kg-dry	1	11/15/2018
Benzidine	ND	0.39		mg/Kg-dry	1	11/15/2018
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	11/15/2018
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	11/15/2018
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	11/15/2018
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	11/15/2018
Benzoic acid	ND	0.97		mg/Kg-dry	1	11/15/2018
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	11/15/2018
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	11/15/2018
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	11/15/2018
Bis(2-ethylhexyl)phthalate	ND	0.97		mg/Kg-dry	1	11/15/2018
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	11/15/2018
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	11/15/2018
Carbazole	ND	0.20		mg/Kg-dry	1	11/15/2018
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	11/15/2018
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	11/15/2018
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	11/15/2018
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	11/15/2018
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	11/15/2018
Chrysene	ND	0.039		mg/Kg-dry	1	11/15/2018
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	11/15/2018
Dibenzofuran	ND	0.20		mg/Kg-dry	1	11/15/2018
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/15/2018
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/15/2018
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/15/2018
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	11/15/2018
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	11/15/2018
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	11/15/2018
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	11/15/2018
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	11/15/2018
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	11/15/2018
2,4-Dinitrophenol	ND	0.97		mg/Kg-dry	1	11/15/2018
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	11/15/2018
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	11/15/2018
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	11/15/2018
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	11/15/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-009

**Client Sample ID:** B-116B (1-3)  
**Collection Date:** 11/12/2018 10:15:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: FP
Fluoranthene	ND	0.039		mg/Kg-dry	1	11/15/2018
Fluorene	ND	0.039		mg/Kg-dry	1	11/15/2018
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	11/15/2018
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	11/15/2018
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	11/15/2018
Hexachloroethane	ND	0.20		mg/Kg-dry	1	11/15/2018
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	11/15/2018
Isophorone	ND	0.20		mg/Kg-dry	1	11/15/2018
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	11/15/2018
2-Methylphenol	ND	0.20		mg/Kg-dry	1	11/15/2018
4-Methylphenol	ND	0.20		mg/Kg-dry	1	11/15/2018
Naphthalene	ND	0.039		mg/Kg-dry	1	11/15/2018
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/15/2018
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/15/2018
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/15/2018
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	11/15/2018
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	11/15/2018
Nitrobenzene	ND	0.039		mg/Kg-dry	1	11/15/2018
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	11/15/2018
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	11/15/2018
N-Nitrosodiphenylamine	ND	0.039		mg/Kg-dry	1	11/15/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	11/15/2018
Pentachlorophenol	ND	0.039		mg/Kg-dry	1	11/15/2018
Phenanthrene	ND	0.039		mg/Kg-dry	1	11/15/2018
Phenol	ND	0.20		mg/Kg-dry	1	11/15/2018
Pyrene	ND	0.039		mg/Kg-dry	1	11/15/2018
Pyridine	ND	0.78		mg/Kg-dry	1	11/15/2018
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	11/15/2018
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	11/15/2018
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	11/15/2018
<b>PCBs</b>		<b>SW8082A (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: EN
Aroclor 1016	ND	0.093		mg/Kg-dry	1	11/14/2018
Aroclor 1221	ND	0.093		mg/Kg-dry	1	11/14/2018
Aroclor 1232	ND	0.093		mg/Kg-dry	1	11/14/2018
Aroclor 1242	ND	0.093		mg/Kg-dry	1	11/14/2018
Aroclor 1248	ND	0.093		mg/Kg-dry	1	11/14/2018
Aroclor 1254	ND	0.093		mg/Kg-dry	1	11/14/2018
Aroclor 1260	ND	0.093		mg/Kg-dry	1	11/14/2018

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

**Qualifiers:**

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S - Spike Recovery outside accepted recovery limits

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HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-009

**Client Sample ID:** B-116B (1-3)  
**Collection Date:** 11/12/2018 10:15:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Pesticides</b>		<b>SW8081B (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: EN
4,4'-DDD	ND	0.0019		mg/Kg-dry	1	11/14/2018
4,4'-DDE	ND	0.0019		mg/Kg-dry	1	11/14/2018
4,4'-DDT	ND	0.0019		mg/Kg-dry	1	11/14/2018
Aldrin	ND	0.0019		mg/Kg-dry	1	11/14/2018
alpha-BHC	ND	0.0019		mg/Kg-dry	1	11/14/2018
alpha-Chlordane	ND	0.0019		mg/Kg-dry	1	11/14/2018
beta-BHC	ND	0.0019		mg/Kg-dry	1	11/14/2018
Chlordane	ND	0.019		mg/Kg-dry	1	11/14/2018
delta-BHC	ND	0.0019		mg/Kg-dry	1	11/14/2018
Dieldrin	ND	0.0019		mg/Kg-dry	1	11/14/2018
Endosulfan I	ND	0.0019		mg/Kg-dry	1	11/14/2018
Endosulfan II	ND	0.0019		mg/Kg-dry	1	11/14/2018
Endosulfan sulfate	ND	0.0019		mg/Kg-dry	1	11/14/2018
Endrin	ND	0.0019		mg/Kg-dry	1	11/14/2018
Endrin aldehyde	ND	0.0019		mg/Kg-dry	1	11/14/2018
Endrin ketone	ND	0.0019		mg/Kg-dry	1	11/14/2018
gamma-BHC	ND	0.0019		mg/Kg-dry	1	11/14/2018
gamma-Chlordane	ND	0.0019		mg/Kg-dry	1	11/14/2018
Heptachlor	ND	0.0019		mg/Kg-dry	1	11/14/2018
Heptachlor epoxide	ND	0.0019		mg/Kg-dry	1	11/14/2018
Methoxychlor	ND	0.0019		mg/Kg-dry	1	11/14/2018
Toxaphene	ND	0.038		mg/Kg-dry	1	11/14/2018
<b>Total Petroleum Hydrocarbons</b>		<b>SW8015M (SW3580A)</b>		Prep Date: 11/13/2018		Analyst: GVC
TPH (GRO)	ND	23		mg/Kg-dry	1	11/14/2018
TPH (DRO)	ND	23		mg/Kg-dry	1	11/14/2018
TPH (ERO)	ND	23	*	mg/Kg-dry	1	11/14/2018
<b>Metals by ICP/MS</b>		<b>SW6020A (SW3050B)</b>		Prep Date: 11/14/2018		Analyst: JG
Aluminum	6500	20		mg/Kg-dry	10	11/16/2018
Antimony	ND	2.0		mg/Kg-dry	10	11/16/2018
Arsenic	11	1.0		mg/Kg-dry	10	11/16/2018
Barium	54	1.0		mg/Kg-dry	10	11/16/2018
Beryllium	0.54	0.50		mg/Kg-dry	10	11/16/2018
Cadmium	ND	0.50		mg/Kg-dry	10	11/16/2018
Calcium	28000	60		mg/Kg-dry	10	11/16/2018
Chromium	15	1.0		mg/Kg-dry	10	11/16/2018
Cobalt	9.1	1.0		mg/Kg-dry	10	11/16/2018
Copper	29	2.5		mg/Kg-dry	10	11/16/2018

**Qualifiers:**  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-009

**Client Sample ID:** B-116B (1-3)  
**Collection Date:** 11/12/2018 10:15:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020A (SW3050B)</b>				Prep Date: 11/14/2018	Analyst: JG
Iron	29000	30		mg/Kg-dry	10	11/16/2018
Lead	110	0.50		mg/Kg-dry	10	11/16/2018
Magnesium	14000	30		mg/Kg-dry	10	11/16/2018
Manganese	310	1.0		mg/Kg-dry	10	11/16/2018
Nickel	22	1.0		mg/Kg-dry	10	11/16/2018
Potassium	1000	30		mg/Kg-dry	10	11/16/2018
Selenium	ND	1.0		mg/Kg-dry	10	11/16/2018
Silver	ND	1.0		mg/Kg-dry	10	11/16/2018
Sodium	100	60		mg/Kg-dry	10	11/16/2018
Thallium	ND	1.0		mg/Kg-dry	10	11/16/2018
Vanadium	29	1.0		mg/Kg-dry	10	11/16/2018
Zinc	64	5.0		mg/Kg-dry	10	11/16/2018
<b>SPLP Metals by ICP/MS</b>	<b>SW1312/6020A (SW3005A)</b>				Prep Date: 12/6/2018	Analyst: JG
Iron	0.97	0.10		mg/L	2	12/6/2018
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A)</b>				Prep Date: 12/6/2018	Analyst: JG
Iron	ND	0.25		mg/L	5	12/6/2018
<b>Mercury</b>	<b>SW7471B</b>				Prep Date: 11/15/2018	Analyst: LB
Mercury	0.027	0.020		mg/Kg-dry	1	11/16/2018
<b>Cyanide, Total</b>	<b>SW9012A</b>				Prep Date: 11/19/2018	Analyst: JTB
Cyanide	1.3	0.29		mg/Kg-dry	1	11/19/2018
<b>pH (25 °C)</b>	<b>SW9045C</b>				Prep Date: 11/15/2018	Analyst: JTB
pH	7.47			pH Units	1	11/16/2018
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 11/15/2018	Analyst: RW
Percent Moisture	14.3	0.2	*	wt%	1	11/16/2018

**Qualifiers:**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-010

**Client Sample ID:** B-116B (3-5)  
**Collection Date:** 11/12/2018 10:20:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: 11/13/2018		Analyst: MJK
Acetone	ND	0.092		mg/Kg-dry	1	11/13/2018
Benzene	ND	0.0061		mg/Kg-dry	1	11/13/2018
Bromodichloromethane	ND	0.0061		mg/Kg-dry	1	11/13/2018
Bromoform	ND	0.0061		mg/Kg-dry	1	11/13/2018
Bromomethane	ND	0.012		mg/Kg-dry	1	11/13/2018
2-Butanone	ND	0.092		mg/Kg-dry	1	11/13/2018
Carbon disulfide	ND	0.061		mg/Kg-dry	1	11/13/2018
Carbon tetrachloride	ND	0.0061		mg/Kg-dry	1	11/13/2018
Chlorobenzene	ND	0.0061		mg/Kg-dry	1	11/13/2018
Chloroethane	ND	0.012		mg/Kg-dry	1	11/13/2018
Chloroform	ND	0.0061		mg/Kg-dry	1	11/13/2018
Chloromethane	ND	0.012		mg/Kg-dry	1	11/13/2018
Dibromochloromethane	ND	0.0061		mg/Kg-dry	1	11/13/2018
1,1-Dichloroethane	ND	0.0061		mg/Kg-dry	1	11/13/2018
1,2-Dichloroethane	ND	0.0061		mg/Kg-dry	1	11/13/2018
1,1-Dichloroethene	ND	0.0061		mg/Kg-dry	1	11/13/2018
cis-1,2-Dichloroethene	ND	0.0061		mg/Kg-dry	1	11/13/2018
trans-1,2-Dichloroethene	ND	0.0061		mg/Kg-dry	1	11/13/2018
1,2-Dichloropropane	ND	0.0061		mg/Kg-dry	1	11/13/2018
cis-1,3-Dichloropropene	ND	0.0024		mg/Kg-dry	1	11/13/2018
trans-1,3-Dichloropropene	ND	0.0024		mg/Kg-dry	1	11/13/2018
Ethylbenzene	ND	0.0061		mg/Kg-dry	1	11/13/2018
2-Hexanone	ND	0.024		mg/Kg-dry	1	11/13/2018
4-Methyl-2-pentanone	ND	0.024		mg/Kg-dry	1	11/13/2018
Methylene chloride	ND	0.012		mg/Kg-dry	1	11/13/2018
Methyl tert-butyl ether	ND	0.0061		mg/Kg-dry	1	11/13/2018
Styrene	ND	0.0061		mg/Kg-dry	1	11/13/2018
1,1,2,2-Tetrachloroethane	ND	0.0061		mg/Kg-dry	1	11/13/2018
Tetrachloroethene	ND	0.0061		mg/Kg-dry	1	11/13/2018
Toluene	ND	0.0061		mg/Kg-dry	1	11/13/2018
1,1,1-Trichloroethane	ND	0.0061		mg/Kg-dry	1	11/13/2018
1,1,2-Trichloroethane	ND	0.0061		mg/Kg-dry	1	11/13/2018
Trichloroethene	ND	0.0061		mg/Kg-dry	1	11/13/2018
Vinyl chloride	ND	0.0061		mg/Kg-dry	1	11/13/2018
Xylenes, Total	ND	0.018		mg/Kg-dry	1	11/13/2018
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: FP
Acenaphthene	ND	0.042		mg/Kg-dry	1	11/15/2018
Acenaphthylene	ND	0.042		mg/Kg-dry	1	11/15/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

Client: Carnow, Conibear, & Associates  
 Work Order: 18110408 Revision 4  
 Project: Firestation 115 B, 119th & Morgan St.  
 Lab ID: 18110408-010

Client Sample ID: B-116B (3-5)  
 Collection Date: 11/12/2018 10:20:00 AM  
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: FP
Aniline	ND	0.42		mg/Kg-dry	1	11/15/2018
Anthracene	ND	0.042		mg/Kg-dry	1	11/15/2018
Benz(a)anthracene	ND	0.042		mg/Kg-dry	1	11/15/2018
Benzidine	ND	0.42		mg/Kg-dry	1	11/15/2018
Benzo(a)pyrene	ND	0.042		mg/Kg-dry	1	11/15/2018
Benzo(b)fluoranthene	ND	0.042		mg/Kg-dry	1	11/15/2018
Benzo(g,h,i)perylene	ND	0.042		mg/Kg-dry	1	11/15/2018
Benzo(k)fluoranthene	ND	0.042		mg/Kg-dry	1	11/15/2018
Benzoic acid	ND	1.0		mg/Kg-dry	1	11/15/2018
Benzyl alcohol	ND	0.22		mg/Kg-dry	1	11/15/2018
Bis(2-chloroethoxy)methane	ND	0.22		mg/Kg-dry	1	11/15/2018
Bis(2-chloroethyl)ether	ND	0.22		mg/Kg-dry	1	11/15/2018
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg-dry	1	11/15/2018
4-Bromophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	11/15/2018
Butyl benzyl phthalate	ND	0.22		mg/Kg-dry	1	11/15/2018
Carbazole	ND	0.22		mg/Kg-dry	1	11/15/2018
4-Chloroaniline	ND	0.22		mg/Kg-dry	1	11/15/2018
4-Chloro-3-methylphenol	ND	0.42		mg/Kg-dry	1	11/15/2018
2-Chloronaphthalene	ND	0.22		mg/Kg-dry	1	11/15/2018
2-Chlorophenol	ND	0.22		mg/Kg-dry	1	11/15/2018
4-Chlorophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	11/15/2018
Chrysene	ND	0.042		mg/Kg-dry	1	11/15/2018
Dibenz(a,h)anthracene	ND	0.042		mg/Kg-dry	1	11/15/2018
Dibenzofuran	ND	0.22		mg/Kg-dry	1	11/15/2018
1,2-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	11/15/2018
1,3-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	11/15/2018
1,4-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	11/15/2018
3,3'-Dichlorobenzidine	ND	0.22		mg/Kg-dry	1	11/15/2018
2,4-Dichlorophenol	ND	0.22		mg/Kg-dry	1	11/15/2018
Diethyl phthalate	ND	0.22		mg/Kg-dry	1	11/15/2018
2,4-Dimethylphenol	ND	0.22		mg/Kg-dry	1	11/15/2018
Dimethyl phthalate	ND	0.22		mg/Kg-dry	1	11/15/2018
4,6-Dinitro-2-methylphenol	ND	0.42		mg/Kg-dry	1	11/15/2018
2,4-Dinitrophenol	ND	1.0		mg/Kg-dry	1	11/15/2018
2,4-Dinitrotoluene	ND	0.042		mg/Kg-dry	1	11/15/2018
2,6-Dinitrotoluene	ND	0.042		mg/Kg-dry	1	11/15/2018
Di-n-butyl phthalate	ND	0.22		mg/Kg-dry	1	11/15/2018
Di-n-octyl phthalate	ND	0.22		mg/Kg-dry	1	11/15/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-010

**Client Sample ID:** B-116B (3-5)  
**Collection Date:** 11/12/2018 10:20:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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**Semivolatile Organic Compounds by GC/MS SW8270C (SW3550B) Prep Date: 11/14/2018 Analyst: FP**

Fluoranthene	ND	0.042		mg/Kg-dry	1	11/15/2018
Fluorene	ND	0.042		mg/Kg-dry	1	11/15/2018
Hexachlorobenzene	ND	0.22		mg/Kg-dry	1	11/15/2018
Hexachlorobutadiene	ND	0.22		mg/Kg-dry	1	11/15/2018
Hexachlorocyclopentadiene	ND	0.22		mg/Kg-dry	1	11/15/2018
Hexachloroethane	ND	0.22		mg/Kg-dry	1	11/15/2018
Indeno(1,2,3-cd)pyrene	ND	0.042		mg/Kg-dry	1	11/15/2018
Isophorone	ND	0.22		mg/Kg-dry	1	11/15/2018
2-Methylnaphthalene	ND	0.22		mg/Kg-dry	1	11/15/2018
2-Methylphenol	ND	0.22		mg/Kg-dry	1	11/15/2018
4-Methylphenol	ND	0.22		mg/Kg-dry	1	11/15/2018
Naphthalene	ND	0.042		mg/Kg-dry	1	11/15/2018
2-Nitroaniline	ND	0.22		mg/Kg-dry	1	11/15/2018
3-Nitroaniline	ND	0.22		mg/Kg-dry	1	11/15/2018
4-Nitroaniline	ND	0.22		mg/Kg-dry	1	11/15/2018
2-Nitrophenol	ND	0.22		mg/Kg-dry	1	11/15/2018
4-Nitrophenol	ND	0.42		mg/Kg-dry	1	11/15/2018
Nitrobenzene	ND	0.042		mg/Kg-dry	1	11/15/2018
N-Nitrosodi-n-propylamine	ND	0.042		mg/Kg-dry	1	11/15/2018
N-Nitrosodimethylamine	ND	0.22		mg/Kg-dry	1	11/15/2018
N-Nitrosodiphenylamine	ND	0.042		mg/Kg-dry	1	11/15/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.22		mg/Kg-dry	1	11/15/2018
Pentachlorophenol	ND	0.042		mg/Kg-dry	1	11/15/2018
Phenanthrene	ND	0.042		mg/Kg-dry	1	11/15/2018
Phenol	ND	0.22		mg/Kg-dry	1	11/15/2018
Pyrene	ND	0.042		mg/Kg-dry	1	11/15/2018
Pyridine	ND	0.84		mg/Kg-dry	1	11/15/2018
1,2,4-Trichlorobenzene	ND	0.22		mg/Kg-dry	1	11/15/2018
2,4,5-Trichlorophenol	ND	0.22		mg/Kg-dry	1	11/15/2018
2,4,6-Trichlorophenol	ND	0.22		mg/Kg-dry	1	11/15/2018

**PCBs SW8082A (SW3550B) Prep Date: 11/14/2018 Analyst: EN**

Aroclor 1016	ND	0.10		mg/Kg-dry	1	11/14/2018
Aroclor 1221	ND	0.10		mg/Kg-dry	1	11/14/2018
Aroclor 1232	ND	0.10		mg/Kg-dry	1	11/14/2018
Aroclor 1242	ND	0.10		mg/Kg-dry	1	11/14/2018
Aroclor 1248	ND	0.10		mg/Kg-dry	1	11/14/2018
Aroclor 1254	ND	0.10		mg/Kg-dry	1	11/14/2018
Aroclor 1260	ND	0.10		mg/Kg-dry	1	11/14/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-010

**Client Sample ID:** B-116B (3-5)  
**Collection Date:** 11/12/2018 10:20:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Pesticides</b>		<b>SW8081B (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: EN
4,4'-DDD	ND	0.0020		mg/Kg-dry	1	11/14/2018
4,4'-DDE	ND	0.0020		mg/Kg-dry	1	11/14/2018
4,4'-DDT	ND	0.0020		mg/Kg-dry	1	11/14/2018
Aldrin	ND	0.0020		mg/Kg-dry	1	11/14/2018
alpha-BHC	ND	0.0020		mg/Kg-dry	1	11/14/2018
alpha-Chlordane	ND	0.0020		mg/Kg-dry	1	11/14/2018
beta-BHC	ND	0.0020		mg/Kg-dry	1	11/14/2018
Chlordane	ND	0.020		mg/Kg-dry	1	11/14/2018
delta-BHC	ND	0.0020		mg/Kg-dry	1	11/14/2018
Dieldrin	ND	0.0020		mg/Kg-dry	1	11/14/2018
Endosulfan I	ND	0.0020		mg/Kg-dry	1	11/14/2018
Endosulfan II	ND	0.0020		mg/Kg-dry	1	11/14/2018
Endosulfan sulfate	ND	0.0020		mg/Kg-dry	1	11/14/2018
Endrin	ND	0.0020		mg/Kg-dry	1	11/14/2018
Endrin aldehyde	ND	0.0020		mg/Kg-dry	1	11/14/2018
Endrin ketone	ND	0.0020		mg/Kg-dry	1	11/14/2018
gamma-BHC	ND	0.0020		mg/Kg-dry	1	11/14/2018
gamma-Chlordane	ND	0.0020		mg/Kg-dry	1	11/14/2018
Heptachlor	ND	0.0020		mg/Kg-dry	1	11/14/2018
Heptachlor epoxide	ND	0.0020		mg/Kg-dry	1	11/14/2018
Methoxychlor	ND	0.0020		mg/Kg-dry	1	11/14/2018
Toxaphene	ND	0.042		mg/Kg-dry	1	11/14/2018
<b>Total Petroleum Hydrocarbons</b>		<b>SW8015M (SW3580A)</b>		Prep Date: 11/13/2018		Analyst: GVC
TPH (GRO)	ND	25		mg/Kg-dry	1	11/14/2018
TPH (DRO)	ND	25		mg/Kg-dry	1	11/14/2018
TPH (ERO)	ND	25	*	mg/Kg-dry	1	11/14/2018
<b>Metals by ICP/MS</b>		<b>SW6020A (SW3050B)</b>		Prep Date: 11/14/2018		Analyst: JG
Aluminum	9100	23		mg/Kg-dry	10	11/16/2018
Antimony	ND	2.3		mg/Kg-dry	10	11/16/2018
Arsenic	9.0	1.2		mg/Kg-dry	10	11/16/2018
Barium	73	1.2		mg/Kg-dry	10	11/16/2018
Beryllium	ND	0.58		mg/Kg-dry	10	11/16/2018
Cadmium	ND	0.58		mg/Kg-dry	10	11/16/2018
Calcium	4000	70		mg/Kg-dry	10	11/16/2018
Chromium	15	1.2		mg/Kg-dry	10	11/16/2018
Cobalt	5.5	1.2		mg/Kg-dry	10	11/16/2018
Copper	11	2.9		mg/Kg-dry	10	11/16/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

Client: Carnow, Conibear, & Associates  
 Work Order: 18110408 Revision 4  
 Project: Firestation 115 B, 119th & Morgan St.  
 Lab ID: 18110408-010

Client Sample ID: B-116B (3-5)  
 Collection Date: 11/12/2018 10:20:00 AM  
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020A (SW3050B)</b>		Prep Date: 11/14/2018 Analyst: JG			
Iron	16000	35		mg/Kg-dry	10	11/16/2018
Lead	20	0.58		mg/Kg-dry	10	11/16/2018
Magnesium	1800	35		mg/Kg-dry	10	11/16/2018
Manganese	86	1.2		mg/Kg-dry	10	11/16/2018
Nickel	10	1.2		mg/Kg-dry	10	11/16/2018
Potassium	500	35		mg/Kg-dry	10	11/16/2018
Selenium	ND	1.2		mg/Kg-dry	10	11/16/2018
Silver	ND	1.2		mg/Kg-dry	10	11/16/2018
Sodium	ND	70		mg/Kg-dry	10	11/16/2018
Thallium	ND	1.2		mg/Kg-dry	10	11/16/2018
Vanadium	42	1.2		mg/Kg-dry	10	11/16/2018
Zinc	23	5.8		mg/Kg-dry	10	11/16/2018
<b>Mercury</b>	<b>SW7471B</b>		Prep Date: 11/15/2018 Analyst: LB			
Mercury	ND	0.024		mg/Kg-dry	1	11/16/2018
<b>Cyanide, Total</b>	<b>SW9012A</b>		Prep Date: 11/19/2018 Analyst: JTB			
Cyanide	ND	0.32		mg/Kg-dry	1	11/19/2018
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: 11/15/2018 Analyst: JTB			
pH	7.34			pH Units	1	11/16/2018
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: 11/15/2018 Analyst: RW			
Percent Moisture	21.6	0.2	*	wt%	1	11/16/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

Client: Carnow, Conibear, & Associates  
 Work Order: 18110408 Revision 4  
 Project: Firestation 115 B, 119th & Morgan St.  
 Lab ID: 18110408-011

Client Sample ID: B-113B (1-3)  
 Collection Date: 11/12/2018 9:40:00 AM  
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: 11/13/2018		Analyst: MJK
Acetone	ND	0.12		mg/Kg-dry	1	11/13/2018
Benzene	ND	0.0081		mg/Kg-dry	1	11/13/2018
Bromodichloromethane	ND	0.0081		mg/Kg-dry	1	11/13/2018
Bromoform	ND	0.0081		mg/Kg-dry	1	11/13/2018
Bromomethane	ND	0.016		mg/Kg-dry	1	11/13/2018
2-Butanone	ND	0.12		mg/Kg-dry	1	11/13/2018
Carbon disulfide	ND	0.081		mg/Kg-dry	1	11/13/2018
Carbon tetrachloride	ND	0.0081		mg/Kg-dry	1	11/13/2018
Chlorobenzene	ND	0.0081		mg/Kg-dry	1	11/13/2018
Chloroethane	ND	0.016		mg/Kg-dry	1	11/13/2018
Chloroform	ND	0.0081		mg/Kg-dry	1	11/13/2018
Chloromethane	ND	0.016		mg/Kg-dry	1	11/13/2018
Dibromochloromethane	ND	0.0081		mg/Kg-dry	1	11/13/2018
1,1-Dichloroethane	ND	0.0081		mg/Kg-dry	1	11/13/2018
1,2-Dichloroethane	ND	0.0081		mg/Kg-dry	1	11/13/2018
1,1-Dichloroethene	ND	0.0081		mg/Kg-dry	1	11/13/2018
cis-1,2-Dichloroethene	ND	0.0081		mg/Kg-dry	1	11/13/2018
trans-1,2-Dichloroethene	ND	0.0081		mg/Kg-dry	1	11/13/2018
1,2-Dichloropropane	ND	0.0081		mg/Kg-dry	1	11/13/2018
cis-1,3-Dichloropropene	ND	0.0033		mg/Kg-dry	1	11/13/2018
trans-1,3-Dichloropropene	ND	0.0033		mg/Kg-dry	1	11/13/2018
Ethylbenzene	ND	0.0081		mg/Kg-dry	1	11/13/2018
2-Hexanone	ND	0.033		mg/Kg-dry	1	11/13/2018
4-Methyl-2-pentanone	ND	0.033		mg/Kg-dry	1	11/13/2018
Methylene chloride	ND	0.016		mg/Kg-dry	1	11/13/2018
Methyl tert-butyl ether	ND	0.0081		mg/Kg-dry	1	11/13/2018
Styrene	ND	0.0081		mg/Kg-dry	1	11/13/2018
1,1,2,2-Tetrachloroethane	ND	0.0081		mg/Kg-dry	1	11/13/2018
Tetrachloroethene	ND	0.0081		mg/Kg-dry	1	11/13/2018
Toluene	ND	0.0081		mg/Kg-dry	1	11/13/2018
1,1,1-Trichloroethane	ND	0.0081		mg/Kg-dry	1	11/13/2018
1,1,2-Trichloroethane	ND	0.0081		mg/Kg-dry	1	11/13/2018
Trichloroethene	ND	0.0081		mg/Kg-dry	1	11/13/2018
Vinyl chloride	ND	0.0081		mg/Kg-dry	1	11/13/2018
Xylenes, Total	ND	0.025		mg/Kg-dry	1	11/13/2018
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: FP
Acenaphthene	ND	0.042		mg/Kg-dry	1	11/15/2018
Acenaphthylene	ND	0.042		mg/Kg-dry	1	11/15/2018

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
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 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-011

**Client Sample ID:** B-113B (1-3)  
**Collection Date:** 11/12/2018 9:40:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: FP
Aniline	ND	0.43		mg/Kg-dry	1	11/15/2018
Anthracene	ND	0.042		mg/Kg-dry	1	11/15/2018
Benz(a)anthracene	ND	0.042		mg/Kg-dry	1	11/15/2018
Benzidine	ND	0.42		mg/Kg-dry	1	11/15/2018
Benzo(a)pyrene	ND	0.042		mg/Kg-dry	1	11/15/2018
Benzo(b)fluoranthene	ND	0.042		mg/Kg-dry	1	11/15/2018
Benzo(g,h,i)perylene	ND	0.042		mg/Kg-dry	1	11/15/2018
Benzo(k)fluoranthene	ND	0.042		mg/Kg-dry	1	11/15/2018
Benzoic acid	ND	1.1		mg/Kg-dry	1	11/15/2018
Benzyl alcohol	ND	0.22		mg/Kg-dry	1	11/15/2018
Bis(2-chloroethoxy)methane	ND	0.22		mg/Kg-dry	1	11/15/2018
Bis(2-chloroethyl)ether	ND	0.22		mg/Kg-dry	1	11/15/2018
Bis(2-ethylhexyl)phthalate	ND	1.1		mg/Kg-dry	1	11/15/2018
4-Bromophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	11/15/2018
Butyl benzyl phthalate	ND	0.22		mg/Kg-dry	1	11/15/2018
Carbazole	ND	0.22		mg/Kg-dry	1	11/15/2018
4-Chloroaniline	ND	0.22		mg/Kg-dry	1	11/15/2018
4-Chloro-3-methylphenol	ND	0.42		mg/Kg-dry	1	11/15/2018
2-Chloronaphthalene	ND	0.22		mg/Kg-dry	1	11/15/2018
2-Chlorophenol	ND	0.22		mg/Kg-dry	1	11/15/2018
4-Chlorophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	11/15/2018
Chrysene	ND	0.042		mg/Kg-dry	1	11/15/2018
Dibenz(a,h)anthracene	ND	0.042		mg/Kg-dry	1	11/15/2018
Dibenzofuran	ND	0.22		mg/Kg-dry	1	11/15/2018
1,2-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	11/15/2018
1,3-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	11/15/2018
1,4-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	11/15/2018
3,3'-Dichlorobenzidine	ND	0.22		mg/Kg-dry	1	11/15/2018
2,4-Dichlorophenol	ND	0.22		mg/Kg-dry	1	11/15/2018
Diethyl phthalate	ND	0.22		mg/Kg-dry	1	11/15/2018
2,4-Dimethylphenol	ND	0.22		mg/Kg-dry	1	11/15/2018
Dimethyl phthalate	ND	0.22		mg/Kg-dry	1	11/15/2018
4,6-Dinitro-2-methylphenol	ND	0.42		mg/Kg-dry	1	11/15/2018
2,4-Dinitrophenol	ND	1.1		mg/Kg-dry	1	11/15/2018
2,4-Dinitrotoluene	ND	0.042		mg/Kg-dry	1	11/15/2018
2,6-Dinitrotoluene	ND	0.042		mg/Kg-dry	1	11/15/2018
Di-n-butyl phthalate	ND	0.22		mg/Kg-dry	1	11/15/2018
Di-n-octyl phthalate	ND	0.22		mg/Kg-dry	1	11/15/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-011

**Client Sample ID:** B-113B (1-3)  
**Collection Date:** 11/12/2018 9:40:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: FP
Fluoranthene	ND	0.042		mg/Kg-dry	1	11/15/2018
Fluorene	ND	0.042		mg/Kg-dry	1	11/15/2018
Hexachlorobenzene	ND	0.22		mg/Kg-dry	1	11/15/2018
Hexachlorobutadiene	ND	0.22		mg/Kg-dry	1	11/15/2018
Hexachlorocyclopentadiene	ND	0.22		mg/Kg-dry	1	11/15/2018
Hexachloroethane	ND	0.22		mg/Kg-dry	1	11/15/2018
Indeno(1,2,3-cd)pyrene	ND	0.042		mg/Kg-dry	1	11/15/2018
Isophorone	ND	0.22		mg/Kg-dry	1	11/15/2018
2-Methylnaphthalene	ND	0.22		mg/Kg-dry	1	11/15/2018
2-Methylphenol	ND	0.22		mg/Kg-dry	1	11/15/2018
4-Methylphenol	ND	0.22		mg/Kg-dry	1	11/15/2018
Naphthalene	ND	0.042		mg/Kg-dry	1	11/15/2018
2-Nitroaniline	ND	0.22		mg/Kg-dry	1	11/15/2018
3-Nitroaniline	ND	0.22		mg/Kg-dry	1	11/15/2018
4-Nitroaniline	ND	0.22		mg/Kg-dry	1	11/15/2018
2-Nitrophenol	ND	0.22		mg/Kg-dry	1	11/15/2018
4-Nitrophenol	ND	0.42		mg/Kg-dry	1	11/15/2018
Nitrobenzene	ND	0.042		mg/Kg-dry	1	11/15/2018
N-Nitrosodi-n-propylamine	ND	0.042		mg/Kg-dry	1	11/15/2018
N-Nitrosodimethylamine	ND	0.22		mg/Kg-dry	1	11/15/2018
N-Nitrosodiphenylamine	ND	0.042		mg/Kg-dry	1	11/15/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.22		mg/Kg-dry	1	11/15/2018
Pentachlorophenol	ND	0.042		mg/Kg-dry	1	11/15/2018
Phenanthrene	ND	0.042		mg/Kg-dry	1	11/15/2018
Phenol	ND	0.22		mg/Kg-dry	1	11/15/2018
Pyrene	ND	0.042		mg/Kg-dry	1	11/15/2018
Pyridine	ND	0.87		mg/Kg-dry	1	11/15/2018
1,2,4-Trichlorobenzene	ND	0.22		mg/Kg-dry	1	11/15/2018
2,4,5-Trichlorophenol	ND	0.22		mg/Kg-dry	1	11/15/2018
2,4,6-Trichlorophenol	ND	0.22		mg/Kg-dry	1	11/15/2018
<b>PCBs</b>		<b>SW8082A (SW3550B)</b>		Prep Date: 11/15/2018		Analyst: GVC
Aroclor 1016	ND	0.10		mg/Kg-dry	1	11/15/2018
Aroclor 1221	ND	0.10		mg/Kg-dry	1	11/15/2018
Aroclor 1232	ND	0.10		mg/Kg-dry	1	11/15/2018
Aroclor 1242	ND	0.10		mg/Kg-dry	1	11/15/2018
Aroclor 1248	ND	0.10		mg/Kg-dry	1	11/15/2018
Aroclor 1254	ND	0.10		mg/Kg-dry	1	11/15/2018
Aroclor 1260	ND	0.10		mg/Kg-dry	1	11/15/2018

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RL - Reporting / Quantitation Limit for the analysis

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-011

**Client Sample ID:** B-113B (1-3)  
**Collection Date:** 11/12/2018 9:40:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Pesticides</b>		<b>SW8081B (SW3550B)</b>		Prep Date: 11/15/2018		Analyst: GVC
4,4'-DDD	ND	0.0021		mg/Kg-dry	1	11/15/2018
4,4'-DDE	ND	0.0021		mg/Kg-dry	1	11/15/2018
4,4'-DDT	ND	0.0021		mg/Kg-dry	1	11/15/2018
Aldrin	ND	0.0021		mg/Kg-dry	1	11/15/2018
alpha-BHC	ND	0.0021		mg/Kg-dry	1	11/15/2018
alpha-Chlordane	ND	0.0021		mg/Kg-dry	1	11/15/2018
beta-BHC	ND	0.0021		mg/Kg-dry	1	11/15/2018
Chlordane	ND	0.021		mg/Kg-dry	1	11/15/2018
delta-BHC	ND	0.0021		mg/Kg-dry	1	11/15/2018
Dieldrin	ND	0.0021		mg/Kg-dry	1	11/15/2018
Endosulfan I	ND	0.0021		mg/Kg-dry	1	11/15/2018
Endosulfan II	ND	0.0021		mg/Kg-dry	1	11/15/2018
Endosulfan sulfate	ND	0.0021		mg/Kg-dry	1	11/15/2018
Endrin	ND	0.0021		mg/Kg-dry	1	11/15/2018
Endrin aldehyde	ND	0.0021		mg/Kg-dry	1	11/15/2018
Endrin ketone	ND	0.0021		mg/Kg-dry	1	11/15/2018
gamma-BHC	ND	0.0021		mg/Kg-dry	1	11/15/2018
gamma-Chlordane	ND	0.0021		mg/Kg-dry	1	11/15/2018
Heptachlor	ND	0.0021		mg/Kg-dry	1	11/15/2018
Heptachlor epoxide	ND	0.0021		mg/Kg-dry	1	11/15/2018
Methoxychlor	ND	0.0021		mg/Kg-dry	1	11/15/2018
Toxaphene	ND	0.043		mg/Kg-dry	1	11/15/2018
<b>Total Petroleum Hydrocarbons</b>		<b>SW8015M (SW3580A)</b>		Prep Date: 11/13/2018		Analyst: GVC
TPH (GRO)	ND	26		mg/Kg-dry	1	11/14/2018
TPH (DRO)	ND	26		mg/Kg-dry	1	11/14/2018
TPH (ERO)	ND	26	*	mg/Kg-dry	1	11/14/2018
<b>Metals by ICP/MS</b>		<b>SW6020A (SW3050B)</b>		Prep Date: 11/14/2018		Analyst: JG
Aluminum	9700	23		mg/Kg-dry	10	11/16/2018
Antimony	ND	2.3		mg/Kg-dry	10	11/16/2018
Arsenic	8.1	1.2		mg/Kg-dry	10	11/16/2018
Barium	69	1.2		mg/Kg-dry	10	11/16/2018
Beryllium	0.63	0.58		mg/Kg-dry	10	11/16/2018
Cadmium	ND	0.58		mg/Kg-dry	10	11/16/2018
Calcium	3300	70		mg/Kg-dry	10	11/16/2018
Chromium	16	1.2		mg/Kg-dry	10	11/16/2018
Cobalt	5.6	1.2		mg/Kg-dry	10	11/16/2018
Copper	15	2.9		mg/Kg-dry	10	11/16/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-011

**Client Sample ID:** B-113B (1-3)  
**Collection Date:** 11/12/2018 9:40:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020A (SW3050B)</b>		Prep Date: 11/14/2018 Analyst: JG			
Iron	17000	35		mg/Kg-dry	10	11/16/2018
Lead	33	0.58		mg/Kg-dry	10	11/16/2018
Magnesium	2100	35		mg/Kg-dry	10	11/16/2018
Manganese	100	1.2		mg/Kg-dry	10	11/16/2018
Nickel	12	1.2		mg/Kg-dry	10	11/16/2018
Potassium	620	35		mg/Kg-dry	10	11/16/2018
Selenium	ND	1.2		mg/Kg-dry	10	11/16/2018
Silver	ND	1.2		mg/Kg-dry	10	11/16/2018
Sodium	ND	70		mg/Kg-dry	10	11/16/2018
Thallium	ND	1.2		mg/Kg-dry	10	11/16/2018
Vanadium	41	1.2		mg/Kg-dry	10	11/16/2018
Zinc	31	5.8		mg/Kg-dry	10	11/16/2018
<b>Mercury</b>	<b>SW7471B</b>		Prep Date: 11/15/2018 Analyst: LB			
Mercury	ND	0.025		mg/Kg-dry	1	11/16/2018
<b>Cyanide, Total</b>	<b>SW9012A</b>		Prep Date: 11/19/2018 Analyst: JTB			
Cyanide	ND	0.33		mg/Kg-dry	1	11/19/2018
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: 11/15/2018 Analyst: JTB			
pH	7.44			pH Units	1	11/16/2018
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: 11/15/2018 Analyst: RW			
Percent Moisture	23.8	0.2	*	wt%	1	11/16/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-012

**Client Sample ID:** B-113B (3-5)  
**Collection Date:** 11/12/2018 9:50:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: 11/13/2018		Analyst: MJK
Acetone	ND	0.072		mg/Kg-dry	1	11/13/2018
Benzene	ND	0.0048		mg/Kg-dry	1	11/13/2018
Bromodichloromethane	ND	0.0048		mg/Kg-dry	1	11/13/2018
Bromoform	ND	0.0048		mg/Kg-dry	1	11/13/2018
Bromomethane	ND	0.0095		mg/Kg-dry	1	11/13/2018
2-Butanone	ND	0.072		mg/Kg-dry	1	11/13/2018
Carbon disulfide	ND	0.048		mg/Kg-dry	1	11/13/2018
Carbon tetrachloride	ND	0.0048		mg/Kg-dry	1	11/13/2018
Chlorobenzene	ND	0.0048		mg/Kg-dry	1	11/13/2018
Chloroethane	ND	0.0095		mg/Kg-dry	1	11/13/2018
Chloroform	ND	0.0048		mg/Kg-dry	1	11/13/2018
Chloromethane	ND	0.0095		mg/Kg-dry	1	11/13/2018
Dibromochloromethane	ND	0.0048		mg/Kg-dry	1	11/13/2018
1,1-Dichloroethane	ND	0.0048		mg/Kg-dry	1	11/13/2018
1,2-Dichloroethane	ND	0.0048		mg/Kg-dry	1	11/13/2018
1,1-Dichloroethene	ND	0.0048		mg/Kg-dry	1	11/13/2018
cis-1,2-Dichloroethene	ND	0.0048		mg/Kg-dry	1	11/13/2018
trans-1,2-Dichloroethene	ND	0.0048		mg/Kg-dry	1	11/13/2018
1,2-Dichloropropane	ND	0.0048		mg/Kg-dry	1	11/13/2018
cis-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	11/13/2018
trans-1,3-Dichloropropene	ND	0.0019		mg/Kg-dry	1	11/13/2018
Ethylbenzene	ND	0.0048		mg/Kg-dry	1	11/13/2018
2-Hexanone	ND	0.019		mg/Kg-dry	1	11/13/2018
4-Methyl-2-pentanone	ND	0.019		mg/Kg-dry	1	11/13/2018
Methylene chloride	ND	0.0095		mg/Kg-dry	1	11/13/2018
Methyl tert-butyl ether	ND	0.0048		mg/Kg-dry	1	11/13/2018
Styrene	ND	0.0048		mg/Kg-dry	1	11/13/2018
1,1,2,2-Tetrachloroethane	ND	0.0048		mg/Kg-dry	1	11/13/2018
Tetrachloroethene	ND	0.0048		mg/Kg-dry	1	11/13/2018
Toluene	ND	0.0048		mg/Kg-dry	1	11/13/2018
1,1,1-Trichloroethane	ND	0.0048		mg/Kg-dry	1	11/13/2018
1,1,2-Trichloroethane	ND	0.0048		mg/Kg-dry	1	11/13/2018
Trichloroethene	ND	0.0048		mg/Kg-dry	1	11/13/2018
Vinyl chloride	ND	0.0048		mg/Kg-dry	1	11/13/2018
Xylenes, Total	ND	0.014		mg/Kg-dry	1	11/13/2018
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: FP
Acenaphthene	ND	0.039		mg/Kg-dry	1	11/15/2018
Acenaphthylene	ND	0.039		mg/Kg-dry	1	11/15/2018

**Qualifiers:**  
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 S - Spike Recovery outside accepted recovery limits  
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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-012

**Client Sample ID:** B-113B (3-5)  
**Collection Date:** 11/12/2018 9:50:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: FP
Aniline	ND	0.39		mg/Kg-dry	1	11/15/2018
Anthracene	ND	0.039		mg/Kg-dry	1	11/15/2018
Benz(a)anthracene	ND	0.039		mg/Kg-dry	1	11/15/2018
Benzidine	ND	0.39		mg/Kg-dry	1	11/15/2018
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	11/15/2018
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	11/15/2018
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	11/15/2018
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	11/15/2018
Benzoic acid	ND	0.99		mg/Kg-dry	1	11/15/2018
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	11/15/2018
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	11/15/2018
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	11/15/2018
Bis(2-ethylhexyl)phthalate	ND	0.99		mg/Kg-dry	1	11/15/2018
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	11/15/2018
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	11/15/2018
Carbazole	ND	0.20		mg/Kg-dry	1	11/15/2018
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	11/15/2018
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	11/15/2018
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	11/15/2018
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	11/15/2018
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	11/15/2018
Chrysene	ND	0.039		mg/Kg-dry	1	11/15/2018
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	11/15/2018
Dibenzofuran	ND	0.20		mg/Kg-dry	1	11/15/2018
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/15/2018
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/15/2018
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/15/2018
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	11/15/2018
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	11/15/2018
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	11/15/2018
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	11/15/2018
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	11/15/2018
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	11/15/2018
2,4-Dinitrophenol	ND	0.99		mg/Kg-dry	1	11/15/2018
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	11/15/2018
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	11/15/2018
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	11/15/2018
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	11/15/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-012

**Client Sample ID:** B-113B (3-5)  
**Collection Date:** 11/12/2018 9:50:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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**Semivolatile Organic Compounds by GC/MS SW8270C (SW3550B) Prep Date: 11/14/2018 Analyst: FP**

Fluoranthene	ND	0.039		mg/Kg-dry	1	11/15/2018
Fluorene	ND	0.039		mg/Kg-dry	1	11/15/2018
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	11/15/2018
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	11/15/2018
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	11/15/2018
Hexachloroethane	ND	0.20		mg/Kg-dry	1	11/15/2018
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	11/15/2018
Isophorone	ND	0.20		mg/Kg-dry	1	11/15/2018
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	11/15/2018
2-Methylphenol	ND	0.20		mg/Kg-dry	1	11/15/2018
4-Methylphenol	ND	0.20		mg/Kg-dry	1	11/15/2018
Naphthalene	ND	0.039		mg/Kg-dry	1	11/15/2018
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/15/2018
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/15/2018
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/15/2018
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	11/15/2018
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	11/15/2018
Nitrobenzene	ND	0.039		mg/Kg-dry	1	11/15/2018
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	11/15/2018
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	11/15/2018
N-Nitrosodiphenylamine	ND	0.039		mg/Kg-dry	1	11/15/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	11/15/2018
Pentachlorophenol	ND	0.039		mg/Kg-dry	1	11/15/2018
Phenanthrene	ND	0.039		mg/Kg-dry	1	11/15/2018
Phenol	ND	0.20		mg/Kg-dry	1	11/15/2018
Pyrene	ND	0.039		mg/Kg-dry	1	11/15/2018
Pyridine	ND	0.80		mg/Kg-dry	1	11/15/2018
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	11/15/2018
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	11/15/2018
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	11/15/2018

**PCBs SW8082A (SW3550B) Prep Date: 11/15/2018 Analyst: GVC**

Aroclor 1016	ND	0.094		mg/Kg-dry	1	11/15/2018
Aroclor 1221	ND	0.094		mg/Kg-dry	1	11/15/2018
Aroclor 1232	ND	0.094		mg/Kg-dry	1	11/15/2018
Aroclor 1242	ND	0.094		mg/Kg-dry	1	11/15/2018
Aroclor 1248	ND	0.094		mg/Kg-dry	1	11/15/2018
Aroclor 1254	ND	0.094		mg/Kg-dry	1	11/15/2018
Aroclor 1260	ND	0.094		mg/Kg-dry	1	11/15/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-012

**Client Sample ID:** B-113B (3-5)  
**Collection Date:** 11/12/2018 9:50:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Pesticides</b>		<b>SW8081B (SW3550B)</b>		Prep Date: 11/15/2018		Analyst: GVC
4,4'-DDD	ND	0.0019		mg/Kg-dry	1	11/15/2018
4,4'-DDE	ND	0.0019		mg/Kg-dry	1	11/15/2018
4,4'-DDT	ND	0.0019		mg/Kg-dry	1	11/15/2018
Aldrin	ND	0.0019		mg/Kg-dry	1	11/15/2018
alpha-BHC	ND	0.0019		mg/Kg-dry	1	11/15/2018
alpha-Chlordane	ND	0.0019		mg/Kg-dry	1	11/15/2018
beta-BHC	ND	0.0019		mg/Kg-dry	1	11/15/2018
Chlordane	ND	0.019		mg/Kg-dry	1	11/15/2018
delta-BHC	ND	0.0019		mg/Kg-dry	1	11/15/2018
Dieldrin	ND	0.0019		mg/Kg-dry	1	11/15/2018
Endosulfan I	ND	0.0019		mg/Kg-dry	1	11/15/2018
Endosulfan II	ND	0.0019		mg/Kg-dry	1	11/15/2018
Endosulfan sulfate	ND	0.0019		mg/Kg-dry	1	11/15/2018
Endrin	ND	0.0019		mg/Kg-dry	1	11/15/2018
Endrin aldehyde	ND	0.0019		mg/Kg-dry	1	11/15/2018
Endrin ketone	ND	0.0019		mg/Kg-dry	1	11/15/2018
gamma-BHC	ND	0.0019		mg/Kg-dry	1	11/15/2018
gamma-Chlordane	ND	0.0019		mg/Kg-dry	1	11/15/2018
Heptachlor	ND	0.0019		mg/Kg-dry	1	11/15/2018
Heptachlor epoxide	ND	0.0019		mg/Kg-dry	1	11/15/2018
Methoxychlor	ND	0.0019		mg/Kg-dry	1	11/15/2018
Toxaphene	ND	0.039		mg/Kg-dry	1	11/15/2018
<b>Total Petroleum Hydrocarbons</b>		<b>SW8015M (SW3580A)</b>		Prep Date: 11/13/2018		Analyst: GVC
TPH (GRO)	ND	23		mg/Kg-dry	1	11/14/2018
TPH (DRO)	ND	23		mg/Kg-dry	1	11/14/2018
TPH (ERO)	ND	23	*	mg/Kg-dry	1	11/14/2018
<b>Metals by ICP/MS</b>		<b>SW6020A (SW3050B)</b>		Prep Date: 11/14/2018		Analyst: JG
Aluminum	7800	21		mg/Kg-dry	10	11/16/2018
Antimony	ND	2.1		mg/Kg-dry	10	11/16/2018
Arsenic	11	1.1		mg/Kg-dry	10	11/16/2018
Barium	58	1.1		mg/Kg-dry	10	11/16/2018
Beryllium	ND	0.53		mg/Kg-dry	10	11/16/2018
Cadmium	ND	0.53		mg/Kg-dry	10	11/16/2018
Calcium	4400	64		mg/Kg-dry	10	11/16/2018
Chromium	15	1.1		mg/Kg-dry	10	11/16/2018
Cobalt	8.1	1.1		mg/Kg-dry	10	11/16/2018
Copper	12	2.7		mg/Kg-dry	10	11/16/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-012

**Client Sample ID:** B-113B (3-5)  
**Collection Date:** 11/12/2018 9:50:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020A (SW3050B)</b>		Prep Date: 11/14/2018 Analyst: JG			
Iron	17000	32		mg/Kg-dry	10	11/16/2018
Lead	12	0.53		mg/Kg-dry	10	11/16/2018
Magnesium	3600	32		mg/Kg-dry	10	11/16/2018
Manganese	210	1.1		mg/Kg-dry	10	11/16/2018
Nickel	14	1.1		mg/Kg-dry	10	11/16/2018
Potassium	650	32		mg/Kg-dry	10	11/16/2018
Selenium	ND	1.1		mg/Kg-dry	10	11/16/2018
Silver	ND	1.1		mg/Kg-dry	10	11/16/2018
Sodium	ND	64		mg/Kg-dry	10	11/16/2018
Thallium	ND	1.1		mg/Kg-dry	10	11/16/2018
Vanadium	38	1.1		mg/Kg-dry	10	11/16/2018
Zinc	40	5.3		mg/Kg-dry	10	11/16/2018
<b>Mercury</b>	<b>SW7471B</b>		Prep Date: 11/15/2018 Analyst: LB			
Mercury	ND	0.023		mg/Kg-dry	1	11/16/2018
<b>Cyanide, Total</b>	<b>SW9012A</b>		Prep Date: 11/19/2018 Analyst: JTB			
Cyanide	ND	0.30		mg/Kg-dry	1	11/19/2018
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: 11/15/2018 Analyst: JTB			
pH	7.86			pH Units	1	11/16/2018
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: 11/15/2018 Analyst: RW			
Percent Moisture	16.1	0.2	*	wt%	1	11/16/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-013

**Client Sample ID:** B-103B (1-3)  
**Collection Date:** 11/12/2018 9:15:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: FP
Acenaphthene	ND	0.038		mg/Kg-dry	1	11/15/2018
Acenaphthylene	ND	0.038		mg/Kg-dry	1	11/15/2018
Aniline	ND	0.38		mg/Kg-dry	1	11/15/2018
Anthracene	ND	0.038		mg/Kg-dry	1	11/15/2018
Benz(a)anthracene	0.081	0.038		mg/Kg-dry	1	11/15/2018
Benzidine	ND	0.38		mg/Kg-dry	1	11/15/2018
Benzo(a)pyrene	0.10	0.038		mg/Kg-dry	1	11/15/2018
Benzo(b)fluoranthene	0.11	0.038		mg/Kg-dry	1	11/15/2018
Benzo(g,h,i)perylene	0.091	0.038		mg/Kg-dry	1	11/15/2018
Benzo(k)fluoranthene	0.089	0.038		mg/Kg-dry	1	11/15/2018
Benzoic acid	ND	0.96		mg/Kg-dry	1	11/15/2018
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	11/15/2018
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	11/15/2018
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	11/15/2018
Bis(2-ethylhexyl)phthalate	ND	0.96		mg/Kg-dry	1	11/15/2018
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	11/15/2018
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	11/15/2018
Carbazole	ND	0.20		mg/Kg-dry	1	11/15/2018
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	11/15/2018
4-Chloro-3-methylphenol	ND	0.38		mg/Kg-dry	1	11/15/2018
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	11/15/2018
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	11/15/2018
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	11/15/2018
Chrysene	0.11	0.038		mg/Kg-dry	1	11/15/2018
Dibenz(a,h)anthracene	0.040	0.038		mg/Kg-dry	1	11/15/2018
Dibenzofuran	ND	0.20		mg/Kg-dry	1	11/15/2018
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/15/2018
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/15/2018
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/15/2018
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	11/15/2018
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	11/15/2018
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	11/15/2018
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	11/15/2018
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	11/15/2018
4,6-Dinitro-2-methylphenol	ND	0.38		mg/Kg-dry	1	11/15/2018
2,4-Dinitrophenol	ND	0.96		mg/Kg-dry	1	11/15/2018
2,4-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	11/15/2018
2,6-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	11/15/2018

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**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-013

**Client Sample ID:** B-103B (1-3)  
**Collection Date:** 11/12/2018 9:15:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>						
	<b>SW8270C (SW3550B)</b>					Prep Date: 11/14/2018 Analyst: FP
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	11/15/2018
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	11/15/2018
Fluoranthene	0.14	0.038		mg/Kg-dry	1	11/15/2018
Fluorene	ND	0.038		mg/Kg-dry	1	11/15/2018
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	11/15/2018
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	11/15/2018
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	11/15/2018
Hexachloroethane	ND	0.20		mg/Kg-dry	1	11/15/2018
Indeno(1,2,3-cd)pyrene	0.079	0.038		mg/Kg-dry	1	11/15/2018
Isophorone	ND	0.20		mg/Kg-dry	1	11/15/2018
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	11/15/2018
2-Methylphenol	ND	0.20		mg/Kg-dry	1	11/15/2018
4-Methylphenol	ND	0.20		mg/Kg-dry	1	11/15/2018
Naphthalene	ND	0.038		mg/Kg-dry	1	11/15/2018
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/15/2018
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/15/2018
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/15/2018
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	11/15/2018
4-Nitrophenol	ND	0.38		mg/Kg-dry	1	11/15/2018
Nitrobenzene	ND	0.038		mg/Kg-dry	1	11/15/2018
N-Nitrosodi-n-propylamine	ND	0.038		mg/Kg-dry	1	11/15/2018
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	11/15/2018
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	11/15/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	11/15/2018
Pentachlorophenol	ND	0.077		mg/Kg-dry	1	11/15/2018
Phenanthrene	0.045	0.038		mg/Kg-dry	1	11/15/2018
Phenol	ND	0.20		mg/Kg-dry	1	11/15/2018
Pyrene	0.15	0.038		mg/Kg-dry	1	11/15/2018
Pyridine	ND	0.77		mg/Kg-dry	1	11/15/2018
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	11/15/2018
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	11/15/2018
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	11/15/2018
<b>Pesticides</b>						
	<b>SW8081B (SW3550B)</b>					Prep Date: 11/15/2018 Analyst: GVC
4,4'-DDD	ND	0.0018		mg/Kg-dry	1	11/15/2018
4,4'-DDE	ND	0.0018		mg/Kg-dry	1	11/15/2018
4,4'-DDT	ND	0.0018		mg/Kg-dry	1	11/15/2018
Aldrin	ND	0.0018		mg/Kg-dry	1	11/15/2018
alpha-BHC	ND	0.0018		mg/Kg-dry	1	11/15/2018

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

**Qualifiers:**

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-013

**Client Sample ID:** B-103B (1-3)  
**Collection Date:** 11/12/2018 9:15:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Pesticides</b>						
	<b>SW8081B (SW3550B)</b>				Prep Date: 11/15/2018	Analyst: GVC
alpha-Chlordane	ND	0.0018		mg/Kg-dry	1	11/15/2018
beta-BHC	ND	0.0018		mg/Kg-dry	1	11/15/2018
Chlordane	ND	0.018		mg/Kg-dry	1	11/15/2018
delta-BHC	ND	0.0018		mg/Kg-dry	1	11/15/2018
Dieldrin	ND	0.0018		mg/Kg-dry	1	11/15/2018
Endosulfan I	ND	0.0018		mg/Kg-dry	1	11/15/2018
Endosulfan II	ND	0.0018		mg/Kg-dry	1	11/15/2018
Endosulfan sulfate	ND	0.0018		mg/Kg-dry	1	11/15/2018
Endrin	ND	0.0018		mg/Kg-dry	1	11/15/2018
Endrin aldehyde	ND	0.0018		mg/Kg-dry	1	11/15/2018
Endrin ketone	ND	0.0018		mg/Kg-dry	1	11/15/2018
gamma-BHC	ND	0.0018		mg/Kg-dry	1	11/15/2018
gamma-Chlordane	ND	0.0018		mg/Kg-dry	1	11/15/2018
Heptachlor	ND	0.0018		mg/Kg-dry	1	11/15/2018
Heptachlor epoxide	ND	0.0018		mg/Kg-dry	1	11/15/2018
Methoxychlor	ND	0.0018		mg/Kg-dry	1	11/15/2018
Toxaphene	ND	0.038		mg/Kg-dry	1	11/15/2018
<b>Metals by ICP/MS</b>						
	<b>SW6020A (SW3050B)</b>				Prep Date: 11/14/2018	Analyst: JG
Arsenic	25	0.96		mg/Kg-dry	10	11/16/2018
Barium	260	0.96		mg/Kg-dry	10	11/16/2018
Cadmium	1.4	0.48		mg/Kg-dry	10	11/16/2018
Chromium	16	0.96		mg/Kg-dry	10	11/16/2018
Iron	33000	29		mg/Kg-dry	10	11/16/2018
Lead	140	0.48		mg/Kg-dry	10	11/16/2018
Selenium	1.1	0.96		mg/Kg-dry	10	11/16/2018
Silver	ND	0.96		mg/Kg-dry	10	11/16/2018
<b>Mercury</b>						
	<b>SW7471B</b>				Prep Date: 11/15/2018	Analyst: LB
Mercury	0.023	0.022		mg/Kg-dry	1	11/16/2018
<b>pH (25 °C)</b>						
	<b>SW9045C</b>				Prep Date: 11/15/2018	Analyst: JTB
pH	7.81			pH Units	1	11/16/2018
<b>Percent Moisture</b>						
	<b>D2974</b>				Prep Date: 11/15/2018	Analyst: RW
Percent Moisture	13.4	0.2	*	wt%	1	11/16/2018

**Qualifiers:**  
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 HT - Sample received past holding time  
 \* - Non-accredited parameter

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 S - Spike Recovery outside accepted recovery limits  
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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

Client: Carnow, Conibear, & Associates  
 Work Order: 18110408 Revision 4  
 Project: Firestation 115 B, 119th & Morgan St.  
 Lab ID: 18110408-014

Client Sample ID: B-103B (3-5)  
 Collection Date: 11/12/2018 9:20:00 AM  
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: FP
Acenaphthene	ND	0.040		mg/Kg-dry	1	11/15/2018
Acenaphthylene	ND	0.040		mg/Kg-dry	1	11/15/2018
Aniline	ND	0.40		mg/Kg-dry	1	11/15/2018
Anthracene	ND	0.040		mg/Kg-dry	1	11/15/2018
Benz(a)anthracene	ND	0.040		mg/Kg-dry	1	11/15/2018
Benzidine	ND	0.40		mg/Kg-dry	1	11/15/2018
Benzo(a)pyrene	ND	0.040		mg/Kg-dry	1	11/15/2018
Benzo(b)fluoranthene	ND	0.040		mg/Kg-dry	1	11/15/2018
Benzo(g,h,i)perylene	ND	0.040		mg/Kg-dry	1	11/15/2018
Benzo(k)fluoranthene	ND	0.040		mg/Kg-dry	1	11/15/2018
Benzoic acid	ND	1.0		mg/Kg-dry	1	11/15/2018
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	11/15/2018
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	11/15/2018
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	11/15/2018
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg-dry	1	11/15/2018
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	11/15/2018
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	11/15/2018
Carbazole	ND	0.20		mg/Kg-dry	1	11/15/2018
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	11/15/2018
4-Chloro-3-methylphenol	ND	0.40		mg/Kg-dry	1	11/15/2018
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	11/15/2018
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	11/15/2018
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	11/15/2018
Chrysene	ND	0.040		mg/Kg-dry	1	11/15/2018
Dibenz(a,h)anthracene	ND	0.040		mg/Kg-dry	1	11/15/2018
Dibenzofuran	ND	0.20		mg/Kg-dry	1	11/15/2018
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/15/2018
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/15/2018
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/15/2018
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	11/15/2018
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	11/15/2018
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	11/15/2018
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	11/15/2018
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	11/15/2018
4,6-Dinitro-2-methylphenol	ND	0.40		mg/Kg-dry	1	11/15/2018
2,4-Dinitrophenol	ND	1.0		mg/Kg-dry	1	11/15/2018
2,4-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	11/15/2018
2,6-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	11/15/2018

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-014

**Client Sample ID:** B-103B (3-5)  
**Collection Date:** 11/12/2018 9:20:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>						
	<b>SW8270C (SW3550B)</b>					Prep Date: 11/14/2018 Analyst: FP
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	11/15/2018
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	11/15/2018
Fluoranthene	ND	0.040		mg/Kg-dry	1	11/15/2018
Fluorene	ND	0.040		mg/Kg-dry	1	11/15/2018
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	11/15/2018
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	11/15/2018
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	11/15/2018
Hexachloroethane	ND	0.20		mg/Kg-dry	1	11/15/2018
Indeno(1,2,3-cd)pyrene	ND	0.040		mg/Kg-dry	1	11/15/2018
Isophorone	ND	0.20		mg/Kg-dry	1	11/15/2018
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	11/15/2018
2-Methylphenol	ND	0.20		mg/Kg-dry	1	11/15/2018
4-Methylphenol	ND	0.20		mg/Kg-dry	1	11/15/2018
Naphthalene	ND	0.040		mg/Kg-dry	1	11/15/2018
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/15/2018
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/15/2018
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/15/2018
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	11/15/2018
4-Nitrophenol	ND	0.40		mg/Kg-dry	1	11/15/2018
Nitrobenzene	ND	0.040		mg/Kg-dry	1	11/15/2018
N-Nitrosodi-n-propylamine	ND	0.040		mg/Kg-dry	1	11/15/2018
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	11/15/2018
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	11/15/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	11/15/2018
Pentachlorophenol	ND	0.081		mg/Kg-dry	1	11/15/2018
Phenanthrene	ND	0.040		mg/Kg-dry	1	11/15/2018
Phenol	ND	0.20		mg/Kg-dry	1	11/15/2018
Pyrene	ND	0.040		mg/Kg-dry	1	11/15/2018
Pyridine	ND	0.81		mg/Kg-dry	1	11/15/2018
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	11/15/2018
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	11/15/2018
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	11/15/2018
<b>Pesticides</b>						
	<b>SW8081B (SW3550B)</b>					Prep Date: 11/15/2018 Analyst: GVC
4,4'-DDD	ND	0.0019		mg/Kg-dry	1	11/15/2018
4,4'-DDE	ND	0.0019		mg/Kg-dry	1	11/15/2018
4,4'-DDT	ND	0.0019		mg/Kg-dry	1	11/15/2018
Aldrin	ND	0.0019		mg/Kg-dry	1	11/15/2018
alpha-BHC	ND	0.0019		mg/Kg-dry	1	11/15/2018

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

**Qualifiers:**

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

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H - Holding time exceeded



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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-014

**Client Sample ID:** B-103B (3-5)  
**Collection Date:** 11/12/2018 9:20:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Pesticides</b>		<b>SW8081B (SW3550B)</b>		Prep Date: 11/15/2018		Analyst: GVC
alpha-Chlordane	ND	0.0019		mg/Kg-dry	1	11/15/2018
beta-BHC	ND	0.0019		mg/Kg-dry	1	11/15/2018
Chlordane	ND	0.019		mg/Kg-dry	1	11/15/2018
delta-BHC	ND	0.0019		mg/Kg-dry	1	11/15/2018
Dieldrin	ND	0.0019		mg/Kg-dry	1	11/15/2018
Endosulfan I	ND	0.0019		mg/Kg-dry	1	11/15/2018
Endosulfan II	ND	0.0019		mg/Kg-dry	1	11/15/2018
Endosulfan sulfate	ND	0.0019		mg/Kg-dry	1	11/15/2018
Endrin	ND	0.0019		mg/Kg-dry	1	11/15/2018
Endrin aldehyde	ND	0.0019		mg/Kg-dry	1	11/15/2018
Endrin ketone	ND	0.0019		mg/Kg-dry	1	11/15/2018
gamma-BHC	ND	0.0019		mg/Kg-dry	1	11/15/2018
gamma-Chlordane	ND	0.0019		mg/Kg-dry	1	11/15/2018
Heptachlor	ND	0.0019		mg/Kg-dry	1	11/15/2018
Heptachlor epoxide	ND	0.0019		mg/Kg-dry	1	11/15/2018
Methoxychlor	ND	0.0019		mg/Kg-dry	1	11/15/2018
Toxaphene	ND	0.039		mg/Kg-dry	1	11/15/2018
<b>Metals by ICP/MS</b>		<b>SW6020A (SW3050B)</b>		Prep Date: 11/14/2018		Analyst: JG
Arsenic	13	1.0		mg/Kg-dry	10	11/15/2018
Barium	28	1.0		mg/Kg-dry	10	11/15/2018
Cadmium	ND	0.52		mg/Kg-dry	10	11/15/2018
Chromium	12	1.0		mg/Kg-dry	10	11/15/2018
Lead	13	0.52		mg/Kg-dry	10	11/15/2018
Selenium	ND	1.0		mg/Kg-dry	10	11/15/2018
Silver	1.7	1.0		mg/Kg-dry	10	11/15/2018
<b>Mercury</b>		<b>SW7471B</b>		Prep Date: 11/15/2018		Analyst: LB
Mercury	ND	0.022		mg/Kg-dry	1	11/16/2018
<b>pH (25 °C)</b>		<b>SW9045C</b>		Prep Date: 11/15/2018		Analyst: JTB
pH	7.63			pH Units	1	11/16/2018
<b>Percent Moisture</b>		<b>D2974</b>		Prep Date: 11/15/2018		Analyst: RW
Percent Moisture	16.8	0.2	*	wt%	1	11/16/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

Client: Carnow, Conibear, & Associates  
 Work Order: 18110408 Revision 4  
 Project: Firestation 115 B, 119th & Morgan St.  
 Lab ID: 18110408-015

Client Sample ID: B-104B (1-3)  
 Collection Date: 11/12/2018 9:00:00 AM  
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: 11/13/2018		Analyst: MJK
Acetone	ND	0.12		mg/Kg-dry	1	11/13/2018
Benzene	ND	0.0079		mg/Kg-dry	1	11/13/2018
Bromodichloromethane	ND	0.0079		mg/Kg-dry	1	11/13/2018
Bromoform	ND	0.0079		mg/Kg-dry	1	11/13/2018
Bromomethane	ND	0.015		mg/Kg-dry	1	11/13/2018
2-Butanone	ND	0.12		mg/Kg-dry	1	11/13/2018
Carbon disulfide	ND	0.079		mg/Kg-dry	1	11/13/2018
Carbon tetrachloride	ND	0.0079		mg/Kg-dry	1	11/13/2018
Chlorobenzene	ND	0.0079		mg/Kg-dry	1	11/13/2018
Chloroethane	ND	0.015		mg/Kg-dry	1	11/13/2018
Chloroform	ND	0.0079		mg/Kg-dry	1	11/13/2018
Chloromethane	ND	0.015		mg/Kg-dry	1	11/13/2018
Dibromochloromethane	ND	0.0079		mg/Kg-dry	1	11/13/2018
1,1-Dichloroethane	ND	0.0079		mg/Kg-dry	1	11/13/2018
1,2-Dichloroethane	ND	0.0079		mg/Kg-dry	1	11/13/2018
1,1-Dichloroethene	ND	0.0079		mg/Kg-dry	1	11/13/2018
cis-1,2-Dichloroethene	ND	0.0079		mg/Kg-dry	1	11/13/2018
trans-1,2-Dichloroethene	ND	0.0079		mg/Kg-dry	1	11/13/2018
1,2-Dichloropropane	ND	0.0079		mg/Kg-dry	1	11/13/2018
cis-1,3-Dichloropropene	ND	0.0032		mg/Kg-dry	1	11/13/2018
trans-1,3-Dichloropropene	ND	0.0032		mg/Kg-dry	1	11/13/2018
Ethylbenzene	ND	0.0079		mg/Kg-dry	1	11/13/2018
2-Hexanone	ND	0.032		mg/Kg-dry	1	11/13/2018
4-Methyl-2-pentanone	ND	0.032		mg/Kg-dry	1	11/13/2018
Methylene chloride	ND	0.015		mg/Kg-dry	1	11/13/2018
Methyl tert-butyl ether	ND	0.0079		mg/Kg-dry	1	11/13/2018
Styrene	ND	0.0079		mg/Kg-dry	1	11/13/2018
1,1,2,2-Tetrachloroethane	ND	0.0079		mg/Kg-dry	1	11/13/2018
Tetrachloroethene	ND	0.0079		mg/Kg-dry	1	11/13/2018
Toluene	ND	0.0079		mg/Kg-dry	1	11/13/2018
1,1,1-Trichloroethane	ND	0.0079		mg/Kg-dry	1	11/13/2018
1,1,2-Trichloroethane	ND	0.0079		mg/Kg-dry	1	11/13/2018
Trichloroethene	ND	0.0079		mg/Kg-dry	1	11/13/2018
Vinyl chloride	ND	0.0079		mg/Kg-dry	1	11/13/2018
Xylenes, Total	ND	0.024		mg/Kg-dry	1	11/13/2018
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: FP
Acenaphthene	ND	0.042		mg/Kg-dry	1	11/15/2018
Acenaphthylene	ND	0.042		mg/Kg-dry	1	11/15/2018

**Qualifiers:**  
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 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-015

**Client Sample ID:** B-104B (1-3)  
**Collection Date:** 11/12/2018 9:00:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: FP
Aniline	ND	0.42		mg/Kg-dry	1	11/15/2018
Anthracene	0.11	0.042		mg/Kg-dry	1	11/15/2018
Benz(a)anthracene	0.58	0.042		mg/Kg-dry	1	11/15/2018
Benzidine	ND	0.42		mg/Kg-dry	1	11/15/2018
Benzo(a)pyrene	0.58	0.042		mg/Kg-dry	1	11/15/2018
Benzo(b)fluoranthene	0.55	0.042		mg/Kg-dry	1	11/15/2018
Benzo(g,h,i)perylene	0.43	0.042		mg/Kg-dry	1	11/15/2018
Benzo(k)fluoranthene	0.55	0.042		mg/Kg-dry	1	11/15/2018
Benzoic acid	ND	1.0		mg/Kg-dry	1	11/15/2018
Benzyl alcohol	ND	0.22		mg/Kg-dry	1	11/15/2018
Bis(2-chloroethoxy)methane	ND	0.22		mg/Kg-dry	1	11/15/2018
Bis(2-chloroethyl)ether	ND	0.22		mg/Kg-dry	1	11/15/2018
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg-dry	1	11/15/2018
4-Bromophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	11/15/2018
Butyl benzyl phthalate	ND	0.22		mg/Kg-dry	1	11/15/2018
Carbazole	ND	0.22		mg/Kg-dry	1	11/15/2018
4-Chloroaniline	ND	0.22		mg/Kg-dry	1	11/15/2018
4-Chloro-3-methylphenol	ND	0.42		mg/Kg-dry	1	11/15/2018
2-Chloronaphthalene	ND	0.22		mg/Kg-dry	1	11/15/2018
2-Chlorophenol	ND	0.22		mg/Kg-dry	1	11/15/2018
4-Chlorophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	11/15/2018
Chrysene	0.64	0.042		mg/Kg-dry	1	11/15/2018
Dibenz(a,h)anthracene	0.23	0.042		mg/Kg-dry	1	11/15/2018
Dibenzofuran	ND	0.22		mg/Kg-dry	1	11/15/2018
1,2-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	11/15/2018
1,3-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	11/15/2018
1,4-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	11/15/2018
3,3'-Dichlorobenzidine	ND	0.22		mg/Kg-dry	1	11/15/2018
2,4-Dichlorophenol	ND	0.22		mg/Kg-dry	1	11/15/2018
Diethyl phthalate	ND	0.22		mg/Kg-dry	1	11/15/2018
2,4-Dimethylphenol	ND	0.22		mg/Kg-dry	1	11/15/2018
Dimethyl phthalate	ND	0.22		mg/Kg-dry	1	11/15/2018
4,6-Dinitro-2-methylphenol	ND	0.42		mg/Kg-dry	1	11/15/2018
2,4-Dinitrophenol	ND	1.0		mg/Kg-dry	1	11/15/2018
2,4-Dinitrotoluene	ND	0.042		mg/Kg-dry	1	11/15/2018
2,6-Dinitrotoluene	ND	0.042		mg/Kg-dry	1	11/15/2018
Di-n-butyl phthalate	ND	0.22		mg/Kg-dry	1	11/15/2018
Di-n-octyl phthalate	ND	0.22		mg/Kg-dry	1	11/15/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-015

**Client Sample ID:** B-104B (1-3)  
**Collection Date:** 11/12/2018 9:00:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: FP
Fluoranthene	0.97	0.042		mg/Kg-dry	1	11/15/2018
Fluorene	ND	0.042		mg/Kg-dry	1	11/15/2018
Hexachlorobenzene	ND	0.22		mg/Kg-dry	1	11/15/2018
Hexachlorobutadiene	ND	0.22		mg/Kg-dry	1	11/15/2018
Hexachlorocyclopentadiene	ND	0.22		mg/Kg-dry	1	11/15/2018
Hexachloroethane	ND	0.22		mg/Kg-dry	1	11/15/2018
Indeno(1,2,3-cd)pyrene	0.40	0.042		mg/Kg-dry	1	11/15/2018
Isophorone	ND	0.22		mg/Kg-dry	1	11/15/2018
2-Methylnaphthalene	ND	0.22		mg/Kg-dry	1	11/15/2018
2-Methylphenol	ND	0.22		mg/Kg-dry	1	11/15/2018
4-Methylphenol	ND	0.22		mg/Kg-dry	1	11/15/2018
Naphthalene	ND	0.042		mg/Kg-dry	1	11/15/2018
2-Nitroaniline	ND	0.22		mg/Kg-dry	1	11/15/2018
3-Nitroaniline	ND	0.22		mg/Kg-dry	1	11/15/2018
4-Nitroaniline	ND	0.22		mg/Kg-dry	1	11/15/2018
2-Nitrophenol	ND	0.22		mg/Kg-dry	1	11/15/2018
4-Nitrophenol	ND	0.42		mg/Kg-dry	1	11/15/2018
Nitrobenzene	ND	0.042		mg/Kg-dry	1	11/15/2018
N-Nitrosodi-n-propylamine	ND	0.042		mg/Kg-dry	1	11/15/2018
N-Nitrosodimethylamine	ND	0.22		mg/Kg-dry	1	11/15/2018
N-Nitrosodiphenylamine	ND	0.22		mg/Kg-dry	1	11/15/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.22		mg/Kg-dry	1	11/15/2018
Pentachlorophenol	ND	0.084		mg/Kg-dry	1	11/15/2018
Phenanthrene	0.53	0.042		mg/Kg-dry	1	11/15/2018
Phenol	ND	0.22		mg/Kg-dry	1	11/15/2018
Pyrene	0.89	0.042		mg/Kg-dry	1	11/15/2018
Pyridine	ND	0.84		mg/Kg-dry	1	11/15/2018
1,2,4-Trichlorobenzene	ND	0.22		mg/Kg-dry	1	11/15/2018
2,4,5-Trichlorophenol	ND	0.22		mg/Kg-dry	1	11/15/2018
2,4,6-Trichlorophenol	ND	0.22		mg/Kg-dry	1	11/15/2018
<b>PCBs</b>		<b>SW8082A (SW3550B)</b>		Prep Date: 11/15/2018		Analyst: GVC
Aroclor 1016	ND	0.10		mg/Kg-dry	1	11/16/2018
Aroclor 1221	ND	0.10		mg/Kg-dry	1	11/16/2018
Aroclor 1232	ND	0.10		mg/Kg-dry	1	11/16/2018
Aroclor 1242	ND	0.10		mg/Kg-dry	1	11/16/2018
Aroclor 1248	ND	0.10		mg/Kg-dry	1	11/16/2018
Aroclor 1254	ND	0.10		mg/Kg-dry	1	11/16/2018
Aroclor 1260	ND	0.10		mg/Kg-dry	1	11/16/2018

ND - Not Detected at the Reporting Limit

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HT - Sample received past holding time

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-015

**Client Sample ID:** B-104B (1-3)  
**Collection Date:** 11/12/2018 9:00:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>						
	<b>SW6020A (SW3050B)</b>		Prep Date: 11/14/2018 Analyst: JG			
Arsenic	11	1.1		mg/Kg-dry	10	11/16/2018
Barium	650	1.1		mg/Kg-dry	10	11/16/2018
Cadmium	1.2	0.55		mg/Kg-dry	10	11/16/2018
Chromium	24	1.1		mg/Kg-dry	10	11/16/2018
Lead	930	0.55		mg/Kg-dry	10	11/16/2018
Selenium	ND	1.1		mg/Kg-dry	10	11/16/2018
Silver	ND	1.1		mg/Kg-dry	10	11/16/2018
<b>SPLP Metals by ICP/MS</b>						
	<b>SW1312/6020A (SW3005A)</b>		Prep Date: 11/24/2018 Analyst: JG			
Lead	0.042	0.0020		mg/L	2	11/26/2018
<b>TCLP Metals by ICP/MS</b>						
	<b>SW1311/6020A (SW3005A)</b>		Prep Date: 11/24/2018 Analyst: JG			
Lead	0.11	0.0050		mg/L	5	11/26/2018
<b>Mercury</b>						
	<b>SW7471B</b>		Prep Date: 11/15/2018 Analyst: LB			
Mercury	0.063	0.024		mg/Kg-dry	1	11/16/2018
<b>pH (25 °C)</b>						
	<b>SW9045C</b>		Prep Date: 11/15/2018 Analyst: JTB			
pH	7.87			pH Units	1	11/16/2018
<b>Percent Moisture</b>						
	<b>D2974</b>		Prep Date: 11/15/2018 Analyst: RW			
Percent Moisture	21.6	0.2	*	wt%	1	11/16/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

Client: Carnow, Conibear, & Associates  
 Work Order: 18110408 Revision 4  
 Project: Firestation 115 B, 119th & Morgan St.  
 Lab ID: 18110408-016

Client Sample ID: B-109B (1-3)  
 Collection Date: 11/12/2018 8:42:00 AM  
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: 11/13/2018		Analyst: MJK
Acetone	ND	0.23		mg/Kg-dry	1	11/14/2018
Benzene	ND	0.015		mg/Kg-dry	1	11/14/2018
Bromodichloromethane	ND	0.015		mg/Kg-dry	1	11/14/2018
Bromoform	ND	0.015		mg/Kg-dry	1	11/14/2018
Bromomethane	ND	0.030		mg/Kg-dry	1	11/14/2018
2-Butanone	ND	0.23		mg/Kg-dry	1	11/14/2018
Carbon disulfide	ND	0.15		mg/Kg-dry	1	11/14/2018
Carbon tetrachloride	ND	0.015		mg/Kg-dry	1	11/14/2018
Chlorobenzene	ND	0.015		mg/Kg-dry	1	11/14/2018
Chloroethane	ND	0.030		mg/Kg-dry	1	11/14/2018
Chloroform	ND	0.015		mg/Kg-dry	1	11/14/2018
Chloromethane	ND	0.030		mg/Kg-dry	1	11/14/2018
Dibromochloromethane	ND	0.015		mg/Kg-dry	1	11/14/2018
1,1-Dichloroethane	ND	0.015		mg/Kg-dry	1	11/14/2018
1,2-Dichloroethane	ND	0.015		mg/Kg-dry	1	11/14/2018
1,1-Dichloroethene	ND	0.015		mg/Kg-dry	1	11/14/2018
cis-1,2-Dichloroethene	ND	0.015		mg/Kg-dry	1	11/14/2018
trans-1,2-Dichloroethene	ND	0.015		mg/Kg-dry	1	11/14/2018
1,2-Dichloropropane	ND	0.015		mg/Kg-dry	1	11/14/2018
cis-1,3-Dichloropropene	ND	0.0060		mg/Kg-dry	1	11/14/2018
trans-1,3-Dichloropropene	ND	0.0060		mg/Kg-dry	1	11/14/2018
Ethylbenzene	ND	0.015		mg/Kg-dry	1	11/14/2018
2-Hexanone	ND	0.060		mg/Kg-dry	1	11/14/2018
4-Methyl-2-pentanone	ND	0.060		mg/Kg-dry	1	11/14/2018
Methylene chloride	ND	0.030		mg/Kg-dry	1	11/14/2018
Methyl tert-butyl ether	ND	0.015		mg/Kg-dry	1	11/14/2018
Styrene	ND	0.015		mg/Kg-dry	1	11/14/2018
1,1,2,2-Tetrachloroethane	ND	0.015		mg/Kg-dry	1	11/14/2018
Tetrachloroethene	ND	0.015		mg/Kg-dry	1	11/14/2018
Toluene	ND	0.015		mg/Kg-dry	1	11/14/2018
1,1,1-Trichloroethane	ND	0.015		mg/Kg-dry	1	11/14/2018
1,1,2-Trichloroethane	ND	0.015		mg/Kg-dry	1	11/14/2018
Trichloroethene	ND	0.015		mg/Kg-dry	1	11/14/2018
Vinyl chloride	ND	0.015		mg/Kg-dry	1	11/14/2018
Xylenes, Total	ND	0.045		mg/Kg-dry	1	11/14/2018
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: FP
Acenaphthene	ND	0.041		mg/Kg-dry	1	11/15/2018
Acenaphthylene	ND	0.041		mg/Kg-dry	1	11/15/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-016

**Client Sample ID:** B-109B (1-3)  
**Collection Date:** 11/12/2018 8:42:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: FP
Aniline	ND	0.41		mg/Kg-dry	1	11/15/2018
Anthracene	ND	0.041		mg/Kg-dry	1	11/15/2018
Benz(a)anthracene	ND	0.041		mg/Kg-dry	1	11/15/2018
Benzidine	ND	0.41		mg/Kg-dry	1	11/15/2018
Benzo(a)pyrene	ND	0.041		mg/Kg-dry	1	11/15/2018
Benzo(b)fluoranthene	ND	0.041		mg/Kg-dry	1	11/15/2018
Benzo(g,h,i)perylene	ND	0.041		mg/Kg-dry	1	11/15/2018
Benzo(k)fluoranthene	ND	0.041		mg/Kg-dry	1	11/15/2018
Benzoic acid	ND	1.0		mg/Kg-dry	1	11/15/2018
Benzyl alcohol	ND	0.21		mg/Kg-dry	1	11/15/2018
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	11/15/2018
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	11/15/2018
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg-dry	1	11/15/2018
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	11/15/2018
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	11/15/2018
Carbazole	ND	0.21		mg/Kg-dry	1	11/15/2018
4-Chloroaniline	ND	0.21		mg/Kg-dry	1	11/15/2018
4-Chloro-3-methylphenol	ND	0.41		mg/Kg-dry	1	11/15/2018
2-Chloronaphthalene	ND	0.21		mg/Kg-dry	1	11/15/2018
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	11/15/2018
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	11/15/2018
Chrysene	ND	0.041		mg/Kg-dry	1	11/15/2018
Dibenz(a,h)anthracene	ND	0.041		mg/Kg-dry	1	11/15/2018
Dibenzofuran	ND	0.21		mg/Kg-dry	1	11/15/2018
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	11/15/2018
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	11/15/2018
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	11/15/2018
3,3'-Dichlorobenzidine	ND	0.21		mg/Kg-dry	1	11/15/2018
2,4-Dichlorophenol	ND	0.21		mg/Kg-dry	1	11/15/2018
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	11/15/2018
2,4-Dimethylphenol	ND	0.21		mg/Kg-dry	1	11/15/2018
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	11/15/2018
4,6-Dinitro-2-methylphenol	ND	0.41		mg/Kg-dry	1	11/15/2018
2,4-Dinitrophenol	ND	1.0		mg/Kg-dry	1	11/15/2018
2,4-Dinitrotoluene	ND	0.041		mg/Kg-dry	1	11/15/2018
2,6-Dinitrotoluene	ND	0.041		mg/Kg-dry	1	11/15/2018
Di-n-butyl phthalate	ND	0.21		mg/Kg-dry	1	11/15/2018
Di-n-octyl phthalate	ND	0.21		mg/Kg-dry	1	11/15/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-016

**Client Sample ID:** B-109B (1-3)  
**Collection Date:** 11/12/2018 8:42:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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**Semivolatile Organic Compounds by GC/MS SW8270C (SW3550B) Prep Date: 11/14/2018 Analyst: FP**

Fluoranthene	ND	0.041		mg/Kg-dry	1	11/15/2018
Fluorene	ND	0.041		mg/Kg-dry	1	11/15/2018
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	11/15/2018
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	11/15/2018
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	11/15/2018
Hexachloroethane	ND	0.21		mg/Kg-dry	1	11/15/2018
Indeno(1,2,3-cd)pyrene	ND	0.041		mg/Kg-dry	1	11/15/2018
Isophorone	ND	0.21		mg/Kg-dry	1	11/15/2018
2-Methylnaphthalene	ND	0.21		mg/Kg-dry	1	11/15/2018
2-Methylphenol	ND	0.21		mg/Kg-dry	1	11/15/2018
4-Methylphenol	ND	0.21		mg/Kg-dry	1	11/15/2018
Naphthalene	ND	0.041		mg/Kg-dry	1	11/15/2018
2-Nitroaniline	ND	0.21		mg/Kg-dry	1	11/15/2018
3-Nitroaniline	ND	0.21		mg/Kg-dry	1	11/15/2018
4-Nitroaniline	ND	0.21		mg/Kg-dry	1	11/15/2018
2-Nitrophenol	ND	0.21		mg/Kg-dry	1	11/15/2018
4-Nitrophenol	ND	0.41		mg/Kg-dry	1	11/15/2018
Nitrobenzene	ND	0.041		mg/Kg-dry	1	11/15/2018
N-Nitrosodi-n-propylamine	ND	0.041		mg/Kg-dry	1	11/15/2018
N-Nitrosodimethylamine	ND	0.21		mg/Kg-dry	1	11/15/2018
N-Nitrosodiphenylamine	ND	0.21		mg/Kg-dry	1	11/15/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.21		mg/Kg-dry	1	11/15/2018
Pentachlorophenol	ND	0.082		mg/Kg-dry	1	11/15/2018
Phenanthrene	ND	0.041		mg/Kg-dry	1	11/15/2018
Phenol	ND	0.21		mg/Kg-dry	1	11/15/2018
Pyrene	ND	0.041		mg/Kg-dry	1	11/15/2018
Pyridine	ND	0.82		mg/Kg-dry	1	11/15/2018
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	1	11/15/2018
2,4,5-Trichlorophenol	ND	0.21		mg/Kg-dry	1	11/15/2018
2,4,6-Trichlorophenol	ND	0.21		mg/Kg-dry	1	11/15/2018

**PCBs SW8082A (SW3550B) Prep Date: 11/15/2018 Analyst: GVC**

Aroclor 1016	ND	0.099		mg/Kg-dry	1	11/16/2018
Aroclor 1221	ND	0.099		mg/Kg-dry	1	11/16/2018
Aroclor 1232	ND	0.099		mg/Kg-dry	1	11/16/2018
Aroclor 1242	ND	0.099		mg/Kg-dry	1	11/16/2018
Aroclor 1248	ND	0.099		mg/Kg-dry	1	11/16/2018
Aroclor 1254	ND	0.099		mg/Kg-dry	1	11/16/2018
Aroclor 1260	ND	0.099		mg/Kg-dry	1	11/16/2018

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

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 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-016

**Client Sample ID:** B-109B (1-3)  
**Collection Date:** 11/12/2018 8:42:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020A (SW3050B)</b>		Prep Date: 11/14/2018		Analyst: JG	
Arsenic	7.3	1.1		mg/Kg-dry	10	11/16/2018
Barium	75	1.1		mg/Kg-dry	10	11/16/2018
Cadmium	ND	0.55		mg/Kg-dry	10	11/16/2018
Chromium	14	1.1		mg/Kg-dry	10	11/16/2018
Lead	170	0.55		mg/Kg-dry	10	11/16/2018
Selenium	ND	1.1		mg/Kg-dry	10	11/16/2018
Silver	ND	1.1		mg/Kg-dry	10	11/16/2018
<b>Mercury</b>	<b>SW7471B</b>		Prep Date: 11/15/2018		Analyst: LB	
Mercury	ND	0.021		mg/Kg-dry	1	11/16/2018
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: 11/15/2018		Analyst: RW	
pH	7.68			pH Units	1	11/15/2018
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: 11/15/2018		Analyst: RW	
Percent Moisture	20.0	0.2	*	wt%	1	11/16/2018

**Qualifiers:**

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 HT - Sample received past holding time  
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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-017

**Client Sample ID:** B-109B (3-5)  
**Collection Date:** 11/12/2018 8:48:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: 11/13/2018		Analyst: MJK
Acetone	ND	0.12		mg/Kg-dry	1	11/14/2018
Benzene	ND	0.0082		mg/Kg-dry	1	11/14/2018
Bromodichloromethane	ND	0.0082		mg/Kg-dry	1	11/14/2018
Bromoform	ND	0.0082		mg/Kg-dry	1	11/14/2018
Bromomethane	ND	0.017		mg/Kg-dry	1	11/14/2018
2-Butanone	ND	0.12		mg/Kg-dry	1	11/14/2018
Carbon disulfide	ND	0.082		mg/Kg-dry	1	11/14/2018
Carbon tetrachloride	ND	0.0082		mg/Kg-dry	1	11/14/2018
Chlorobenzene	ND	0.0082		mg/Kg-dry	1	11/14/2018
Chloroethane	ND	0.017		mg/Kg-dry	1	11/14/2018
Chloroform	ND	0.0082		mg/Kg-dry	1	11/14/2018
Chloromethane	ND	0.017		mg/Kg-dry	1	11/14/2018
Dibromochloromethane	ND	0.0082		mg/Kg-dry	1	11/14/2018
1,1-Dichloroethane	ND	0.0082		mg/Kg-dry	1	11/14/2018
1,2-Dichloroethane	ND	0.0082		mg/Kg-dry	1	11/14/2018
1,1-Dichloroethene	ND	0.0082		mg/Kg-dry	1	11/14/2018
cis-1,2-Dichloroethene	ND	0.0082		mg/Kg-dry	1	11/14/2018
trans-1,2-Dichloroethene	ND	0.0082		mg/Kg-dry	1	11/14/2018
1,2-Dichloropropane	ND	0.0082		mg/Kg-dry	1	11/14/2018
cis-1,3-Dichloropropene	ND	0.0033		mg/Kg-dry	1	11/14/2018
trans-1,3-Dichloropropene	ND	0.0033		mg/Kg-dry	1	11/14/2018
Ethylbenzene	ND	0.0082		mg/Kg-dry	1	11/14/2018
2-Hexanone	ND	0.033		mg/Kg-dry	1	11/14/2018
4-Methyl-2-pentanone	ND	0.033		mg/Kg-dry	1	11/14/2018
Methylene chloride	ND	0.017		mg/Kg-dry	1	11/14/2018
Methyl tert-butyl ether	ND	0.0082		mg/Kg-dry	1	11/14/2018
Styrene	ND	0.0082		mg/Kg-dry	1	11/14/2018
1,1,2,2-Tetrachloroethane	ND	0.0082		mg/Kg-dry	1	11/14/2018
Tetrachloroethene	ND	0.0082		mg/Kg-dry	1	11/14/2018
Toluene	ND	0.0082		mg/Kg-dry	1	11/14/2018
1,1,1-Trichloroethane	ND	0.0082		mg/Kg-dry	1	11/14/2018
1,1,2-Trichloroethane	ND	0.0082		mg/Kg-dry	1	11/14/2018
Trichloroethene	ND	0.0082		mg/Kg-dry	1	11/14/2018
Vinyl chloride	ND	0.0082		mg/Kg-dry	1	11/14/2018
Xylenes, Total	ND	0.024		mg/Kg-dry	1	11/14/2018
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: FP
Acenaphthene	ND	0.042		mg/Kg-dry	1	11/15/2018
Acenaphthylene	ND	0.042		mg/Kg-dry	1	11/15/2018

**Qualifiers:**  
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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-017

**Client Sample ID:** B-109B (3-5)  
**Collection Date:** 11/12/2018 8:48:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: FP
Aniline	ND	0.42		mg/Kg-dry	1	11/15/2018
Anthracene	ND	0.042		mg/Kg-dry	1	11/15/2018
Benz(a)anthracene	ND	0.042		mg/Kg-dry	1	11/15/2018
Benzidine	ND	0.42		mg/Kg-dry	1	11/15/2018
Benzo(a)pyrene	ND	0.042		mg/Kg-dry	1	11/15/2018
Benzo(b)fluoranthene	ND	0.042		mg/Kg-dry	1	11/15/2018
Benzo(g,h,i)perylene	ND	0.042		mg/Kg-dry	1	11/15/2018
Benzo(k)fluoranthene	ND	0.042		mg/Kg-dry	1	11/15/2018
Benzoic acid	ND	1.1		mg/Kg-dry	1	11/15/2018
Benzyl alcohol	ND	0.22		mg/Kg-dry	1	11/15/2018
Bis(2-chloroethoxy)methane	ND	0.22		mg/Kg-dry	1	11/15/2018
Bis(2-chloroethyl)ether	ND	0.22		mg/Kg-dry	1	11/15/2018
Bis(2-ethylhexyl)phthalate	ND	1.1		mg/Kg-dry	1	11/15/2018
4-Bromophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	11/15/2018
Butyl benzyl phthalate	ND	0.22		mg/Kg-dry	1	11/15/2018
Carbazole	ND	0.22		mg/Kg-dry	1	11/15/2018
4-Chloroaniline	ND	0.22		mg/Kg-dry	1	11/15/2018
4-Chloro-3-methylphenol	ND	0.42		mg/Kg-dry	1	11/15/2018
2-Chloronaphthalene	ND	0.22		mg/Kg-dry	1	11/15/2018
2-Chlorophenol	ND	0.22		mg/Kg-dry	1	11/15/2018
4-Chlorophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	11/15/2018
Chrysene	ND	0.042		mg/Kg-dry	1	11/15/2018
Dibenz(a,h)anthracene	ND	0.042		mg/Kg-dry	1	11/15/2018
Dibenzofuran	ND	0.22		mg/Kg-dry	1	11/15/2018
1,2-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	11/15/2018
1,3-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	11/15/2018
1,4-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	11/15/2018
3,3'-Dichlorobenzidine	ND	0.22		mg/Kg-dry	1	11/15/2018
2,4-Dichlorophenol	ND	0.22		mg/Kg-dry	1	11/15/2018
Diethyl phthalate	ND	0.22		mg/Kg-dry	1	11/15/2018
2,4-Dimethylphenol	ND	0.22		mg/Kg-dry	1	11/15/2018
Dimethyl phthalate	ND	0.22		mg/Kg-dry	1	11/15/2018
4,6-Dinitro-2-methylphenol	ND	0.42		mg/Kg-dry	1	11/15/2018
2,4-Dinitrophenol	ND	1.1		mg/Kg-dry	1	11/15/2018
2,4-Dinitrotoluene	ND	0.042		mg/Kg-dry	1	11/15/2018
2,6-Dinitrotoluene	ND	0.042		mg/Kg-dry	1	11/15/2018
Di-n-butyl phthalate	ND	0.22		mg/Kg-dry	1	11/15/2018
Di-n-octyl phthalate	ND	0.22		mg/Kg-dry	1	11/15/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-017

**Client Sample ID:** B-109B (3-5)  
**Collection Date:** 11/12/2018 8:48:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: FP
Fluoranthene	ND	0.042		mg/Kg-dry	1	11/15/2018
Fluorene	ND	0.042		mg/Kg-dry	1	11/15/2018
Hexachlorobenzene	ND	0.22		mg/Kg-dry	1	11/15/2018
Hexachlorobutadiene	ND	0.22		mg/Kg-dry	1	11/15/2018
Hexachlorocyclopentadiene	ND	0.22		mg/Kg-dry	1	11/15/2018
Hexachloroethane	ND	0.22		mg/Kg-dry	1	11/15/2018
Indeno(1,2,3-cd)pyrene	ND	0.042		mg/Kg-dry	1	11/15/2018
Isophorone	ND	0.22		mg/Kg-dry	1	11/15/2018
2-Methylnaphthalene	ND	0.22		mg/Kg-dry	1	11/15/2018
2-Methylphenol	ND	0.22		mg/Kg-dry	1	11/15/2018
4-Methylphenol	ND	0.22		mg/Kg-dry	1	11/15/2018
Naphthalene	ND	0.042		mg/Kg-dry	1	11/15/2018
2-Nitroaniline	ND	0.22		mg/Kg-dry	1	11/15/2018
3-Nitroaniline	ND	0.22		mg/Kg-dry	1	11/15/2018
4-Nitroaniline	ND	0.22		mg/Kg-dry	1	11/15/2018
2-Nitrophenol	ND	0.22		mg/Kg-dry	1	11/15/2018
4-Nitrophenol	ND	0.42		mg/Kg-dry	1	11/15/2018
Nitrobenzene	ND	0.042		mg/Kg-dry	1	11/15/2018
N-Nitrosodi-n-propylamine	ND	0.042		mg/Kg-dry	1	11/15/2018
N-Nitrosodimethylamine	ND	0.22		mg/Kg-dry	1	11/15/2018
N-Nitrosodiphenylamine	ND	0.22		mg/Kg-dry	1	11/15/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.22		mg/Kg-dry	1	11/15/2018
Pentachlorophenol	ND	0.086		mg/Kg-dry	1	11/15/2018
Phenanthrene	ND	0.042		mg/Kg-dry	1	11/15/2018
Phenol	ND	0.22		mg/Kg-dry	1	11/15/2018
Pyrene	ND	0.042		mg/Kg-dry	1	11/15/2018
Pyridine	ND	0.86		mg/Kg-dry	1	11/15/2018
1,2,4-Trichlorobenzene	ND	0.22		mg/Kg-dry	1	11/15/2018
2,4,5-Trichlorophenol	ND	0.22		mg/Kg-dry	1	11/15/2018
2,4,6-Trichlorophenol	ND	0.22		mg/Kg-dry	1	11/15/2018
<b>PCBs</b>		<b>SW8082A (SW3550B)</b>		Prep Date: 11/15/2018		Analyst: GVC
Aroclor 1016	ND	0.10		mg/Kg-dry	1	11/16/2018
Aroclor 1221	ND	0.10		mg/Kg-dry	1	11/16/2018
Aroclor 1232	ND	0.10		mg/Kg-dry	1	11/16/2018
Aroclor 1242	ND	0.10		mg/Kg-dry	1	11/16/2018
Aroclor 1248	ND	0.10		mg/Kg-dry	1	11/16/2018
Aroclor 1254	ND	0.10		mg/Kg-dry	1	11/16/2018
Aroclor 1260	ND	0.10		mg/Kg-dry	1	11/16/2018

**Qualifiers:**  
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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-017

**Client Sample ID:** B-109B (3-5)  
**Collection Date:** 11/12/2018 8:48:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020A (SW3050B)</b>		Prep Date: 11/14/2018		Analyst: JG	
Arsenic	6.1	1.2		mg/Kg-dry	10	11/16/2018
Barium	62	1.2		mg/Kg-dry	10	11/16/2018
Cadmium	ND	0.58		mg/Kg-dry	10	11/16/2018
Chromium	14	1.2		mg/Kg-dry	10	11/16/2018
Lead	13	0.58		mg/Kg-dry	10	11/16/2018
Selenium	ND	1.2		mg/Kg-dry	10	11/16/2018
Silver	ND	1.2		mg/Kg-dry	10	11/16/2018
<b>Mercury</b>	<b>SW7471B</b>		Prep Date: 11/15/2018		Analyst: LB	
Mercury	ND	0.022		mg/Kg-dry	1	11/16/2018
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: 11/15/2018		Analyst: RW	
pH	7.70			pH Units	1	11/15/2018
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: 11/15/2018		Analyst: RW	
Percent Moisture	22.2	0.2	*	wt%	1	11/16/2018

**Qualifiers:**

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RL - Reporting / Quantitation Limit for the analysis  
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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

Client: Carnow, Conibear, & Associates  
 Work Order: 18110408 Revision 4  
 Project: Firestation 115 B, 119th & Morgan St.  
 Lab ID: 18110408-018

Client Sample ID: B-110B (1-3)  
 Collection Date: 11/12/2018 8:10:00 AM  
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: 11/13/2018		Analyst: MJK
Acetone	ND	0.075		mg/Kg-dry	1	11/14/2018
Benzene	ND	0.0049		mg/Kg-dry	1	11/14/2018
Bromodichloromethane	ND	0.0049		mg/Kg-dry	1	11/14/2018
Bromoform	ND	0.0049		mg/Kg-dry	1	11/14/2018
Bromomethane	ND	0.010		mg/Kg-dry	1	11/14/2018
2-Butanone	ND	0.075		mg/Kg-dry	1	11/14/2018
Carbon disulfide	ND	0.049		mg/Kg-dry	1	11/14/2018
Carbon tetrachloride	ND	0.0049		mg/Kg-dry	1	11/14/2018
Chlorobenzene	ND	0.0049		mg/Kg-dry	1	11/14/2018
Chloroethane	ND	0.010		mg/Kg-dry	1	11/14/2018
Chloroform	ND	0.0049		mg/Kg-dry	1	11/14/2018
Chloromethane	ND	0.010		mg/Kg-dry	1	11/14/2018
Dibromochloromethane	ND	0.0049		mg/Kg-dry	1	11/14/2018
1,1-Dichloroethane	ND	0.0049		mg/Kg-dry	1	11/14/2018
1,2-Dichloroethane	ND	0.0049		mg/Kg-dry	1	11/14/2018
1,1-Dichloroethene	ND	0.0049		mg/Kg-dry	1	11/14/2018
cis-1,2-Dichloroethene	ND	0.0049		mg/Kg-dry	1	11/14/2018
trans-1,2-Dichloroethene	ND	0.0049		mg/Kg-dry	1	11/14/2018
1,2-Dichloropropane	ND	0.0049		mg/Kg-dry	1	11/14/2018
cis-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	11/14/2018
trans-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	11/14/2018
Ethylbenzene	ND	0.0049		mg/Kg-dry	1	11/14/2018
2-Hexanone	ND	0.020		mg/Kg-dry	1	11/14/2018
4-Methyl-2-pentanone	ND	0.020		mg/Kg-dry	1	11/14/2018
Methylene chloride	ND	0.010		mg/Kg-dry	1	11/14/2018
Methyl tert-butyl ether	ND	0.0049		mg/Kg-dry	1	11/14/2018
Styrene	ND	0.0049		mg/Kg-dry	1	11/14/2018
1,1,2,2-Tetrachloroethane	ND	0.0049		mg/Kg-dry	1	11/14/2018
Tetrachloroethene	ND	0.0049		mg/Kg-dry	1	11/14/2018
Toluene	ND	0.0049		mg/Kg-dry	1	11/14/2018
1,1,1-Trichloroethane	ND	0.0049		mg/Kg-dry	1	11/14/2018
1,1,2-Trichloroethane	ND	0.0049		mg/Kg-dry	1	11/14/2018
Trichloroethene	ND	0.0049		mg/Kg-dry	1	11/14/2018
Vinyl chloride	ND	0.0049		mg/Kg-dry	1	11/14/2018
Xylenes, Total	ND	0.015		mg/Kg-dry	1	11/14/2018
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: FP
Acenaphthene	ND	0.039		mg/Kg-dry	1	11/16/2018
Acenaphthylene	ND	0.039		mg/Kg-dry	1	11/16/2018

**Qualifiers:**  
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 HT - Sample received past holding time  
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 S - Spike Recovery outside accepted recovery limits  
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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-018

**Client Sample ID:** B-110B (1-3)  
**Collection Date:** 11/12/2018 8:10:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: FP
Aniline	ND	0.39		mg/Kg-dry	1	11/16/2018
Anthracene	ND	0.039		mg/Kg-dry	1	11/16/2018
Benz(a)anthracene	ND	0.039		mg/Kg-dry	1	11/16/2018
Benzidine	ND	0.39		mg/Kg-dry	1	11/16/2018
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	11/16/2018
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	11/16/2018
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	11/16/2018
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	11/16/2018
Benzoic acid	ND	0.98		mg/Kg-dry	1	11/16/2018
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	11/16/2018
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	11/16/2018
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	11/16/2018
Bis(2-ethylhexyl)phthalate	ND	0.98		mg/Kg-dry	1	11/16/2018
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	11/16/2018
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	11/16/2018
Carbazole	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	11/16/2018
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	11/16/2018
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	11/16/2018
Chrysene	ND	0.039		mg/Kg-dry	1	11/16/2018
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	11/16/2018
Dibenzofuran	ND	0.20		mg/Kg-dry	1	11/16/2018
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/16/2018
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/16/2018
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/16/2018
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	11/16/2018
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	11/16/2018
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	11/16/2018
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	11/16/2018
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	11/16/2018
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	11/16/2018
2,4-Dinitrophenol	ND	0.98		mg/Kg-dry	1	11/16/2018
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	11/16/2018
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	11/16/2018
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	11/16/2018
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	11/16/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-018

**Client Sample ID:** B-110B (1-3)  
**Collection Date:** 11/12/2018 8:10:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: FP
Fluoranthene	ND	0.039		mg/Kg-dry	1	11/16/2018
Fluorene	ND	0.039		mg/Kg-dry	1	11/16/2018
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	11/16/2018
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	11/16/2018
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	11/16/2018
Hexachloroethane	ND	0.20		mg/Kg-dry	1	11/16/2018
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	11/16/2018
Isophorone	ND	0.20		mg/Kg-dry	1	11/16/2018
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	11/16/2018
2-Methylphenol	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Methylphenol	ND	0.20		mg/Kg-dry	1	11/16/2018
Naphthalene	ND	0.039		mg/Kg-dry	1	11/16/2018
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/16/2018
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/16/2018
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	11/16/2018
Nitrobenzene	ND	0.039		mg/Kg-dry	1	11/16/2018
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	11/16/2018
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	11/16/2018
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	11/16/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	11/16/2018
Pentachlorophenol	ND	0.079		mg/Kg-dry	1	11/16/2018
Phenanthrene	ND	0.039		mg/Kg-dry	1	11/16/2018
Phenol	ND	0.20		mg/Kg-dry	1	11/16/2018
Pyrene	ND	0.039		mg/Kg-dry	1	11/16/2018
Pyridine	ND	0.79		mg/Kg-dry	1	11/16/2018
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	11/16/2018
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	11/16/2018
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	11/16/2018
<b>PCBs</b>		<b>SW8082A (SW3550B)</b>		Prep Date: 11/15/2018		Analyst: GVC
Aroclor 1016	ND	0.093		mg/Kg-dry	1	11/16/2018
Aroclor 1221	ND	0.093		mg/Kg-dry	1	11/16/2018
Aroclor 1232	ND	0.093		mg/Kg-dry	1	11/16/2018
Aroclor 1242	ND	0.093		mg/Kg-dry	1	11/16/2018
Aroclor 1248	ND	0.093		mg/Kg-dry	1	11/16/2018
Aroclor 1254	ND	0.093		mg/Kg-dry	1	11/16/2018
Aroclor 1260	ND	0.093		mg/Kg-dry	1	11/16/2018

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

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E - Value above quantitation range

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-018

**Client Sample ID:** B-110B (1-3)  
**Collection Date:** 11/12/2018 8:10:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020A (SW3050B)</b>				Prep Date: 11/14/2018	Analyst: JG
Arsenic	10	0.99		mg/Kg-dry	10	11/16/2018
Barium	58	0.99		mg/Kg-dry	10	11/16/2018
Cadmium	ND	0.49		mg/Kg-dry	10	11/16/2018
Chromium	22	0.99		mg/Kg-dry	10	11/16/2018
Lead	31	0.49		mg/Kg-dry	10	11/16/2018
Selenium	ND	0.99		mg/Kg-dry	10	11/16/2018
Silver	ND	0.99		mg/Kg-dry	10	11/16/2018
<b>Mercury</b>	<b>SW7471B</b>				Prep Date: 11/15/2018	Analyst: LB
Mercury	ND	0.021		mg/Kg-dry	1	11/16/2018
<b>pH (25 °C)</b>	<b>SW9045C</b>				Prep Date: 11/15/2018	Analyst: RW
pH	7.69			pH Units	1	11/15/2018
<b>Organic Matter / Carbon</b>	<b>D2974</b>				Prep Date: 12/10/2018	Analyst: RW
Organic Carbon Content	1.02	0.01	*	wt%	1	12/11/2018
Organic Matter	1.76	0.01	*	wt%	1	12/11/2018
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 11/15/2018	Analyst: RW
Percent Moisture	15.1	0.2	*	wt%	1	11/16/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

Client: Carnow, Conibear, & Associates  
 Work Order: 18110408 Revision 4  
 Project: Firestation 115 B, 119th & Morgan St.  
 Lab ID: 18110408-019

Client Sample ID: B-110B (3-5)  
 Collection Date: 11/12/2018 8:15:00 AM  
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: 11/13/2018		Analyst: MJK
Acetone	ND	0.085		mg/Kg-dry	1	11/14/2018
Benzene	ND	0.0057		mg/Kg-dry	1	11/14/2018
Bromodichloromethane	ND	0.0057		mg/Kg-dry	1	11/14/2018
Bromoform	ND	0.0057		mg/Kg-dry	1	11/14/2018
Bromomethane	ND	0.011		mg/Kg-dry	1	11/14/2018
2-Butanone	ND	0.085		mg/Kg-dry	1	11/14/2018
Carbon disulfide	ND	0.057		mg/Kg-dry	1	11/14/2018
Carbon tetrachloride	ND	0.0057		mg/Kg-dry	1	11/14/2018
Chlorobenzene	ND	0.0057		mg/Kg-dry	1	11/14/2018
Chloroethane	ND	0.011		mg/Kg-dry	1	11/14/2018
Chloroform	ND	0.0057		mg/Kg-dry	1	11/14/2018
Chloromethane	ND	0.011		mg/Kg-dry	1	11/14/2018
Dibromochloromethane	ND	0.0057		mg/Kg-dry	1	11/14/2018
1,1-Dichloroethane	ND	0.0057		mg/Kg-dry	1	11/14/2018
1,2-Dichloroethane	ND	0.0057		mg/Kg-dry	1	11/14/2018
1,1-Dichloroethene	ND	0.0057		mg/Kg-dry	1	11/14/2018
cis-1,2-Dichloroethene	ND	0.0057		mg/Kg-dry	1	11/14/2018
trans-1,2-Dichloroethene	ND	0.0057		mg/Kg-dry	1	11/14/2018
1,2-Dichloropropane	ND	0.0057		mg/Kg-dry	1	11/14/2018
cis-1,3-Dichloropropene	ND	0.0022		mg/Kg-dry	1	11/14/2018
trans-1,3-Dichloropropene	ND	0.0022		mg/Kg-dry	1	11/14/2018
Ethylbenzene	ND	0.0057		mg/Kg-dry	1	11/14/2018
2-Hexanone	ND	0.022		mg/Kg-dry	1	11/14/2018
4-Methyl-2-pentanone	ND	0.022		mg/Kg-dry	1	11/14/2018
Methylene chloride	ND	0.011		mg/Kg-dry	1	11/14/2018
Methyl tert-butyl ether	ND	0.0057		mg/Kg-dry	1	11/14/2018
Styrene	ND	0.0057		mg/Kg-dry	1	11/14/2018
1,1,2,2-Tetrachloroethane	ND	0.0057		mg/Kg-dry	1	11/14/2018
Tetrachloroethene	ND	0.0057		mg/Kg-dry	1	11/14/2018
Toluene	ND	0.0057		mg/Kg-dry	1	11/14/2018
1,1,1-Trichloroethane	ND	0.0057		mg/Kg-dry	1	11/14/2018
1,1,2-Trichloroethane	ND	0.0057		mg/Kg-dry	1	11/14/2018
Trichloroethene	ND	0.0057		mg/Kg-dry	1	11/14/2018
Vinyl chloride	ND	0.0057		mg/Kg-dry	1	11/14/2018
Xylenes, Total	ND	0.017		mg/Kg-dry	1	11/14/2018
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: FP
Acenaphthene	ND	0.040		mg/Kg-dry	1	11/16/2018
Acenaphthylene	ND	0.040		mg/Kg-dry	1	11/16/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

Client: Carnow, Conibear, & Associates  
 Work Order: 18110408 Revision 4  
 Project: Firestation 115 B, 119th & Morgan St.  
 Lab ID: 18110408-019

Client Sample ID: B-110B (3-5)  
 Collection Date: 11/12/2018 8:15:00 AM  
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: FP
Aniline	ND	0.41		mg/Kg-dry	1	11/16/2018
Anthracene	ND	0.040		mg/Kg-dry	1	11/16/2018
Benz(a)anthracene	ND	0.040		mg/Kg-dry	1	11/16/2018
Benzidine	ND	0.40		mg/Kg-dry	1	11/16/2018
Benzo(a)pyrene	ND	0.040		mg/Kg-dry	1	11/16/2018
Benzo(b)fluoranthene	ND	0.040		mg/Kg-dry	1	11/16/2018
Benzo(g,h,i)perylene	ND	0.040		mg/Kg-dry	1	11/16/2018
Benzo(k)fluoranthene	ND	0.040		mg/Kg-dry	1	11/16/2018
Benzoic acid	ND	1.0		mg/Kg-dry	1	11/16/2018
Benzyl alcohol	ND	0.21		mg/Kg-dry	1	11/16/2018
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	11/16/2018
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	11/16/2018
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg-dry	1	11/16/2018
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	11/16/2018
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	11/16/2018
Carbazole	ND	0.21		mg/Kg-dry	1	11/16/2018
4-Chloroaniline	ND	0.21		mg/Kg-dry	1	11/16/2018
4-Chloro-3-methylphenol	ND	0.40		mg/Kg-dry	1	11/16/2018
2-Chloronaphthalene	ND	0.21		mg/Kg-dry	1	11/16/2018
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	11/16/2018
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	11/16/2018
Chrysene	ND	0.040		mg/Kg-dry	1	11/16/2018
Dibenz(a,h)anthracene	ND	0.040		mg/Kg-dry	1	11/16/2018
Dibenzofuran	ND	0.21		mg/Kg-dry	1	11/16/2018
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	11/16/2018
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	11/16/2018
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	11/16/2018
3,3'-Dichlorobenzidine	ND	0.21		mg/Kg-dry	1	11/16/2018
2,4-Dichlorophenol	ND	0.21		mg/Kg-dry	1	11/16/2018
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	11/16/2018
2,4-Dimethylphenol	ND	0.21		mg/Kg-dry	1	11/16/2018
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	11/16/2018
4,6-Dinitro-2-methylphenol	ND	0.40		mg/Kg-dry	1	11/16/2018
2,4-Dinitrophenol	ND	1.0		mg/Kg-dry	1	11/16/2018
2,4-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	11/16/2018
2,6-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	11/16/2018
Di-n-butyl phthalate	ND	0.21		mg/Kg-dry	1	11/16/2018
Di-n-octyl phthalate	ND	0.21		mg/Kg-dry	1	11/16/2018

**Qualifiers:**  
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 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
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 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-019

**Client Sample ID:** B-110B (3-5)  
**Collection Date:** 11/12/2018 8:15:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: FP
Fluoranthene	ND	0.040		mg/Kg-dry	1	11/16/2018
Fluorene	ND	0.040		mg/Kg-dry	1	11/16/2018
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	11/16/2018
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	11/16/2018
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	11/16/2018
Hexachloroethane	ND	0.21		mg/Kg-dry	1	11/16/2018
Indeno(1,2,3-cd)pyrene	ND	0.040		mg/Kg-dry	1	11/16/2018
Isophorone	ND	0.21		mg/Kg-dry	1	11/16/2018
2-Methylnaphthalene	ND	0.21		mg/Kg-dry	1	11/16/2018
2-Methylphenol	ND	0.21		mg/Kg-dry	1	11/16/2018
4-Methylphenol	ND	0.21		mg/Kg-dry	1	11/16/2018
Naphthalene	ND	0.040		mg/Kg-dry	1	11/16/2018
2-Nitroaniline	ND	0.21		mg/Kg-dry	1	11/16/2018
3-Nitroaniline	ND	0.21		mg/Kg-dry	1	11/16/2018
4-Nitroaniline	ND	0.21		mg/Kg-dry	1	11/16/2018
2-Nitrophenol	ND	0.21		mg/Kg-dry	1	11/16/2018
4-Nitrophenol	ND	0.40		mg/Kg-dry	1	11/16/2018
Nitrobenzene	ND	0.040		mg/Kg-dry	1	11/16/2018
N-Nitrosodi-n-propylamine	ND	0.040		mg/Kg-dry	1	11/16/2018
N-Nitrosodimethylamine	ND	0.21		mg/Kg-dry	1	11/16/2018
N-Nitrosodiphenylamine	ND	0.21		mg/Kg-dry	1	11/16/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.21		mg/Kg-dry	1	11/16/2018
Pentachlorophenol	ND	0.082		mg/Kg-dry	1	11/16/2018
Phenanthrene	ND	0.040		mg/Kg-dry	1	11/16/2018
Phenol	ND	0.21		mg/Kg-dry	1	11/16/2018
Pyrene	ND	0.040		mg/Kg-dry	1	11/16/2018
Pyridine	ND	0.82		mg/Kg-dry	1	11/16/2018
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	1	11/16/2018
2,4,5-Trichlorophenol	ND	0.21		mg/Kg-dry	1	11/16/2018
2,4,6-Trichlorophenol	ND	0.21		mg/Kg-dry	1	11/16/2018
<b>PCBs</b>		<b>SW8082A (SW3550B)</b>		Prep Date: 11/15/2018		Analyst: GVC
Aroclor 1016	ND	0.099		mg/Kg-dry	1	11/16/2018
Aroclor 1221	ND	0.099		mg/Kg-dry	1	11/16/2018
Aroclor 1232	ND	0.099		mg/Kg-dry	1	11/16/2018
Aroclor 1242	ND	0.099		mg/Kg-dry	1	11/16/2018
Aroclor 1248	ND	0.099		mg/Kg-dry	1	11/16/2018
Aroclor 1254	ND	0.099		mg/Kg-dry	1	11/16/2018
Aroclor 1260	ND	0.099		mg/Kg-dry	1	11/16/2018

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

**Qualifiers:**

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S - Spike Recovery outside accepted recovery limits

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R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-019

**Client Sample ID:** B-110B (3-5)  
**Collection Date:** 11/12/2018 8:15:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>						
	<b>SW6020A (SW3050B)</b>			Prep Date: 11/14/2018		Analyst: JG
Arsenic	14	1.1		mg/Kg-dry	10	11/16/2018
Barium	110	1.1		mg/Kg-dry	10	11/16/2018
Cadmium	4.5	0.56		mg/Kg-dry	10	11/16/2018
Chromium	14	1.1		mg/Kg-dry	10	11/16/2018
Lead	700	0.56		mg/Kg-dry	10	11/16/2018
Selenium	1.1	1.1		mg/Kg-dry	10	11/16/2018
Silver	ND	1.1		mg/Kg-dry	10	11/16/2018
<b>SPLP Metals by ICP/MS</b>						
	<b>SW1312/6020A (SW3005A)</b>			Prep Date: 11/24/2018		Analyst: JG
Lead	0.0087	0.0020		mg/L	2	11/26/2018
<b>TCLP Metals by ICP/MS</b>						
	<b>SW1311/6020A (SW3005A)</b>			Prep Date: 11/24/2018		Analyst: JG
Lead	0.19	0.0050		mg/L	5	11/26/2018
<b>Mercury</b>						
	<b>SW7471B</b>			Prep Date: 11/15/2018		Analyst: LB
Mercury	ND	0.021		mg/Kg-dry	1	11/16/2018
<b>pH (25 °C)</b>						
	<b>SW9045C</b>			Prep Date: 11/15/2018		Analyst: RW
pH	7.83			pH Units	1	11/15/2018
<b>Percent Moisture</b>						
	<b>D2974</b>			Prep Date: 11/15/2018		Analyst: RW
Percent Moisture	19.8	0.2	*	wt%	1	11/16/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-020

**Client Sample ID:** B-105B (1-3)  
**Collection Date:** 11/12/2018 7:56:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: 11/13/2018		Analyst: MJK
Acetone	ND	0.069		mg/Kg-dry	1	11/14/2018
Benzene	ND	0.0046		mg/Kg-dry	1	11/14/2018
Bromodichloromethane	ND	0.0046		mg/Kg-dry	1	11/14/2018
Bromoform	ND	0.0046		mg/Kg-dry	1	11/14/2018
Bromomethane	ND	0.0092		mg/Kg-dry	1	11/14/2018
2-Butanone	ND	0.069		mg/Kg-dry	1	11/14/2018
Carbon disulfide	ND	0.046		mg/Kg-dry	1	11/14/2018
Carbon tetrachloride	ND	0.0046		mg/Kg-dry	1	11/14/2018
Chlorobenzene	ND	0.0046		mg/Kg-dry	1	11/14/2018
Chloroethane	ND	0.0092		mg/Kg-dry	1	11/14/2018
Chloroform	ND	0.0046		mg/Kg-dry	1	11/14/2018
Chloromethane	ND	0.0092		mg/Kg-dry	1	11/14/2018
Dibromochloromethane	ND	0.0046		mg/Kg-dry	1	11/14/2018
1,1-Dichloroethane	ND	0.0046		mg/Kg-dry	1	11/14/2018
1,2-Dichloroethane	ND	0.0046		mg/Kg-dry	1	11/14/2018
1,1-Dichloroethene	ND	0.0046		mg/Kg-dry	1	11/14/2018
cis-1,2-Dichloroethene	ND	0.0046		mg/Kg-dry	1	11/14/2018
trans-1,2-Dichloroethene	ND	0.0046		mg/Kg-dry	1	11/14/2018
1,2-Dichloropropane	ND	0.0046		mg/Kg-dry	1	11/14/2018
cis-1,3-Dichloropropene	ND	0.0018		mg/Kg-dry	1	11/14/2018
trans-1,3-Dichloropropene	ND	0.0018		mg/Kg-dry	1	11/14/2018
Ethylbenzene	ND	0.0046		mg/Kg-dry	1	11/14/2018
2-Hexanone	ND	0.018		mg/Kg-dry	1	11/14/2018
4-Methyl-2-pentanone	ND	0.018		mg/Kg-dry	1	11/14/2018
Methylene chloride	ND	0.0092		mg/Kg-dry	1	11/14/2018
Methyl tert-butyl ether	ND	0.0046		mg/Kg-dry	1	11/14/2018
Styrene	ND	0.0046		mg/Kg-dry	1	11/14/2018
1,1,2,2-Tetrachloroethane	ND	0.0046		mg/Kg-dry	1	11/14/2018
Tetrachloroethene	ND	0.0046		mg/Kg-dry	1	11/14/2018
Toluene	ND	0.0046		mg/Kg-dry	1	11/14/2018
1,1,1-Trichloroethane	ND	0.0046		mg/Kg-dry	1	11/14/2018
1,1,2-Trichloroethane	ND	0.0046		mg/Kg-dry	1	11/14/2018
Trichloroethene	ND	0.0046		mg/Kg-dry	1	11/14/2018
Vinyl chloride	ND	0.0046		mg/Kg-dry	1	11/14/2018
Xylenes, Total	ND	0.014		mg/Kg-dry	1	11/14/2018
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: DM
Acenaphthene	ND	0.039		mg/Kg-dry	1	11/16/2018
Acenaphthylene	ND	0.039		mg/Kg-dry	1	11/16/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-020

**Client Sample ID:** B-105B (1-3)  
**Collection Date:** 11/12/2018 7:56:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: DM
Aniline	ND	0.39		mg/Kg-dry	1	11/16/2018
Anthracene	ND	0.039		mg/Kg-dry	1	11/16/2018
Benz(a)anthracene	0.050	0.039		mg/Kg-dry	1	11/16/2018
Benzidine	ND	0.39		mg/Kg-dry	1	11/16/2018
Benzo(a)pyrene	0.057	0.039		mg/Kg-dry	1	11/16/2018
Benzo(b)fluoranthene	0.061	0.039		mg/Kg-dry	1	11/16/2018
Benzo(g,h,i)perylene	0.047	0.039		mg/Kg-dry	1	11/16/2018
Benzo(k)fluoranthene	0.044	0.039		mg/Kg-dry	1	11/16/2018
Benzoic acid	ND	0.98		mg/Kg-dry	1	11/16/2018
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	11/16/2018
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	11/16/2018
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	11/16/2018
Bis(2-ethylhexyl)phthalate	ND	0.98		mg/Kg-dry	1	11/16/2018
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	11/16/2018
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	11/16/2018
Carbazole	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	11/16/2018
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	11/16/2018
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	11/16/2018
Chrysene	0.059	0.039		mg/Kg-dry	1	11/16/2018
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	11/16/2018
Dibenzofuran	ND	0.20		mg/Kg-dry	1	11/16/2018
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/16/2018
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/16/2018
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/16/2018
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	11/16/2018
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	11/16/2018
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	11/16/2018
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	11/16/2018
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	11/16/2018
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	11/16/2018
2,4-Dinitrophenol	ND	0.98		mg/Kg-dry	1	11/16/2018
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	11/16/2018
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	11/16/2018
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	11/16/2018
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	11/16/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-020

**Client Sample ID:** B-105B (1-3)  
**Collection Date:** 11/12/2018 7:56:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: DM
Fluoranthene	0.079	0.039		mg/Kg-dry	1	11/16/2018
Fluorene	ND	0.039		mg/Kg-dry	1	11/16/2018
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	11/16/2018
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	11/16/2018
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	11/16/2018
Hexachloroethane	ND	0.20		mg/Kg-dry	1	11/16/2018
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	11/16/2018
Isophorone	ND	0.20		mg/Kg-dry	1	11/16/2018
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	11/16/2018
2-Methylphenol	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Methylphenol	ND	0.20		mg/Kg-dry	1	11/16/2018
Naphthalene	ND	0.039		mg/Kg-dry	1	11/16/2018
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/16/2018
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/16/2018
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	11/16/2018
Nitrobenzene	ND	0.039		mg/Kg-dry	1	11/16/2018
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	11/16/2018
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	11/16/2018
N-Nitrosodiphenylamine	ND	0.039		mg/Kg-dry	1	11/16/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	11/16/2018
Pentachlorophenol	ND	0.039		mg/Kg-dry	1	11/16/2018
Phenanthrene	ND	0.039		mg/Kg-dry	1	11/16/2018
Phenol	ND	0.20		mg/Kg-dry	1	11/16/2018
Pyrene	0.076	0.039		mg/Kg-dry	1	11/16/2018
Pyridine	ND	0.79		mg/Kg-dry	1	11/16/2018
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	11/16/2018
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	11/16/2018
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	11/16/2018
<b>PCBs</b>		<b>SW8082A (SW3550B)</b>		Prep Date: 11/15/2018		Analyst: GVC
Aroclor 1016	ND	0.094		mg/Kg-dry	1	11/15/2018
Aroclor 1221	ND	0.094		mg/Kg-dry	1	11/15/2018
Aroclor 1232	ND	0.094		mg/Kg-dry	1	11/15/2018
Aroclor 1242	ND	0.094		mg/Kg-dry	1	11/15/2018
Aroclor 1248	ND	0.094		mg/Kg-dry	1	11/15/2018
Aroclor 1254	ND	0.094		mg/Kg-dry	1	11/15/2018
Aroclor 1260	ND	0.094		mg/Kg-dry	1	11/15/2018

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-020

**Client Sample ID:** B-105B (1-3)  
**Collection Date:** 11/12/2018 7:56:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Pesticides</b>		<b>SW8081B (SW3550B)</b>		Prep Date: 11/15/2018		Analyst: GVC
4,4'-DDD	ND	0.0019		mg/Kg-dry	1	11/15/2018
4,4'-DDE	ND	0.0019		mg/Kg-dry	1	11/15/2018
4,4'-DDT	ND	0.0019		mg/Kg-dry	1	11/15/2018
Aldrin	ND	0.0019		mg/Kg-dry	1	11/15/2018
alpha-BHC	ND	0.0019		mg/Kg-dry	1	11/15/2018
alpha-Chlordane	ND	0.0019		mg/Kg-dry	1	11/15/2018
beta-BHC	ND	0.0019		mg/Kg-dry	1	11/15/2018
Chlordane	ND	0.019		mg/Kg-dry	1	11/15/2018
delta-BHC	ND	0.0019		mg/Kg-dry	1	11/15/2018
Dieldrin	ND	0.0019		mg/Kg-dry	1	11/15/2018
Endosulfan I	ND	0.0019		mg/Kg-dry	1	11/15/2018
Endosulfan II	ND	0.0019		mg/Kg-dry	1	11/15/2018
Endosulfan sulfate	ND	0.0019		mg/Kg-dry	1	11/15/2018
Endrin	ND	0.0019		mg/Kg-dry	1	11/15/2018
Endrin aldehyde	ND	0.0019		mg/Kg-dry	1	11/15/2018
Endrin ketone	ND	0.0019		mg/Kg-dry	1	11/15/2018
gamma-BHC	ND	0.0019		mg/Kg-dry	1	11/15/2018
gamma-Chlordane	ND	0.0019		mg/Kg-dry	1	11/15/2018
Heptachlor	ND	0.0019		mg/Kg-dry	1	11/15/2018
Heptachlor epoxide	ND	0.0019		mg/Kg-dry	1	11/15/2018
Methoxychlor	ND	0.0019		mg/Kg-dry	1	11/15/2018
Toxaphene	ND	0.039		mg/Kg-dry	1	11/15/2018
<b>Total Petroleum Hydrocarbons</b>		<b>SW8015M (SW3580A)</b>		Prep Date: 11/13/2018		Analyst: GVC
TPH (GRO)	ND	22		mg/Kg-dry	1	11/14/2018
TPH (DRO)	ND	22		mg/Kg-dry	1	11/14/2018
TPH (ERO)	ND	22	*	mg/Kg-dry	1	11/14/2018
<b>Metals by ICP/MS</b>		<b>SW6020A (SW3050B)</b>		Prep Date: 11/14/2018		Analyst: JG
Aluminum	6900	20		mg/Kg-dry	10	11/16/2018
Antimony	ND	2.0		mg/Kg-dry	10	11/16/2018
Arsenic	13	1.0		mg/Kg-dry	10	11/16/2018
Barium	72	1.0		mg/Kg-dry	10	11/16/2018
Beryllium	0.69	0.51		mg/Kg-dry	10	11/16/2018
Cadmium	0.58	0.51		mg/Kg-dry	10	11/16/2018
Calcium	34000	61		mg/Kg-dry	10	11/16/2018
Chromium	14	1.0		mg/Kg-dry	10	11/16/2018
Cobalt	7.9	1.0		mg/Kg-dry	10	11/16/2018
Copper	27	2.6		mg/Kg-dry	10	11/16/2018

**Qualifiers:**

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**STAT Analysis Corporation**

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-020

**Client Sample ID:** B-105B (1-3)  
**Collection Date:** 11/12/2018 7:56:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020A (SW3050B)</b>		Prep Date: 11/14/2018 Analyst: JG			
Iron	20000	31		mg/Kg-dry	10	11/16/2018
Lead	140	0.51		mg/Kg-dry	10	11/16/2018
Magnesium	19000	31		mg/Kg-dry	10	11/16/2018
Manganese	330	1.0		mg/Kg-dry	10	11/16/2018
Nickel	21	1.0		mg/Kg-dry	10	11/16/2018
Potassium	840	31		mg/Kg-dry	10	11/16/2018
Selenium	ND	1.0		mg/Kg-dry	10	11/16/2018
Silver	ND	1.0		mg/Kg-dry	10	11/16/2018
Sodium	79	61		mg/Kg-dry	10	11/16/2018
Thallium	ND	1.0		mg/Kg-dry	10	11/16/2018
Vanadium	31	1.0		mg/Kg-dry	10	11/16/2018
Zinc	210	5.1		mg/Kg-dry	10	11/16/2018
<b>Mercury</b>	<b>SW7471B</b>		Prep Date: 11/15/2018 Analyst: LB			
Mercury	0.032	0.020		mg/Kg-dry	1	11/16/2018
<b>Cyanide, Total</b>	<b>SW9012A</b>		Prep Date: 11/19/2018 Analyst: JTB			
Cyanide	0.34	0.30		mg/Kg-dry	1	11/19/2018
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: 11/15/2018 Analyst: RW			
pH	7.89			pH Units	1	11/15/2018
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: 11/15/2018 Analyst: RW			
Percent Moisture	16.0	0.2	*	wt%	1	11/16/2018

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 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

Client: Carnow, Conibear, & Associates  
 Work Order: 18110408 Revision 4  
 Project: Firestation 115 B, 119th & Morgan St.  
 Lab ID: 18110408-021

Client Sample ID: B-105B (3-5)  
 Collection Date: 11/12/2018 7:58:00 AM  
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: 11/13/2018		Analyst: MJK
Acetone	ND	0.089		mg/Kg-dry	1	11/14/2018
Benzene	ND	0.0060		mg/Kg-dry	1	11/14/2018
Bromodichloromethane	ND	0.0060		mg/Kg-dry	1	11/14/2018
Bromoform	ND	0.0060		mg/Kg-dry	1	11/14/2018
Bromomethane	ND	0.012		mg/Kg-dry	1	11/14/2018
2-Butanone	ND	0.089		mg/Kg-dry	1	11/14/2018
Carbon disulfide	ND	0.060		mg/Kg-dry	1	11/14/2018
Carbon tetrachloride	ND	0.0060		mg/Kg-dry	1	11/14/2018
Chlorobenzene	ND	0.0060		mg/Kg-dry	1	11/14/2018
Chloroethane	ND	0.012		mg/Kg-dry	1	11/14/2018
Chloroform	ND	0.0060		mg/Kg-dry	1	11/14/2018
Chloromethane	ND	0.012		mg/Kg-dry	1	11/14/2018
Dibromochloromethane	ND	0.0060		mg/Kg-dry	1	11/14/2018
1,1-Dichloroethane	ND	0.0060		mg/Kg-dry	1	11/14/2018
1,2-Dichloroethane	ND	0.0060		mg/Kg-dry	1	11/14/2018
1,1-Dichloroethene	ND	0.0060		mg/Kg-dry	1	11/14/2018
cis-1,2-Dichloroethene	ND	0.0060		mg/Kg-dry	1	11/14/2018
trans-1,2-Dichloroethene	ND	0.0060		mg/Kg-dry	1	11/14/2018
1,2-Dichloropropane	ND	0.0060		mg/Kg-dry	1	11/14/2018
cis-1,3-Dichloropropene	ND	0.0024		mg/Kg-dry	1	11/14/2018
trans-1,3-Dichloropropene	ND	0.0024		mg/Kg-dry	1	11/14/2018
Ethylbenzene	ND	0.0060		mg/Kg-dry	1	11/14/2018
2-Hexanone	ND	0.024		mg/Kg-dry	1	11/14/2018
4-Methyl-2-pentanone	ND	0.024		mg/Kg-dry	1	11/14/2018
Methylene chloride	ND	0.012		mg/Kg-dry	1	11/14/2018
Methyl tert-butyl ether	ND	0.0060		mg/Kg-dry	1	11/14/2018
Styrene	ND	0.0060		mg/Kg-dry	1	11/14/2018
1,1,2,2-Tetrachloroethane	ND	0.0060		mg/Kg-dry	1	11/14/2018
Tetrachloroethene	ND	0.0060		mg/Kg-dry	1	11/14/2018
Toluene	ND	0.0060		mg/Kg-dry	1	11/14/2018
1,1,1-Trichloroethane	ND	0.0060		mg/Kg-dry	1	11/14/2018
1,1,2-Trichloroethane	ND	0.0060		mg/Kg-dry	1	11/14/2018
Trichloroethene	ND	0.0060		mg/Kg-dry	1	11/14/2018
Vinyl chloride	ND	0.0060		mg/Kg-dry	1	11/14/2018
Xylenes, Total	ND	0.018		mg/Kg-dry	1	11/14/2018
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: DM
Acenaphthene	ND	0.039		mg/Kg-dry	1	11/16/2018
Acenaphthylene	ND	0.039		mg/Kg-dry	1	11/16/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

Client: Carnow, Conibear, & Associates  
 Work Order: 18110408 Revision 4  
 Project: Firestation 115 B, 119th & Morgan St.  
 Lab ID: 18110408-021

Client Sample ID: B-105B (3-5)  
 Collection Date: 11/12/2018 7:58:00 AM  
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C (SW3550B)</b>					Prep Date: 11/14/2018 Analyst: DM
Aniline	ND	0.39		mg/Kg-dry	1	11/16/2018
Anthracene	ND	0.039		mg/Kg-dry	1	11/16/2018
Benz(a)anthracene	ND	0.039		mg/Kg-dry	1	11/16/2018
Benzidine	ND	0.39		mg/Kg-dry	1	11/16/2018
Benzo(a)pyrene	ND	0.039		mg/Kg-dry	1	11/16/2018
Benzo(b)fluoranthene	ND	0.039		mg/Kg-dry	1	11/16/2018
Benzo(g,h,i)perylene	ND	0.039		mg/Kg-dry	1	11/16/2018
Benzo(k)fluoranthene	ND	0.039		mg/Kg-dry	1	11/16/2018
Benzoic acid	ND	0.98		mg/Kg-dry	1	11/16/2018
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	11/16/2018
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	11/16/2018
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	11/16/2018
Bis(2-ethylhexyl)phthalate	ND	0.98		mg/Kg-dry	1	11/16/2018
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	11/16/2018
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	11/16/2018
Carbazole	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	11/16/2018
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	11/16/2018
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	11/16/2018
Chrysene	ND	0.039		mg/Kg-dry	1	11/16/2018
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	11/16/2018
Dibenzofuran	ND	0.20		mg/Kg-dry	1	11/16/2018
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/16/2018
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/16/2018
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/16/2018
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	11/16/2018
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	11/16/2018
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	11/16/2018
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	11/16/2018
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	11/16/2018
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	11/16/2018
2,4-Dinitrophenol	ND	0.98		mg/Kg-dry	1	11/16/2018
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	11/16/2018
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	11/16/2018
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	11/16/2018
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	11/16/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-021

**Client Sample ID:** B-105B (3-5)  
**Collection Date:** 11/12/2018 7:58:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: DM
Fluoranthene	ND	0.039		mg/Kg-dry	1	11/16/2018
Fluorene	ND	0.039		mg/Kg-dry	1	11/16/2018
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	11/16/2018
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	11/16/2018
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	11/16/2018
Hexachloroethane	ND	0.20		mg/Kg-dry	1	11/16/2018
Indeno(1,2,3-cd)pyrene	ND	0.039		mg/Kg-dry	1	11/16/2018
Isophorone	ND	0.20		mg/Kg-dry	1	11/16/2018
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	11/16/2018
2-Methylphenol	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Methylphenol	ND	0.20		mg/Kg-dry	1	11/16/2018
Naphthalene	ND	0.039		mg/Kg-dry	1	11/16/2018
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/16/2018
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/16/2018
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	11/16/2018
Nitrobenzene	ND	0.039		mg/Kg-dry	1	11/16/2018
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	11/16/2018
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	11/16/2018
N-Nitrosodiphenylamine	ND	0.039		mg/Kg-dry	1	11/16/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	11/16/2018
Pentachlorophenol	ND	0.039		mg/Kg-dry	1	11/16/2018
Phenanthrene	ND	0.039		mg/Kg-dry	1	11/16/2018
Phenol	ND	0.20		mg/Kg-dry	1	11/16/2018
Pyrene	ND	0.039		mg/Kg-dry	1	11/16/2018
Pyridine	ND	0.79		mg/Kg-dry	1	11/16/2018
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	11/16/2018
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	11/16/2018
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	11/16/2018
<b>PCBs</b>		<b>SW8082A (SW3550B)</b>		Prep Date: 11/15/2018		Analyst: GVC
Aroclor 1016	ND	0.094		mg/Kg-dry	1	11/15/2018
Aroclor 1221	ND	0.094		mg/Kg-dry	1	11/15/2018
Aroclor 1232	ND	0.094		mg/Kg-dry	1	11/15/2018
Aroclor 1242	ND	0.094		mg/Kg-dry	1	11/15/2018
Aroclor 1248	ND	0.094		mg/Kg-dry	1	11/15/2018
Aroclor 1254	ND	0.094		mg/Kg-dry	1	11/15/2018
Aroclor 1260	ND	0.094		mg/Kg-dry	1	11/15/2018

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**Qualifiers:**

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-021

**Client Sample ID:** B-105B (3-5)  
**Collection Date:** 11/12/2018 7:58:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Pesticides</b>		<b>SW8081B (SW3550B)</b>		Prep Date: 11/15/2018		Analyst: GVC
4,4'-DDD	ND	0.0019		mg/Kg-dry	1	11/15/2018
4,4'-DDE	ND	0.0019		mg/Kg-dry	1	11/15/2018
4,4'-DDT	ND	0.0019		mg/Kg-dry	1	11/15/2018
Aldrin	ND	0.0019		mg/Kg-dry	1	11/15/2018
alpha-BHC	ND	0.0019		mg/Kg-dry	1	11/15/2018
alpha-Chlordane	ND	0.0019		mg/Kg-dry	1	11/15/2018
beta-BHC	ND	0.0019		mg/Kg-dry	1	11/15/2018
Chlordane	ND	0.019		mg/Kg-dry	1	11/15/2018
delta-BHC	ND	0.0019		mg/Kg-dry	1	11/15/2018
Dieldrin	ND	0.0019		mg/Kg-dry	1	11/15/2018
Endosulfan I	ND	0.0019		mg/Kg-dry	1	11/15/2018
Endosulfan II	ND	0.0019		mg/Kg-dry	1	11/15/2018
Endosulfan sulfate	ND	0.0019		mg/Kg-dry	1	11/15/2018
Endrin	ND	0.0019		mg/Kg-dry	1	11/15/2018
Endrin aldehyde	ND	0.0019		mg/Kg-dry	1	11/15/2018
Endrin ketone	ND	0.0019		mg/Kg-dry	1	11/15/2018
gamma-BHC	ND	0.0019		mg/Kg-dry	1	11/15/2018
gamma-Chlordane	ND	0.0019		mg/Kg-dry	1	11/15/2018
Heptachlor	ND	0.0019		mg/Kg-dry	1	11/15/2018
Heptachlor epoxide	ND	0.0019		mg/Kg-dry	1	11/15/2018
Methoxychlor	ND	0.0019		mg/Kg-dry	1	11/15/2018
Toxaphene	ND	0.039		mg/Kg-dry	1	11/15/2018
<b>Total Petroleum Hydrocarbons</b>		<b>SW8015M (SW3580A)</b>		Prep Date: 11/13/2018		Analyst: GVC
TPH (GRO)	ND	20		mg/Kg-dry	1	11/14/2018
TPH (DRO)	ND	20		mg/Kg-dry	1	11/14/2018
TPH (ERO)	ND	20	*	mg/Kg-dry	1	11/14/2018
<b>Metals by ICP/MS</b>		<b>SW6020A (SW3050B)</b>		Prep Date: 11/14/2018		Analyst: JG
Aluminum	6300	21		mg/Kg-dry	10	11/15/2018
Antimony	ND	2.1		mg/Kg-dry	10	11/15/2018
Arsenic	9.0	1.0		mg/Kg-dry	10	11/15/2018
Barium	45	1.0		mg/Kg-dry	10	11/15/2018
Beryllium	ND	0.52		mg/Kg-dry	10	11/15/2018
Cadmium	ND	0.52		mg/Kg-dry	10	11/15/2018
Calcium	2000	62		mg/Kg-dry	10	11/15/2018
Chromium	14	1.0		mg/Kg-dry	10	11/15/2018
Cobalt	6.3	1.0		mg/Kg-dry	10	11/15/2018
Copper	10	2.6		mg/Kg-dry	10	11/15/2018

**Qualifiers:**

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RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-021

**Client Sample ID:** B-105B (3-5)  
**Collection Date:** 11/12/2018 7:58:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>						
	<b>SW6020A (SW3050B)</b>			Prep Date: 11/14/2018 Analyst: JG		
Iron	14000	31		mg/Kg-dry	10	11/15/2018
Lead	9.8	0.52		mg/Kg-dry	10	11/15/2018
Magnesium	1900	31		mg/Kg-dry	10	11/15/2018
Manganese	110	1.0		mg/Kg-dry	10	11/15/2018
Nickel	12	1.0		mg/Kg-dry	10	11/15/2018
Potassium	460	31		mg/Kg-dry	10	11/15/2018
Selenium	ND	1.0		mg/Kg-dry	10	11/15/2018
Silver	ND	1.0		mg/Kg-dry	10	11/15/2018
Sodium	68	62		mg/Kg-dry	10	11/15/2018
Thallium	ND	1.0		mg/Kg-dry	10	11/15/2018
Vanadium	36	1.0		mg/Kg-dry	10	11/15/2018
Zinc	48	5.2		mg/Kg-dry	10	11/15/2018
<b>Mercury</b>						
	<b>SW7471B</b>			Prep Date: 11/14/2018 Analyst: LB		
Mercury	ND	0.021		mg/Kg-dry	1	11/14/2018
<b>Cyanide, Total</b>						
	<b>SW9012A</b>			Prep Date: 11/19/2018 Analyst: JTB		
Cyanide	ND	0.30		mg/Kg-dry	1	11/19/2018
<b>pH (25 °C)</b>						
	<b>SW9045C</b>			Prep Date: 11/15/2018 Analyst: RW		
pH	7.54			pH Units	1	11/15/2018
<b>Percent Moisture</b>						
	<b>D2974</b>			Prep Date: 11/15/2018 Analyst: RW		
Percent Moisture	16.2	0.2	*	wt%	1	11/16/2018

**Qualifiers:**  
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 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-022

**Client Sample ID:** WC-01  
**Collection Date:** 11/12/2018 1:00:00 PM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>F-Listed Volatile Compounds</b>		<b>SW8260B</b>		Prep Date: 11/13/2018		Analyst: MJK
1,1,1-Trichloroethane	ND	0.0052		mg/Kg	1	11/13/2018
1,1,2-Trichloroethane	ND	0.0052		mg/Kg	1	11/13/2018
1,2-Dichlorobenzene	ND	0.0052		mg/Kg	1	11/13/2018
1-Butanol	ND	0.42		mg/Kg	1	11/13/2018
2-Butanone	ND	0.078		mg/Kg	1	11/13/2018
2-Nitropropane	ND	0.052		mg/Kg	1	11/13/2018
4-Methyl-2-pentanone	ND	0.010		mg/Kg	1	11/13/2018
Acetone	ND	0.078		mg/Kg	1	11/13/2018
Benzene	ND	0.0052		mg/Kg	1	11/13/2018
Carbon disulfide	ND	0.0052		mg/Kg	1	11/13/2018
Carbon tetrachloride	ND	0.0052		mg/Kg	1	11/13/2018
Chlorobenzene	ND	0.0052		mg/Kg	1	11/13/2018
Ethyl acetate	ND	0.052		mg/Kg	1	11/13/2018
Ethyl Ether	ND	0.052		mg/Kg	1	11/13/2018
Ethylbenzene	ND	0.0052		mg/Kg	1	11/13/2018
Freon-113	ND	0.0052	*	mg/Kg	1	11/13/2018
Isobutyl Alcohol	ND	0.42		mg/Kg	1	11/13/2018
Methanol	ND	0.97	*	mg/Kg	1	11/13/2018
Methylene chloride	ND	0.010		mg/Kg	1	11/13/2018
Tetrachloroethene	ND	0.0052		mg/Kg	1	11/13/2018
Toluene	ND	0.0052		mg/Kg	1	11/13/2018
Trichloroethene	ND	0.0052		mg/Kg	1	11/13/2018
Trichlorofluoromethane	ND	0.0052		mg/Kg	1	11/13/2018
Xylenes, Total	ND	0.016		mg/Kg	1	11/13/2018
<b>TCLP Volatile Organic Compounds by GC/MS</b>		<b>SW1311/8260B (SW5030B)</b>		Prep Date: 11/14/2018		Analyst: MJK
Benzene	ND	0.050		mg/L	10	11/15/2018
2-Butanone	ND	0.20		mg/L	10	11/15/2018
Carbon tetrachloride	ND	0.050		mg/L	10	11/15/2018
Chlorobenzene	ND	0.050		mg/L	10	11/15/2018
Chloroform	ND	0.050		mg/L	10	11/15/2018
1,2-Dichloroethane	ND	0.050		mg/L	10	11/15/2018
1,1-Dichloroethane	ND	0.050		mg/L	10	11/15/2018
Tetrachloroethene	ND	0.050		mg/L	10	11/15/2018
Trichloroethene	ND	0.050		mg/L	10	11/15/2018
Vinyl chloride	ND	0.050		mg/L	10	11/15/2018
<b>F-Listed Semivolatile Compounds</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: DM
2-Ethoxyethanol	ND	0.33	*	mg/Kg	1	11/16/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-022

**Client Sample ID:** WC-01  
**Collection Date:** 11/12/2018 1:00:00 PM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>F-Listed Semivolatile Compounds</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/14/2018		Analyst: DM
2-Methylphenol	ND	0.33		mg/Kg	1	11/16/2018
3- & 4-Methylphenol	ND	0.33		mg/Kg	1	11/16/2018
Cyclohexanone	ND	0.33	*	mg/Kg	1	11/16/2018
Nitrobenzene	ND	0.33		mg/Kg	1	11/16/2018
Pyridine	ND	0.33		mg/Kg	1	11/16/2018
<b>TCLP Semivolatile Organic Compounds</b>		<b>SW1311/8270C (SW3510C)</b>		Prep Date: 11/16/2018		Analyst: DM
1,4-Dichlorobenzene	ND	0.010		mg/L	1	11/19/2018
2,4-Dinitrotoluene	ND	0.010		mg/L	1	11/19/2018
Hexachlorobenzene	ND	0.010		mg/L	1	11/19/2018
Hexachlorobutadiene	ND	0.010		mg/L	1	11/19/2018
Hexachloroethane	ND	0.010		mg/L	1	11/19/2018
Nitrobenzene	ND	0.010		mg/L	1	11/19/2018
2-methylphenol	ND	0.010		mg/L	1	11/19/2018
3- & 4-Methylphenol	ND	0.010		mg/L	1	11/19/2018
Pentachlorophenol	ND	0.050		mg/L	1	11/19/2018
Pyridine	ND	0.010		mg/L	1	11/19/2018
2,4,5-Trichlorophenol	ND	0.010		mg/L	1	11/19/2018
2,4,6-Trichlorophenol	ND	0.010		mg/L	1	11/19/2018
<b>PCBs</b>		<b>SW8082A (SW3550B)</b>		Prep Date: 11/15/2018		Analyst: GVC
Aroclor 1016	ND	0.080		mg/Kg	1	11/16/2018
Aroclor 1221	ND	0.080		mg/Kg	1	11/16/2018
Aroclor 1232	ND	0.080		mg/Kg	1	11/16/2018
Aroclor 1242	ND	0.080		mg/Kg	1	11/16/2018
Aroclor 1248	ND	0.080		mg/Kg	1	11/16/2018
Aroclor 1254	ND	0.080		mg/Kg	1	11/16/2018
Aroclor 1260	ND	0.080		mg/Kg	1	11/16/2018
<b>TCLP Pesticides</b>		<b>SW1311/8081B (SW3510C)</b>		Prep Date: 11/16/2018		Analyst: GVC
Chlordane	ND	0.0050		mg/L	1	11/19/2018
Endrin	ND	0.00050		mg/L	1	11/19/2018
gamma-BHC	ND	0.0025		mg/L	1	11/19/2018
Heptachlor	ND	0.00025		mg/L	1	11/19/2018
Heptachlor epoxide	ND	0.00025		mg/L	1	11/19/2018
Methoxychlor	ND	0.00025		mg/L	1	11/19/2018
Toxaphene	ND	0.0050		mg/L	1	11/19/2018
<b>Herbicides, TCLP Leached</b>		<b>SW1311/8321B (SW3510C)</b>		Prep Date: 11/19/2018		Analyst: MEP
2,4,5-TP (Silvex)	ND	0.0010		mg/L	1	11/19/2018

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Date Reported: December 13, 2018

**ANALYTICAL RESULTS**

Date Printed: December 13, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110408 Revision 4  
**Project:** Firestation 115 B, 119th & Morgan St.  
**Lab ID:** 18110408-022

**Client Sample ID:** WC-01  
**Collection Date:** 11/12/2018 1:00:00 PM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Herbicides, TCLP Leached</b>	<b>SW1311/8321B (SW3510C) Prep Date: 11/19/2018 Analyst: MEP</b>					
2,4-D	ND	0.0020		mg/L	1	11/19/2018
<b>TCLP Metals by ICP/MS</b>	<b>SW1311/6020A (SW3005A) Prep Date: 11/15/2018 Analyst: JG</b>					
Arsenic	ND	0.010		mg/L	5	11/15/2018
Barium	0.35	0.050		mg/L	5	11/15/2018
Cadmium	ND	0.0050		mg/L	5	11/15/2018
Chromium	ND	0.010		mg/L	5	11/15/2018
Copper	ND	0.10		mg/L	5	11/15/2018
Lead	0.010	0.0050		mg/L	5	11/15/2018
Nickel	ND	0.020		mg/L	5	11/15/2018
Selenium	ND	0.030		mg/L	5	11/15/2018
Silver	ND	0.010		mg/L	5	11/15/2018
Zinc	0.11	0.050		mg/L	5	11/15/2018
<b>TCLP Mercury</b>	<b>SW1311/7470A Prep Date: 11/15/2018 Analyst: LB</b>					
Mercury	ND	0.00020		mg/L	1	11/16/2018
<b>Cyanide, Total</b>	<b>SW9012A Prep Date: 11/19/2018 Analyst: JTB</b>					
Cyanide	ND	0.25		mg/Kg	1	11/19/2018
<b>Sulfide, Reactive</b>	<b>SW7.3.4.2 Prep Date: 11/13/2018 Analyst: MD</b>					
Reactive Sulfide	ND	9.9		mg/Kg	1	11/13/2018
<b>Phenolics</b>	<b>SW9066 (SW9065) Prep Date: 11/14/2018 Analyst: JTB</b>					
Phenolics, Total Recoverable	0.33	0.25		mg/Kg	1	11/14/2018
<b>pH (1:10, 25 °C)</b>	<b>SW9045C Prep Date: 11/19/2018 Analyst: RW</b>					
pH	8.6			pH Units	1	11/19/2018
<b>Flash Point (Open-Cup)</b>	<b>SW1010(M) Prep Date: 11/14/2018 Analyst: RW</b>					
Flashpoint	No flash up to 212		*	°F	1	11/14/2018
<b>Ash Content</b>	<b>E160.4 Prep Date: 11/14/2018 Analyst: RW</b>					
Ash Content	95.6	0.01	*	wt%	1	11/15/2018
<b>Solids, Total</b>	<b>D2974 Prep Date: 11/14/2018 Analyst: RW</b>					
Total Solid	84.9	0.2	*	wt%	1	11/15/2018
<b>Paint Filter</b>	<b>SW9095A Prep Date: 11/14/2018 Analyst: RW</b>					
Paint Filter	Pass			Pass/Fail	1	11/14/2018

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Company: <u>Cornow Conibeal</u>		Client Tracking No.:	
Project Number:			
Project Name: <u>Firestation 115B</u>			
Project Location: <u>119th + Morgan St.</u>			
Sampler(s): <u>Kasea Zelzer</u>			
Report To: <u>Kzeizer@ccatd.com</u> Phone: <u>(312) 659-9984</u>			
QC Level: 1 2 3 4		e-mail:	
Client Sample Number/Description:	Date Taken	Time Taken	Matrix
B-112B (1-3)	11/12/18	12:50	SOIL
B-112B (3-5)		1:00	
B-108B (1-3)		12:15	
B-108B (3-5)		12:30	
B-101B (1-3)		11:55	
B-101B (3-5)		12:03	
B-102B (1-3)		11:25	
B-102B (3-5)		11:35	
B-110B (1-3)		10:15	
B-110B (3-5)		10:20	
B-113B (1-3)		9:40	
B-113B (3-5)		9:50	
B-103B (1-3)		9:15	
B-103B (3-5)		9:20	
B-104B (1-3)		9:00	
B-109B (1-3)		8:42	
B-109B (3-5)		8:48	
B-110B (1-3)		8:10	
B-110B (3-5)		8:15	
Relinquished by: (Signature) <u>[Signature]</u>	Date/Time: <u>11/12/18 3:25</u>	Comments: <u>STAT 5 DAY</u>	
Received by: (Signature) <u>[Signature]</u>	Date/Time: <u>11/12/18/12:55</u>	Laboratory Work Order No.: <u>18110408</u>	
Relinquished by: (Signature)	Date/Time:	Received on Ice: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Received by: (Signature)	Date/Time:	Temperature: <u>4.4</u> °C	
Relinquished by: (Signature)	Date/Time:	Preservation Code: A = None B = HNO <sub>3</sub> C = NaOH	
Received by: (Signature)	Date/Time:	D = H <sub>2</sub> SO <sub>4</sub> E = HCl F = 5035/EnCore G = Other	



### Sample Receipt Checklist

Client Name CCA

Date and Time Received: 11/12/2018 3:25:00 PM

Work Order Number 18110408

Received by: EAA

Checklist completed by: ELW 11/12/18  
Signature Date

Reviewed by: DMZ 11/13/18  
Initials Date

Matrix: Carrier name Client Delivered

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels/containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container or Temp Blank temperature in compliance? Yes  No  Temperature 4.4 °C
- Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No
- Water - Samples pH checked? Yes  No  Checked by: \_\_\_\_\_
- Water - Samples properly preserved? Yes  No  pH Adjusted? \_\_\_\_\_

Any No response must be detailed in the comments section below.

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Client / Person contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Craig Chawla

---

**From:** Nohemi Melero <nmelero@calttd.com>  
**Sent:** Wednesday, November 21, 2018 3:27 PM  
**To:** Craig Chawla; Karen Zelzer  
**Subject:** RE: Firestation 115 B, 119th & Morgan St. 18110408

Craig,

Can you please the following analyses? We need results by November 28<sup>th</sup> 2018. STAT WO #'s 18110408 & 18110447.

B-101B(1-3) – SPLP/TCLP Aluminum, SPLP Cobalt, SPLP/TCLP Iron, SPLP Manganese  
B-104B(1-3) – SPLP/TCLP Lead  
B-110B(3-5) – SPLP/TCLP Lead  
B-114B(1-3) – SPLP Chromium

Thank you,

**CARNOW  
CONIBEAR**



**Nohemi Melero**  
Senior Project Manager

600 West Van Buren Street, Suite 500  
Chicago, Illinois 60607

t: 312.762.2927 c: 312.656.2383

e: [nmelero@calttd.com](mailto:nmelero@calttd.com) w: [calttd.com](http://calttd.com)

---

**From:** Craig Chawla [<mailto:cchawla@statanalysis.com>]  
**Sent:** Monday, November 19, 2018 11:57 AM  
**To:** Karen Zelzer <[kzelzer@calttd.com](mailto:kzelzer@calttd.com)>; Nohemi Melero <[nmelero@calttd.com](mailto:nmelero@calttd.com)>  
**Subject:** Firestation 115 B, 119th & Morgan St. 18110408

Karen/Nohemi,

Attached is the metals data for project Firestation 115 B, 119th & Morgan St. received 11/12/2018.

Based on the results, let me know if you need to add TCLP or SPLP Metals.

Craig Chawla  
STAT Analysis Corporation  
(312)733-0551

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## Craig Chawla

---

**From:** Karen Zelzer <kzelzer@calttd.com>  
**Sent:** Wednesday, December 05, 2018 2:42 PM  
**To:** Craig Chawla  
**Subject:** RE: Fire Station 115 Site B Additional Analysis

Hi Craig,

Could we please add the following analysis:

COC#907493  
B-103B (1-3) – Iron

Could we please have this result by Friday?

Thank you,



**Karen L. Zelzer**  
**Environmental Specialist I**

600 West Van Buren Street, Suite 500  
Chicago, Illinois 60607  
**t:** 312.762.2909 **c:** 312.659.9989  
**e:** kzelzer@calttd.com **w:** calttd.com

---

**From:** Craig Chawla <cchawla@statanalysis.com>  
**Sent:** Tuesday, December 04, 2018 4:25 PM  
**To:** Nohemi Melero <nmelero@calttd.com>  
**Cc:** Karen Zelzer <kzelzer@calttd.com>  
**Subject:** RE: Fire Station 115 Site B Additional Analysis

Hi Nohemi,

We have added the analysis.

Craig Chawla  
STAT Analysis Corporation  
(312)733-0551

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---

**From:** Nohemi Melero [<mailto:nmelero@calttd.com>]  
**Sent:** Tuesday, December 04, 2018 3:30 PM  
**To:** Craig Chawla  
**Cc:** Karen Zelzer

## Justice Kwateng

---

**From:** Karen Zelzer <kzelzer@calttd.com>  
**Sent:** Monday, December 10, 2018 9:15 AM  
**To:** Justice Kwateng  
**Cc:** Craig Chawla  
**Subject:** Fire Station 115 Site B 18110408

Good Morning Justice,  
Could we please run the following analysis:

B-110B (1-3) - foc

Thank you,

**CARNOW  
CONIBEAR**



**Karen L. Zelzer**  
Environmental Specialist I

600 West Van Buren Street, Suite 500  
Chicago, Illinois 60607  
**t:** 312.762.2909 **c:** 312.659.9989  
**e:** kzelzer@calttd.com **w:** calttd.com

DRAFT



**STAT** Analysis Corporation

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

November 27, 2018

Carnow, Conibear, & Associates  
600 W. Van Buren Street  
Chicago, IL 60607

Telephone: (312) 782-4486  
Fax: (312) 782-5145

Analytical Report for STAT Work Order: 18110447 Revision 1

RE: Firestation 115B, 119th & Morgan St.

Dear Karen Zelzer:

STAT Analysis received 8 samples for the referenced project on 11/13/2018 10:53:00 AM. The analytical results are presented in the following report.

This report is revised to reflect additional analysis requested after the last report revision.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAP standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Justice Kwateng  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Carnow, Conibear, & Associates  
**Project:** Firestation 115B, 119th & Morgan St.  
**Work Order:** 18110447 Revision 1

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**Work Order Sample Summary**

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
18110447-001A	B-114B (1-3)		11/13/2018 8:06:00 AM	11/13/2018
18110447-001B	B-114B (1-3)		11/13/2018 8:06:00 AM	11/13/2018
18110447-002A	B-114B (3-5)		11/13/2018 8:08:00 AM	11/13/2018
18110447-002B	B-114B (3-5)		11/13/2018 8:08:00 AM	11/13/2018
18110447-003A	B-115B (1-3)		11/13/2018 7:35:00 AM	11/13/2018
18110447-003B	B-115B (1-3)		11/13/2018 7:35:00 AM	11/13/2018
18110447-004A	B-115B (3-5)		11/13/2018 7:40:00 AM	11/13/2018
18110447-004B	B-115B (3-5)		11/13/2018 7:40:00 AM	11/13/2018
18110447-005A	B-117B (1-3)		11/13/2018 9:00:00 AM	11/13/2018
18110447-005B	B-117B (1-3)		11/13/2018 9:00:00 AM	11/13/2018
18110447-006A	B-117B (3-5)		11/13/2018 9:05:00 AM	11/13/2018
18110447-006B	B-117B (3-5)		11/13/2018 9:05:00 AM	11/13/2018
18110447-007A	B-118B (1-3)		11/13/2018 8:30:00 AM	11/13/2018
18110447-007B	B-118B (1-3)		11/13/2018 8:30:00 AM	11/13/2018
18110447-008A	B-118B (3-5)		11/13/2018 8:32:00 AM	11/13/2018
18110447-008B	B-118B (3-5)		11/13/2018 8:32:00 AM	11/13/2018

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: November 27, 2018

**ANALYTICAL RESULTS**

Date Printed: November 27, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110447 Revision 1  
**Project:** Firestation 115B, 119th & Morgan St.  
**Lab ID:** 18110447-001

**Client Sample ID:** B-114B (1-3)  
**Collection Date:** 11/13/2018 8:06:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/15/2018		Analyst: FP
Acenaphthene	ND	0.062		mg/Kg-dry	1	11/16/2018
Acenaphthylene	ND	0.062		mg/Kg-dry	1	11/16/2018
Aniline	ND	0.62		mg/Kg-dry	1	11/16/2018
Anthracene	ND	0.062		mg/Kg-dry	1	11/16/2018
Benz(a)anthracene	0.27	0.062		mg/Kg-dry	1	11/16/2018
Benzidine	ND	0.62		mg/Kg-dry	1	11/16/2018
Benzo(a)pyrene	0.26	0.062		mg/Kg-dry	1	11/16/2018
Benzo(b)fluoranthene	0.31	0.062		mg/Kg-dry	1	11/16/2018
Benzo(g,h,i)perylene	0.18	0.062		mg/Kg-dry	1	11/16/2018
Benzo(k)fluoranthene	0.18	0.062		mg/Kg-dry	1	11/16/2018
Benzoic acid	ND	1.6		mg/Kg-dry	1	11/16/2018
Benzyl alcohol	ND	0.32		mg/Kg-dry	1	11/16/2018
Bis(2-chloroethoxy)methane	ND	0.32		mg/Kg-dry	1	11/16/2018
Bis(2-chloroethyl)ether	ND	0.32		mg/Kg-dry	1	11/16/2018
Bis(2-ethylhexyl)phthalate	ND	1.6		mg/Kg-dry	1	11/16/2018
4-Bromophenyl phenyl ether	ND	0.32		mg/Kg-dry	1	11/16/2018
Butyl benzyl phthalate	ND	0.32		mg/Kg-dry	1	11/16/2018
Carbazole	ND	0.32		mg/Kg-dry	1	11/16/2018
4-Chloroaniline	ND	0.32		mg/Kg-dry	1	11/16/2018
4-Chloro-3-methylphenol	ND	0.62		mg/Kg-dry	1	11/16/2018
2-Chloronaphthalene	ND	0.32		mg/Kg-dry	1	11/16/2018
2-Chlorophenol	ND	0.32		mg/Kg-dry	1	11/16/2018
4-Chlorophenyl phenyl ether	ND	0.32		mg/Kg-dry	1	11/16/2018
Chrysene	0.31	0.062		mg/Kg-dry	1	11/16/2018
Dibenz(a,h)anthracene	0.11	0.062		mg/Kg-dry	1	11/16/2018
Dibenzofuran	ND	0.32		mg/Kg-dry	1	11/16/2018
1,2-Dichlorobenzene	ND	0.32		mg/Kg-dry	1	11/16/2018
1,3-Dichlorobenzene	ND	0.32		mg/Kg-dry	1	11/16/2018
1,4-Dichlorobenzene	ND	0.32		mg/Kg-dry	1	11/16/2018
3,3'-Dichlorobenzidine	ND	0.32		mg/Kg-dry	1	11/16/2018
2,4-Dichlorophenol	ND	0.32		mg/Kg-dry	1	11/16/2018
Diethyl phthalate	ND	0.32		mg/Kg-dry	1	11/16/2018
2,4-Dimethylphenol	ND	0.32		mg/Kg-dry	1	11/16/2018
Dimethyl phthalate	ND	0.32		mg/Kg-dry	1	11/16/2018
4,6-Dinitro-2-methylphenol	ND	0.62		mg/Kg-dry	1	11/16/2018
2,4-Dinitrophenol	ND	1.6		mg/Kg-dry	1	11/16/2018
2,4-Dinitrotoluene	ND	0.062		mg/Kg-dry	1	11/16/2018
2,6-Dinitrotoluene	ND	0.062		mg/Kg-dry	1	11/16/2018

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
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 E - Value above quantitation range  
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Date Reported: November 27, 2018

**ANALYTICAL RESULTS**

Date Printed: November 27, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110447 Revision 1  
**Project:** Firestation 115B, 119th & Morgan St.  
**Lab ID:** 18110447-001

**Client Sample ID:** B-114B (1-3)  
**Collection Date:** 11/13/2018 8:06:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)	Prep Date: 11/15/2018		Analyst: FP	
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Di-n-butyl phthalate	ND	0.32		mg/Kg-dry	1	11/16/2018
Di-n-octyl phthalate	ND	0.32		mg/Kg-dry	1	11/16/2018
Fluoranthene	0.50	0.062		mg/Kg-dry	1	11/16/2018
Fluorene	ND	0.062		mg/Kg-dry	1	11/16/2018
Hexachlorobenzene	ND	0.32		mg/Kg-dry	1	11/16/2018
Hexachlorobutadiene	ND	0.32		mg/Kg-dry	1	11/16/2018
Hexachlorocyclopentadiene	ND	0.32		mg/Kg-dry	1	11/16/2018
Hexachloroethane	ND	0.32		mg/Kg-dry	1	11/16/2018
Indeno(1,2,3-cd)pyrene	0.18	0.062		mg/Kg-dry	1	11/16/2018
Isophorone	ND	0.32		mg/Kg-dry	1	11/16/2018
2-Methylnaphthalene	ND	0.32		mg/Kg-dry	1	11/16/2018
2-Methylphenol	ND	0.32		mg/Kg-dry	1	11/16/2018
4-Methylphenol	ND	0.32		mg/Kg-dry	1	11/16/2018
Naphthalene	ND	0.062		mg/Kg-dry	1	11/16/2018
2-Nitroaniline	ND	0.32		mg/Kg-dry	1	11/16/2018
3-Nitroaniline	ND	0.32		mg/Kg-dry	1	11/16/2018
4-Nitroaniline	ND	0.32		mg/Kg-dry	1	11/16/2018
2-Nitrophenol	ND	0.32		mg/Kg-dry	1	11/16/2018
4-Nitrophenol	ND	0.62		mg/Kg-dry	1	11/16/2018
Nitrobenzene	ND	0.062		mg/Kg-dry	1	11/16/2018
N-Nitrosodi-n-propylamine	ND	0.062		mg/Kg-dry	1	11/16/2018
N-Nitrosodimethylamine	ND	0.32		mg/Kg-dry	1	11/16/2018
N-Nitrosodiphenylamine	ND	0.32		mg/Kg-dry	1	11/16/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.32		mg/Kg-dry	1	11/16/2018
Pentachlorophenol	ND	0.13		mg/Kg-dry	1	11/16/2018
Phenanthrene	0.21	0.062		mg/Kg-dry	1	11/16/2018
Phenol	ND	0.32		mg/Kg-dry	1	11/16/2018
Pyrene	0.45	0.062		mg/Kg-dry	1	11/16/2018
Pyridine	ND	1.3		mg/Kg-dry	1	11/16/2018
1,2,4-Trichlorobenzene	ND	0.32		mg/Kg-dry	1	11/16/2018
2,4,5-Trichlorophenol	ND	0.32		mg/Kg-dry	1	11/16/2018
2,4,6-Trichlorophenol	ND	0.32		mg/Kg-dry	1	11/16/2018

Pesticides	SW8081B (SW3550B)	Prep Date: 11/15/2018		Analyst: GVC	
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4,4'-DDD	ND	0.0030		mg/Kg-dry	1	11/15/2018
4,4'-DDE	ND	0.0030		mg/Kg-dry	1	11/15/2018
4,4'-DDT	ND	0.0030		mg/Kg-dry	1	11/15/2018
Aldrin	ND	0.0030		mg/Kg-dry	1	11/15/2018
alpha-BHC	ND	0.0030		mg/Kg-dry	1	11/15/2018

**Qualifiers:**  
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Date Reported: November 27, 2018

**ANALYTICAL RESULTS**

Date Printed: November 27, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110447 Revision 1  
**Project:** Firestation 115B, 119th & Morgan St.  
**Lab ID:** 18110447-001

**Client Sample ID:** B-114B (1-3)  
**Collection Date:** 11/13/2018 8:06:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Pesticides</b>						
	<b>SW8081B (SW3550B)</b>				Prep Date: 11/15/2018	Analyst: GVC
alpha-Chlordane	ND	0.0030		mg/Kg-dry	1	11/15/2018
beta-BHC	ND	0.0030		mg/Kg-dry	1	11/15/2018
Chlordane	ND	0.030		mg/Kg-dry	1	11/15/2018
delta-BHC	ND	0.0030		mg/Kg-dry	1	11/15/2018
Dieldrin	ND	0.0030		mg/Kg-dry	1	11/15/2018
Endosulfan I	ND	0.0030		mg/Kg-dry	1	11/15/2018
Endosulfan II	ND	0.0030		mg/Kg-dry	1	11/15/2018
Endosulfan sulfate	ND	0.0030		mg/Kg-dry	1	11/15/2018
Endrin	ND	0.0030		mg/Kg-dry	1	11/15/2018
Endrin aldehyde	ND	0.0030		mg/Kg-dry	1	11/15/2018
Endrin ketone	ND	0.0030		mg/Kg-dry	1	11/15/2018
gamma-BHC	ND	0.0030		mg/Kg-dry	1	11/15/2018
gamma-Chlordane	ND	0.0030		mg/Kg-dry	1	11/15/2018
Heptachlor	ND	0.0030		mg/Kg-dry	1	11/15/2018
Heptachlor epoxide	ND	0.0030		mg/Kg-dry	1	11/15/2018
Methoxychlor	ND	0.0030		mg/Kg-dry	1	11/15/2018
Toxaphene	ND	0.062		mg/Kg-dry	1	11/15/2018
<b>Metals by ICP/MS</b>						
	<b>SW6020A (SW3050B)</b>				Prep Date: 11/16/2018	Analyst: JG
Arsenic	26	1.6		mg/Kg-dry	10	11/16/2018
Barium	290	1.6		mg/Kg-dry	10	11/16/2018
Cadmium	1.2	0.82		mg/Kg-dry	10	11/16/2018
Chromium	34	1.6		mg/Kg-dry	10	11/16/2018
Lead	290	0.82		mg/Kg-dry	10	11/16/2018
Selenium	ND	1.6		mg/Kg-dry	10	11/16/2018
Silver	5.0	1.6		mg/Kg-dry	10	11/16/2018
<b>SPLP Metals by ICP/MS</b>						
	<b>SW1312/6020A (SW3005A)</b>				Prep Date: 11/24/2018	Analyst: JG
Chromium	0.0048	0.0040		mg/L	2	11/26/2018
<b>Mercury</b>						
	<b>SW7471B</b>				Prep Date: 11/15/2018	Analyst: LB
Mercury	0.073	0.036		mg/Kg-dry	1	11/15/2018
<b>pH (25 °C)</b>						
	<b>SW9045C</b>				Prep Date: 11/19/2018	Analyst: RW
pH	8.21			pH Units	1	11/19/2018
<b>Percent Moisture</b>						
	<b>D2974</b>				Prep Date: 11/16/2018	Analyst: RW
Percent Moisture	47.1	0.2	*	wt%	1	11/17/2018

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Date Reported: November 27, 2018

**ANALYTICAL RESULTS**

Date Printed: November 27, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110447 Revision 1  
**Project:** Firestation 115B, 119th & Morgan St.  
**Lab ID:** 18110447-002

**Client Sample ID:** B-114B (3-5)  
**Collection Date:** 11/13/2018 8:08:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/15/2018		Analyst: FP
Acenaphthene	ND	0.043		mg/Kg-dry	1	11/16/2018
Acenaphthylene	ND	0.043		mg/Kg-dry	1	11/16/2018
Aniline	ND	0.44		mg/Kg-dry	1	11/16/2018
Anthracene	ND	0.043		mg/Kg-dry	1	11/16/2018
Benz(a)anthracene	ND	0.043		mg/Kg-dry	1	11/16/2018
Benzidine	ND	0.43		mg/Kg-dry	1	11/16/2018
Benzo(a)pyrene	ND	0.043		mg/Kg-dry	1	11/16/2018
Benzo(b)fluoranthene	ND	0.043		mg/Kg-dry	1	11/16/2018
Benzo(g,h,i)perylene	ND	0.043		mg/Kg-dry	1	11/16/2018
Benzo(k)fluoranthene	ND	0.043		mg/Kg-dry	1	11/16/2018
Benzoic acid	ND	1.1		mg/Kg-dry	1	11/16/2018
Benzyl alcohol	ND	0.22		mg/Kg-dry	1	11/16/2018
Bis(2-chloroethoxy)methane	ND	0.22		mg/Kg-dry	1	11/16/2018
Bis(2-chloroethyl)ether	ND	0.22		mg/Kg-dry	1	11/16/2018
Bis(2-ethylhexyl)phthalate	ND	1.1		mg/Kg-dry	1	11/16/2018
4-Bromophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	11/16/2018
Butyl benzyl phthalate	ND	0.22		mg/Kg-dry	1	11/16/2018
Carbazole	ND	0.22		mg/Kg-dry	1	11/16/2018
4-Chloroaniline	ND	0.22		mg/Kg-dry	1	11/16/2018
4-Chloro-3-methylphenol	ND	0.43		mg/Kg-dry	1	11/16/2018
2-Chloronaphthalene	ND	0.22		mg/Kg-dry	1	11/16/2018
2-Chlorophenol	ND	0.22		mg/Kg-dry	1	11/16/2018
4-Chlorophenyl phenyl ether	ND	0.22		mg/Kg-dry	1	11/16/2018
Chrysene	ND	0.043		mg/Kg-dry	1	11/16/2018
Dibenz(a,h)anthracene	ND	0.043		mg/Kg-dry	1	11/16/2018
Dibenzofuran	ND	0.22		mg/Kg-dry	1	11/16/2018
1,2-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	11/16/2018
1,3-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	11/16/2018
1,4-Dichlorobenzene	ND	0.22		mg/Kg-dry	1	11/16/2018
3,3'-Dichlorobenzidine	ND	0.22		mg/Kg-dry	1	11/16/2018
2,4-Dichlorophenol	ND	0.22		mg/Kg-dry	1	11/16/2018
Diethyl phthalate	ND	0.22		mg/Kg-dry	1	11/16/2018
2,4-Dimethylphenol	ND	0.22		mg/Kg-dry	1	11/16/2018
Dimethyl phthalate	ND	0.22		mg/Kg-dry	1	11/16/2018
4,6-Dinitro-2-methylphenol	ND	0.43		mg/Kg-dry	1	11/16/2018
2,4-Dinitrophenol	ND	1.1		mg/Kg-dry	1	11/16/2018
2,4-Dinitrotoluene	ND	0.043		mg/Kg-dry	1	11/16/2018
2,6-Dinitrotoluene	ND	0.043		mg/Kg-dry	1	11/16/2018

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
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Date Reported: November 27, 2018

**ANALYTICAL RESULTS**

Date Printed: November 27, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110447 Revision 1  
**Project:** Firestation 115B, 119th & Morgan St.  
**Lab ID:** 18110447-002

**Client Sample ID:** B-114B (3-5)  
**Collection Date:** 11/13/2018 8:08:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/15/2018		Analyst: FP
Di-n-butyl phthalate	ND	0.22		mg/Kg-dry	1	11/16/2018
Di-n-octyl phthalate	ND	0.22		mg/Kg-dry	1	11/16/2018
Fluoranthene	ND	0.043		mg/Kg-dry	1	11/16/2018
Fluorene	ND	0.043		mg/Kg-dry	1	11/16/2018
Hexachlorobenzene	ND	0.22		mg/Kg-dry	1	11/16/2018
Hexachlorobutadiene	ND	0.22		mg/Kg-dry	1	11/16/2018
Hexachlorocyclopentadiene	ND	0.22		mg/Kg-dry	1	11/16/2018
Hexachloroethane	ND	0.22		mg/Kg-dry	1	11/16/2018
Indeno(1,2,3-cd)pyrene	ND	0.043		mg/Kg-dry	1	11/16/2018
Isophorone	ND	0.22		mg/Kg-dry	1	11/16/2018
2-Methylnaphthalene	ND	0.22		mg/Kg-dry	1	11/16/2018
2-Methylphenol	ND	0.22		mg/Kg-dry	1	11/16/2018
4-Methylphenol	ND	0.22		mg/Kg-dry	1	11/16/2018
Naphthalene	ND	0.043		mg/Kg-dry	1	11/16/2018
2-Nitroaniline	ND	0.22		mg/Kg-dry	1	11/16/2018
3-Nitroaniline	ND	0.22		mg/Kg-dry	1	11/16/2018
4-Nitroaniline	ND	0.22		mg/Kg-dry	1	11/16/2018
2-Nitrophenol	ND	0.22		mg/Kg-dry	1	11/16/2018
4-Nitrophenol	ND	0.43		mg/Kg-dry	1	11/16/2018
Nitrobenzene	ND	0.043		mg/Kg-dry	1	11/16/2018
N-Nitrosodi-n-propylamine	ND	0.043		mg/Kg-dry	1	11/16/2018
N-Nitrosodimethylamine	ND	0.22		mg/Kg-dry	1	11/16/2018
N-Nitrosodiphenylamine	ND	0.22		mg/Kg-dry	1	11/16/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.22		mg/Kg-dry	1	11/16/2018
Pentachlorophenol	ND	0.088		mg/Kg-dry	1	11/16/2018
Phenanthrene	ND	0.043		mg/Kg-dry	1	11/16/2018
Phenol	ND	0.22		mg/Kg-dry	1	11/16/2018
Pyrene	ND	0.043		mg/Kg-dry	1	11/16/2018
Pyridine	ND	0.88		mg/Kg-dry	1	11/16/2018
1,2,4-Trichlorobenzene	ND	0.22		mg/Kg-dry	1	11/16/2018
2,4,5-Trichlorophenol	ND	0.22		mg/Kg-dry	1	11/16/2018
2,4,6-Trichlorophenol	ND	0.22		mg/Kg-dry	1	11/16/2018
<b>Pesticides</b>		<b>SW8081B (SW3550B)</b>		Prep Date: 11/15/2018		Analyst: GVC
4,4'-DDD	ND	0.0021		mg/Kg-dry	1	11/15/2018
4,4'-DDE	ND	0.0021		mg/Kg-dry	1	11/15/2018
4,4'-DDT	ND	0.0021		mg/Kg-dry	1	11/15/2018
Aldrin	ND	0.0021		mg/Kg-dry	1	11/15/2018
alpha-BHC	ND	0.0021		mg/Kg-dry	1	11/15/2018

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

**Qualifiers:**

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: November 27, 2018

**ANALYTICAL RESULTS**

Date Printed: November 27, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110447 Revision 1  
**Project:** Firestation 115B, 119th & Morgan St.  
**Lab ID:** 18110447-002

**Client Sample ID:** B-114B (3-5)  
**Collection Date:** 11/13/2018 8:08:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Pesticides</b>						
	<b>SW8081B (SW3550B)</b>			Prep Date: 11/15/2018		Analyst: GVC
alpha-Chlordane	ND	0.0021		mg/Kg-dry	1	11/15/2018
beta-BHC	ND	0.0021		mg/Kg-dry	1	11/15/2018
Chlordane	ND	0.021		mg/Kg-dry	1	11/15/2018
delta-BHC	ND	0.0021		mg/Kg-dry	1	11/15/2018
Dieldrin	ND	0.0021		mg/Kg-dry	1	11/15/2018
Endosulfan I	ND	0.0021		mg/Kg-dry	1	11/15/2018
Endosulfan II	ND	0.0021		mg/Kg-dry	1	11/15/2018
Endosulfan sulfate	ND	0.0021		mg/Kg-dry	1	11/15/2018
Endrin	ND	0.0021		mg/Kg-dry	1	11/15/2018
Endrin aldehyde	ND	0.0021		mg/Kg-dry	1	11/15/2018
Endrin ketone	ND	0.0021		mg/Kg-dry	1	11/15/2018
gamma-BHC	ND	0.0021		mg/Kg-dry	1	11/15/2018
gamma-Chlordane	ND	0.0021		mg/Kg-dry	1	11/15/2018
Heptachlor	ND	0.0021		mg/Kg-dry	1	11/15/2018
Heptachlor epoxide	ND	0.0021		mg/Kg-dry	1	11/15/2018
Methoxychlor	ND	0.0021		mg/Kg-dry	1	11/15/2018
Toxaphene	ND	0.043		mg/Kg-dry	1	11/15/2018
<b>Metals by ICP/MS</b>						
	<b>SW6020A (SW3050B)</b>			Prep Date: 11/16/2018		Analyst: JG
Arsenic	5.3	1.1		mg/Kg-dry	10	11/16/2018
Barium	65	1.1		mg/Kg-dry	10	11/16/2018
Cadmium	ND	0.56		mg/Kg-dry	10	11/16/2018
Chromium	13	1.1		mg/Kg-dry	10	11/16/2018
Lead	18	0.56		mg/Kg-dry	10	11/16/2018
Selenium	ND	1.1		mg/Kg-dry	10	11/16/2018
Silver	ND	1.1		mg/Kg-dry	10	11/16/2018
<b>Mercury</b>						
	<b>SW7471B</b>			Prep Date: 11/15/2018		Analyst: LB
Mercury	ND	0.023		mg/Kg-dry	1	11/15/2018
<b>pH (25 °C)</b>						
	<b>SW9045C</b>			Prep Date: 11/19/2018		Analyst: RW
pH	7.37			pH Units	1	11/19/2018
<b>Percent Moisture</b>						
	<b>D2974</b>			Prep Date: 11/16/2018		Analyst: RW
Percent Moisture	24.6	0.2	*	wt%	1	11/17/2018

**Qualifiers:**  
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 HT - Sample received past holding time  
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Date Reported: November 27, 2018

**ANALYTICAL RESULTS**

Date Printed: November 27, 2018

Client: Carnow, Conibear, & Associates  
 Work Order: 18110447 Revision 1  
 Project: Firestation 115B, 119th & Morgan St.  
 Lab ID: 18110447-003

Client Sample ID: B-115B (1-3)  
 Collection Date: 11/13/2018 7:35:00 AM  
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: 11/13/2018		Analyst: MJK
Acetone	ND	0.098		mg/Kg-dry	1	11/14/2018
Benzene	ND	0.0064		mg/Kg-dry	1	11/14/2018
Bromodichloromethane	ND	0.0064		mg/Kg-dry	1	11/14/2018
Bromoform	ND	0.0064		mg/Kg-dry	1	11/14/2018
Bromomethane	ND	0.013		mg/Kg-dry	1	11/14/2018
2-Butanone	ND	0.098		mg/Kg-dry	1	11/14/2018
Carbon disulfide	ND	0.064		mg/Kg-dry	1	11/14/2018
Carbon tetrachloride	ND	0.0064		mg/Kg-dry	1	11/14/2018
Chlorobenzene	ND	0.0064		mg/Kg-dry	1	11/14/2018
Chloroethane	ND	0.013		mg/Kg-dry	1	11/14/2018
Chloroform	ND	0.0064		mg/Kg-dry	1	11/14/2018
Chloromethane	ND	0.013		mg/Kg-dry	1	11/14/2018
Dibromochloromethane	ND	0.0064		mg/Kg-dry	1	11/14/2018
1,1-Dichloroethane	ND	0.0064		mg/Kg-dry	1	11/14/2018
1,2-Dichloroethane	ND	0.0064		mg/Kg-dry	1	11/14/2018
1,1-Dichloroethene	ND	0.0064		mg/Kg-dry	1	11/14/2018
cis-1,2-Dichloroethene	ND	0.0064		mg/Kg-dry	1	11/14/2018
trans-1,2-Dichloroethene	ND	0.0064		mg/Kg-dry	1	11/14/2018
1,2-Dichloropropane	ND	0.0064		mg/Kg-dry	1	11/14/2018
cis-1,3-Dichloropropene	ND	0.0026		mg/Kg-dry	1	11/14/2018
trans-1,3-Dichloropropene	ND	0.0026		mg/Kg-dry	1	11/14/2018
Ethylbenzene	ND	0.0064		mg/Kg-dry	1	11/14/2018
2-Hexanone	ND	0.026		mg/Kg-dry	1	11/14/2018
4-Methyl-2-pentanone	ND	0.026		mg/Kg-dry	1	11/14/2018
Methylene chloride	ND	0.013		mg/Kg-dry	1	11/14/2018
Methyl tert-butyl ether	ND	0.0064		mg/Kg-dry	1	11/14/2018
Styrene	ND	0.0064		mg/Kg-dry	1	11/14/2018
1,1,2,2-Tetrachloroethane	ND	0.0064		mg/Kg-dry	1	11/14/2018
Tetrachloroethene	ND	0.0064		mg/Kg-dry	1	11/14/2018
Toluene	ND	0.0064		mg/Kg-dry	1	11/14/2018
1,1,1-Trichloroethane	ND	0.0064		mg/Kg-dry	1	11/14/2018
1,1,2-Trichloroethane	ND	0.0064		mg/Kg-dry	1	11/14/2018
Trichloroethene	ND	0.0064		mg/Kg-dry	1	11/14/2018
Vinyl chloride	ND	0.0064		mg/Kg-dry	1	11/14/2018
Xylenes, Total	ND	0.019		mg/Kg-dry	1	11/14/2018
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/15/2018		Analyst: FP
Acenaphthene	ND	0.039		mg/Kg-dry	1	11/16/2018
Acenaphthylene	ND	0.039		mg/Kg-dry	1	11/16/2018

**Qualifiers:**  
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 HT - Sample received past holding time  
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Date Reported: November 27, 2018

**ANALYTICAL RESULTS**

Date Printed: November 27, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110447 Revision 1  
**Project:** Firestation 115B, 119th & Morgan St.  
**Lab ID:** 18110447-003

**Client Sample ID:** B-115B (1-3)  
**Collection Date:** 11/13/2018 7:35:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/15/2018		Analyst: FP
Aniline	ND	0.39		mg/Kg-dry	1	11/16/2018
Anthracene	ND	0.039		mg/Kg-dry	1	11/16/2018
Benz(a)anthracene	0.13	0.039		mg/Kg-dry	1	11/16/2018
Benzidine	ND	0.39		mg/Kg-dry	1	11/16/2018
Benzo(a)pyrene	0.15	0.039		mg/Kg-dry	1	11/16/2018
Benzo(b)fluoranthene	0.15	0.039		mg/Kg-dry	1	11/16/2018
Benzo(g,h,i)perylene	0.12	0.039		mg/Kg-dry	1	11/16/2018
Benzo(k)fluoranthene	0.12	0.039		mg/Kg-dry	1	11/16/2018
Benzoic acid	ND	0.97		mg/Kg-dry	1	11/16/2018
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	11/16/2018
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	11/16/2018
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	11/16/2018
Bis(2-ethylhexyl)phthalate	ND	0.97		mg/Kg-dry	1	11/16/2018
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	11/16/2018
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	11/16/2018
Carbazole	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	11/16/2018
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	11/16/2018
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	11/16/2018
Chrysene	0.15	0.039		mg/Kg-dry	1	11/16/2018
Dibenz(a,h)anthracene	0.060	0.039		mg/Kg-dry	1	11/16/2018
Dibenzofuran	ND	0.20		mg/Kg-dry	1	11/16/2018
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/16/2018
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/16/2018
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/16/2018
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	11/16/2018
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	11/16/2018
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	11/16/2018
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	11/16/2018
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	11/16/2018
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	11/16/2018
2,4-Dinitrophenol	ND	0.97		mg/Kg-dry	1	11/16/2018
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	11/16/2018
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	11/16/2018
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	11/16/2018
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	11/16/2018

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Date Reported: November 27, 2018

**ANALYTICAL RESULTS**

Date Printed: November 27, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110447 Revision 1  
**Project:** Firestation 115B, 119th & Morgan St.  
**Lab ID:** 18110447-003

**Client Sample ID:** B-115B (1-3)  
**Collection Date:** 11/13/2018 7:35:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>						
	<b>SW8270C (SW3550B)</b>				Prep Date: 11/15/2018	Analyst: FP
Fluoranthene	0.20	0.039		mg/Kg-dry	1	11/16/2018
Fluorene	ND	0.039		mg/Kg-dry	1	11/16/2018
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	11/16/2018
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	11/16/2018
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	11/16/2018
Hexachloroethane	ND	0.20		mg/Kg-dry	1	11/16/2018
Indeno(1,2,3-cd)pyrene	0.10	0.039		mg/Kg-dry	1	11/16/2018
Isophorone	ND	0.20		mg/Kg-dry	1	11/16/2018
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	11/16/2018
2-Methylphenol	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Methylphenol	ND	0.20		mg/Kg-dry	1	11/16/2018
Naphthalene	ND	0.039		mg/Kg-dry	1	11/16/2018
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/16/2018
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/16/2018
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	11/16/2018
Nitrobenzene	ND	0.039		mg/Kg-dry	1	11/16/2018
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	11/16/2018
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	11/16/2018
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	11/16/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	11/16/2018
Pentachlorophenol	ND	0.078		mg/Kg-dry	1	11/16/2018
Phenanthrene	0.089	0.039		mg/Kg-dry	1	11/16/2018
Phenol	ND	0.20		mg/Kg-dry	1	11/16/2018
Pyrene	0.22	0.039		mg/Kg-dry	1	11/16/2018
Pyridine	ND	0.78		mg/Kg-dry	1	11/16/2018
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	11/16/2018
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	11/16/2018
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	11/16/2018
<b>Metals by ICP/MS</b>						
	<b>SW6020A (SW3050B)</b>				Prep Date: 11/16/2018	Analyst: JG
Arsenic	19	1.0		mg/Kg-dry	10	11/16/2018
Barium	250	1.0		mg/Kg-dry	10	11/16/2018
Cadmium	1.1	0.52		mg/Kg-dry	10	11/16/2018
Chromium	23	1.0		mg/Kg-dry	10	11/16/2018
Lead	400	0.52		mg/Kg-dry	10	11/16/2018
Selenium	ND	1.0		mg/Kg-dry	10	11/16/2018
Silver	ND	1.0		mg/Kg-dry	10	11/16/2018

ND - Not Detected at the Reporting Limit

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R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

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Date Reported: November 27, 2018

**ANALYTICAL RESULTS**

Date Printed: November 27, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110447 Revision 1  
**Project:** Firestation 115B, 119th & Morgan St.  
**Lab ID:** 18110447-003

**Client Sample ID:** B-115B (1-3)  
**Collection Date:** 11/13/2018 7:35:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b> Mercury	<b>SW7471B</b> 1.7		0.10	mg/Kg-dry	5	Prep Date: <b>11/15/2018</b> Analyst: <b>LB</b> 11/15/2018
<b>pH (25 °C)</b> pH	<b>SW9045C</b> 7.92			pH Units	1	Prep Date: <b>11/19/2018</b> Analyst: <b>RW</b> 11/19/2018
<b>Percent Moisture</b> Percent Moisture	<b>D2974</b> 16.1	0.2	*	wt%	1	Prep Date: <b>11/16/2018</b> Analyst: <b>RW</b> 11/17/2018

DRAFT

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Date Reported: November 27, 2018

**ANALYTICAL RESULTS**

Date Printed: November 27, 2018

Client: Carnow, Conibear, & Associates  
 Work Order: 18110447 Revision 1  
 Project: Firestation 115B, 119th & Morgan St.  
 Lab ID: 18110447-004

Client Sample ID: B-115B (3-5)  
 Collection Date: 11/13/2018 7:40:00 AM  
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: 11/13/2018		Analyst: MJK
Acetone	ND	0.086		mg/Kg-dry	1	11/14/2018
Benzene	ND	0.0058		mg/Kg-dry	1	11/14/2018
Bromodichloromethane	ND	0.0058		mg/Kg-dry	1	11/14/2018
Bromoform	ND	0.0058		mg/Kg-dry	1	11/14/2018
Bromomethane	ND	0.012		mg/Kg-dry	1	11/14/2018
2-Butanone	ND	0.086		mg/Kg-dry	1	11/14/2018
Carbon disulfide	ND	0.058		mg/Kg-dry	1	11/14/2018
Carbon tetrachloride	ND	0.0058		mg/Kg-dry	1	11/14/2018
Chlorobenzene	ND	0.0058		mg/Kg-dry	1	11/14/2018
Chloroethane	ND	0.012		mg/Kg-dry	1	11/14/2018
Chloroform	ND	0.0058		mg/Kg-dry	1	11/14/2018
Chloromethane	ND	0.012		mg/Kg-dry	1	11/14/2018
Dibromochloromethane	ND	0.0058		mg/Kg-dry	1	11/14/2018
1,1-Dichloroethane	ND	0.0058		mg/Kg-dry	1	11/14/2018
1,2-Dichloroethane	ND	0.0058		mg/Kg-dry	1	11/14/2018
1,1-Dichloroethene	ND	0.0058		mg/Kg-dry	1	11/14/2018
cis-1,2-Dichloroethene	ND	0.0058		mg/Kg-dry	1	11/14/2018
trans-1,2-Dichloroethene	ND	0.0058		mg/Kg-dry	1	11/14/2018
1,2-Dichloropropane	ND	0.0058		mg/Kg-dry	1	11/14/2018
cis-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	11/14/2018
trans-1,3-Dichloropropene	ND	0.0023		mg/Kg-dry	1	11/14/2018
Ethylbenzene	ND	0.0058		mg/Kg-dry	1	11/14/2018
2-Hexanone	ND	0.023		mg/Kg-dry	1	11/14/2018
4-Methyl-2-pentanone	ND	0.023		mg/Kg-dry	1	11/14/2018
Methylene chloride	ND	0.012		mg/Kg-dry	1	11/14/2018
Methyl tert-butyl ether	ND	0.0058		mg/Kg-dry	1	11/14/2018
Styrene	ND	0.0058		mg/Kg-dry	1	11/14/2018
1,1,2,2-Tetrachloroethane	ND	0.0058		mg/Kg-dry	1	11/14/2018
Tetrachloroethene	ND	0.0058		mg/Kg-dry	1	11/14/2018
Toluene	ND	0.0058		mg/Kg-dry	1	11/14/2018
1,1,1-Trichloroethane	ND	0.0058		mg/Kg-dry	1	11/14/2018
1,1,2-Trichloroethane	ND	0.0058		mg/Kg-dry	1	11/14/2018
Trichloroethene	ND	0.0058		mg/Kg-dry	1	11/14/2018
Vinyl chloride	ND	0.0058		mg/Kg-dry	1	11/14/2018
Xylenes, Total	ND	0.017		mg/Kg-dry	1	11/14/2018
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/15/2018		Analyst: FP
Acenaphthene	ND	0.040		mg/Kg-dry	1	11/16/2018
Acenaphthylene	ND	0.040		mg/Kg-dry	1	11/16/2018

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
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 S - Spike Recovery outside accepted recovery limits  
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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: November 27, 2018

**ANALYTICAL RESULTS**

Date Printed: November 27, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110447 Revision 1  
**Project:** Firestation 115B, 119th & Morgan St.  
**Lab ID:** 18110447-004

**Client Sample ID:** B-115B (3-5)  
**Collection Date:** 11/13/2018 7:40:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/15/2018		Analyst: FP
Aniline	ND	0.40		mg/Kg-dry	1	11/16/2018
Anthracene	ND	0.040		mg/Kg-dry	1	11/16/2018
Benz(a)anthracene	ND	0.040		mg/Kg-dry	1	11/16/2018
Benzidine	ND	0.40		mg/Kg-dry	1	11/16/2018
Benzo(a)pyrene	ND	0.040		mg/Kg-dry	1	11/16/2018
Benzo(b)fluoranthene	ND	0.040		mg/Kg-dry	1	11/16/2018
Benzo(g,h,i)perylene	ND	0.040		mg/Kg-dry	1	11/16/2018
Benzo(k)fluoranthene	ND	0.040		mg/Kg-dry	1	11/16/2018
Benzoic acid	ND	1.0		mg/Kg-dry	1	11/16/2018
Benzyl alcohol	ND	0.21		mg/Kg-dry	1	11/16/2018
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	11/16/2018
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	11/16/2018
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg-dry	1	11/16/2018
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	11/16/2018
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	11/16/2018
Carbazole	ND	0.21		mg/Kg-dry	1	11/16/2018
4-Chloroaniline	ND	0.21		mg/Kg-dry	1	11/16/2018
4-Chloro-3-methylphenol	ND	0.40		mg/Kg-dry	1	11/16/2018
2-Chloronaphthalene	ND	0.21		mg/Kg-dry	1	11/16/2018
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	11/16/2018
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	11/16/2018
Chrysene	ND	0.040		mg/Kg-dry	1	11/16/2018
Dibenz(a,h)anthracene	ND	0.040		mg/Kg-dry	1	11/16/2018
Dibenzofuran	ND	0.21		mg/Kg-dry	1	11/16/2018
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	11/16/2018
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	11/16/2018
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	11/16/2018
3,3'-Dichlorobenzidine	ND	0.21		mg/Kg-dry	1	11/16/2018
2,4-Dichlorophenol	ND	0.21		mg/Kg-dry	1	11/16/2018
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	11/16/2018
2,4-Dimethylphenol	ND	0.21		mg/Kg-dry	1	11/16/2018
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	11/16/2018
4,6-Dinitro-2-methylphenol	ND	0.40		mg/Kg-dry	1	11/16/2018
2,4-Dinitrophenol	ND	1.0		mg/Kg-dry	1	11/16/2018
2,4-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	11/16/2018
2,6-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	11/16/2018
Di-n-butyl phthalate	ND	0.21		mg/Kg-dry	1	11/16/2018
Di-n-octyl phthalate	ND	0.21		mg/Kg-dry	1	11/16/2018

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Date Reported: November 27, 2018

**ANALYTICAL RESULTS**

Date Printed: November 27, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110447 Revision 1  
**Project:** Firestation 115B, 119th & Morgan St.  
**Lab ID:** 18110447-004

**Client Sample ID:** B-115B (3-5)  
**Collection Date:** 11/13/2018 7:40:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/15/2018		Analyst: FP
Fluoranthene	ND	0.040		mg/Kg-dry	1	11/16/2018
Fluorene	ND	0.040		mg/Kg-dry	1	11/16/2018
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	11/16/2018
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	11/16/2018
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	11/16/2018
Hexachloroethane	ND	0.21		mg/Kg-dry	1	11/16/2018
Indeno(1,2,3-cd)pyrene	ND	0.040		mg/Kg-dry	1	11/16/2018
Isophorone	ND	0.21		mg/Kg-dry	1	11/16/2018
2-Methylnaphthalene	ND	0.21		mg/Kg-dry	1	11/16/2018
2-Methylphenol	ND	0.21		mg/Kg-dry	1	11/16/2018
4-Methylphenol	ND	0.21		mg/Kg-dry	1	11/16/2018
Naphthalene	ND	0.040		mg/Kg-dry	1	11/16/2018
2-Nitroaniline	ND	0.21		mg/Kg-dry	1	11/16/2018
3-Nitroaniline	ND	0.21		mg/Kg-dry	1	11/16/2018
4-Nitroaniline	ND	0.21		mg/Kg-dry	1	11/16/2018
2-Nitrophenol	ND	0.21		mg/Kg-dry	1	11/16/2018
4-Nitrophenol	ND	0.40		mg/Kg-dry	1	11/16/2018
Nitrobenzene	ND	0.040		mg/Kg-dry	1	11/16/2018
N-Nitrosodi-n-propylamine	ND	0.040		mg/Kg-dry	1	11/16/2018
N-Nitrosodimethylamine	ND	0.21		mg/Kg-dry	1	11/16/2018
N-Nitrosodiphenylamine	ND	0.21		mg/Kg-dry	1	11/16/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.21		mg/Kg-dry	1	11/16/2018
Pentachlorophenol	ND	0.081		mg/Kg-dry	1	11/16/2018
Phenanthrene	ND	0.040		mg/Kg-dry	1	11/16/2018
Phenol	ND	0.21		mg/Kg-dry	1	11/16/2018
Pyrene	ND	0.040		mg/Kg-dry	1	11/16/2018
Pyridine	ND	0.81		mg/Kg-dry	1	11/16/2018
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	1	11/16/2018
2,4,5-Trichlorophenol	ND	0.21		mg/Kg-dry	1	11/16/2018
2,4,6-Trichlorophenol	ND	0.21		mg/Kg-dry	1	11/16/2018
<b>Metals by ICP/MS</b>		<b>SW6020A (SW3050B)</b>		Prep Date: 11/16/2018		Analyst: JG
Arsenic	7.9	1.1		mg/Kg-dry	10	11/16/2018
Barium	64	1.1		mg/Kg-dry	10	11/16/2018
Cadmium	ND	0.53		mg/Kg-dry	10	11/16/2018
Chromium	16	1.1		mg/Kg-dry	10	11/16/2018
Lead	19	0.53		mg/Kg-dry	10	11/16/2018
Selenium	ND	1.1		mg/Kg-dry	10	11/16/2018
Silver	ND	1.1		mg/Kg-dry	10	11/16/2018

**Qualifiers:**  
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Date Reported: November 27, 2018

**ANALYTICAL RESULTS**

Date Printed: November 27, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110447 Revision 1  
**Project:** Firestation 115B, 119th & Morgan St.  
**Lab ID:** 18110447-004

**Client Sample ID:** B-115B (3-5)  
**Collection Date:** 11/13/2018 7:40:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b> Mercury	<b>SW7471B</b> ND	0.022		mg/Kg-dry	1	Prep Date: <b>11/15/2018</b> Analyst: <b>LB</b> 11/15/2018
<b>pH (25 °C)</b> pH	<b>SW9045C</b> 7.31			pH Units	1	Prep Date: <b>11/19/2018</b> Analyst: <b>RW</b> 11/19/2018
<b>Percent Moisture</b> Percent Moisture	<b>D2974</b> 17.9	0.2	*	wt%	1	Prep Date: <b>11/16/2018</b> Analyst: <b>RW</b> 11/17/2018

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Date Reported: November 27, 2018

**ANALYTICAL RESULTS**

Date Printed: November 27, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110447 Revision 1  
**Project:** Firestation 115B, 119th & Morgan St.  
**Lab ID:** 18110447-005

**Client Sample ID:** B-117B (1-3)  
**Collection Date:** 11/13/2018 9:00:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C (SW3550B)</b>					Prep Date: 11/15/2018 Analyst: FP
Acenaphthene	ND	0.040		mg/Kg-dry	1	11/16/2018
Acenaphthylene	ND	0.040		mg/Kg-dry	1	11/16/2018
Aniline	ND	0.40		mg/Kg-dry	1	11/16/2018
Anthracene	ND	0.040		mg/Kg-dry	1	11/16/2018
Benz(a)anthracene	ND	0.040		mg/Kg-dry	1	11/16/2018
Benzidine	ND	0.40		mg/Kg-dry	1	11/16/2018
Benzo(a)pyrene	ND	0.040		mg/Kg-dry	1	11/16/2018
Benzo(b)fluoranthene	ND	0.040		mg/Kg-dry	1	11/16/2018
Benzo(g,h,i)perylene	ND	0.040		mg/Kg-dry	1	11/16/2018
Benzo(k)fluoranthene	ND	0.040		mg/Kg-dry	1	11/16/2018
Benzoic acid	ND	1.0		mg/Kg-dry	1	11/16/2018
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	11/16/2018
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	11/16/2018
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	11/16/2018
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg-dry	1	11/16/2018
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	11/16/2018
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	11/16/2018
Carbazole	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Chloro-3-methylphenol	ND	0.40		mg/Kg-dry	1	11/16/2018
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	11/16/2018
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	11/16/2018
Chrysene	ND	0.040		mg/Kg-dry	1	11/16/2018
Dibenz(a,h)anthracene	ND	0.040		mg/Kg-dry	1	11/16/2018
Dibenzofuran	ND	0.20		mg/Kg-dry	1	11/16/2018
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/16/2018
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/16/2018
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/16/2018
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	11/16/2018
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	11/16/2018
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	11/16/2018
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	11/16/2018
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	11/16/2018
4,6-Dinitro-2-methylphenol	ND	0.40		mg/Kg-dry	1	11/16/2018
2,4-Dinitrophenol	ND	1.0		mg/Kg-dry	1	11/16/2018
2,4-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	11/16/2018
2,6-Dinitrotoluene	ND	0.040		mg/Kg-dry	1	11/16/2018

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Date Reported: November 27, 2018

**ANALYTICAL RESULTS**

Date Printed: November 27, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110447 Revision 1  
**Project:** Firestation 115B, 119th & Morgan St.  
**Lab ID:** 18110447-005

**Client Sample ID:** B-117B (1-3)  
**Collection Date:** 11/13/2018 9:00:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)	Prep Date: 11/15/2018		Analyst: FP	
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Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	11/16/2018
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	11/16/2018
Fluoranthene	ND	0.040		mg/Kg-dry	1	11/16/2018
Fluorene	ND	0.040		mg/Kg-dry	1	11/16/2018
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	11/16/2018
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	11/16/2018
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	11/16/2018
Hexachloroethane	ND	0.20		mg/Kg-dry	1	11/16/2018
Indeno(1,2,3-cd)pyrene	ND	0.040		mg/Kg-dry	1	11/16/2018
Isophorone	ND	0.20		mg/Kg-dry	1	11/16/2018
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	11/16/2018
2-Methylphenol	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Methylphenol	ND	0.20		mg/Kg-dry	1	11/16/2018
Naphthalene	ND	0.040		mg/Kg-dry	1	11/16/2018
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/16/2018
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/16/2018
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Nitrophenol	ND	0.40		mg/Kg-dry	1	11/16/2018
Nitrobenzene	ND	0.040		mg/Kg-dry	1	11/16/2018
N-Nitrosodi-n-propylamine	ND	0.040		mg/Kg-dry	1	11/16/2018
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	11/16/2018
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	11/16/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	11/16/2018
Pentachlorophenol	ND	0.080		mg/Kg-dry	1	11/16/2018
Phenanthrene	ND	0.040		mg/Kg-dry	1	11/16/2018
Phenol	ND	0.20		mg/Kg-dry	1	11/16/2018
Pyrene	ND	0.040		mg/Kg-dry	1	11/16/2018
Pyridine	ND	0.80		mg/Kg-dry	1	11/16/2018
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	11/16/2018
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	11/16/2018
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	11/16/2018

Metals by ICP/MS	SW6020A (SW3050B)	Prep Date: 11/16/2018		Analyst: JG	
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Arsenic	14	1.1		mg/Kg-dry	10	11/16/2018
Barium	77	1.1		mg/Kg-dry	10	11/16/2018
Cadmium	4.2	0.54		mg/Kg-dry	10	11/16/2018
Chromium	13	1.1		mg/Kg-dry	10	11/16/2018
Lead	77	0.54		mg/Kg-dry	10	11/16/2018

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Date Reported: November 27, 2018

**ANALYTICAL RESULTS**

Date Printed: November 27, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110447 Revision 1  
**Project:** Firestation 115B, 119th & Morgan St.  
**Lab ID:** 18110447-005

**Client Sample ID:** B-117B (1-3)  
**Collection Date:** 11/13/2018 9:00:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020A (SW3050B)</b>		Prep Date: 11/16/2018		Analyst: JG	
Selenium	2.4	1.1		mg/Kg-dry	10	11/16/2018
Silver	ND	1.1		mg/Kg-dry	10	11/16/2018
<b>Mercury</b>	<b>SW7471B</b>		Prep Date: 11/15/2018		Analyst: LB	
Mercury	ND	0.023		mg/Kg-dry	1	11/15/2018
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: 11/19/2018		Analyst: RW	
pH	7.88			pH Units	1	11/19/2018
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: 11/16/2018		Analyst: RW	
Percent Moisture	16.9	0.2	*	wt%	1	11/17/2018

DRAFT

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: November 27, 2018

**ANALYTICAL RESULTS**

Date Printed: November 27, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110447 Revision 1  
**Project:** Firestation 115B, 119th & Morgan St.  
**Lab ID:** 18110447-006

**Client Sample ID:** B-117B (3-5)  
**Collection Date:** 11/13/2018 9:05:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/15/2018		Analyst: FP
Acenaphthene	ND	0.038		mg/Kg-dry	1	11/16/2018
Acenaphthylene	ND	0.038		mg/Kg-dry	1	11/16/2018
Aniline	ND	0.38		mg/Kg-dry	1	11/16/2018
Anthracene	ND	0.038		mg/Kg-dry	1	11/16/2018
Benz(a)anthracene	ND	0.038		mg/Kg-dry	1	11/16/2018
Benzidine	ND	0.38		mg/Kg-dry	1	11/16/2018
Benzo(a)pyrene	ND	0.038		mg/Kg-dry	1	11/16/2018
Benzo(b)fluoranthene	ND	0.038		mg/Kg-dry	1	11/16/2018
Benzo(g,h,i)perylene	ND	0.038		mg/Kg-dry	1	11/16/2018
Benzo(k)fluoranthene	ND	0.038		mg/Kg-dry	1	11/16/2018
Benzoic acid	ND	0.96		mg/Kg-dry	1	11/16/2018
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	11/16/2018
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	11/16/2018
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	11/16/2018
Bis(2-ethylhexyl)phthalate	ND	0.96		mg/Kg-dry	1	11/16/2018
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	11/16/2018
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	11/16/2018
Carbazole	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Chloro-3-methylphenol	ND	0.38		mg/Kg-dry	1	11/16/2018
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	11/16/2018
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	11/16/2018
Chrysene	ND	0.038		mg/Kg-dry	1	11/16/2018
Dibenz(a,h)anthracene	ND	0.038		mg/Kg-dry	1	11/16/2018
Dibenzofuran	ND	0.20		mg/Kg-dry	1	11/16/2018
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/16/2018
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/16/2018
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/16/2018
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	11/16/2018
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	11/16/2018
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	11/16/2018
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	11/16/2018
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	11/16/2018
4,6-Dinitro-2-methylphenol	ND	0.38		mg/Kg-dry	1	11/16/2018
2,4-Dinitrophenol	ND	0.96		mg/Kg-dry	1	11/16/2018
2,4-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	11/16/2018
2,6-Dinitrotoluene	ND	0.038		mg/Kg-dry	1	11/16/2018

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Date Reported: November 27, 2018

**ANALYTICAL RESULTS**

Date Printed: November 27, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110447 Revision 1  
**Project:** Firestation 115B, 119th & Morgan St.  
**Lab ID:** 18110447-006

**Client Sample ID:** B-117B (3-5)  
**Collection Date:** 11/13/2018 9:05:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/15/2018		Analyst: FP
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	11/16/2018
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	11/16/2018
Fluoranthene	ND	0.038		mg/Kg-dry	1	11/16/2018
Fluorene	ND	0.038		mg/Kg-dry	1	11/16/2018
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	11/16/2018
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	11/16/2018
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	11/16/2018
Hexachloroethane	ND	0.20		mg/Kg-dry	1	11/16/2018
Indeno(1,2,3-cd)pyrene	ND	0.038		mg/Kg-dry	1	11/16/2018
Isophorone	ND	0.20		mg/Kg-dry	1	11/16/2018
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	11/16/2018
2-Methylphenol	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Methylphenol	ND	0.20		mg/Kg-dry	1	11/16/2018
Naphthalene	ND	0.038		mg/Kg-dry	1	11/16/2018
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/16/2018
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/16/2018
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Nitrophenol	ND	0.38		mg/Kg-dry	1	11/16/2018
Nitrobenzene	ND	0.038		mg/Kg-dry	1	11/16/2018
N-Nitrosodi-n-propylamine	ND	0.038		mg/Kg-dry	1	11/16/2018
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	11/16/2018
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	11/16/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	11/16/2018
Pentachlorophenol	ND	0.077		mg/Kg-dry	1	11/16/2018
Phenanthrene	ND	0.038		mg/Kg-dry	1	11/16/2018
Phenol	ND	0.20		mg/Kg-dry	1	11/16/2018
Pyrene	ND	0.038		mg/Kg-dry	1	11/16/2018
Pyridine	ND	0.77		mg/Kg-dry	1	11/16/2018
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	11/16/2018
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	11/16/2018
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	11/16/2018
<b>Metals by ICP/MS</b>		<b>SW6020A (SW3050B)</b>		Prep Date: 11/16/2018		Analyst: JG
Arsenic	7.4	0.98		mg/Kg-dry	10	11/16/2018
Barium	53	0.98		mg/Kg-dry	10	11/16/2018
Cadmium	ND	0.49		mg/Kg-dry	10	11/16/2018
Chromium	14	0.98		mg/Kg-dry	10	11/16/2018
Lead	12	0.49		mg/Kg-dry	10	11/16/2018

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Date Reported: November 27, 2018

**ANALYTICAL RESULTS**

Date Printed: November 27, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110447 Revision 1  
**Project:** Firestation 115B, 119th & Morgan St.  
**Lab ID:** 18110447-006

**Client Sample ID:** B-117B (3-5)  
**Collection Date:** 11/13/2018 9:05:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020A (SW3050B)</b>		Prep Date: 11/16/2018		Analyst: JG	
Selenium	ND	0.98		mg/Kg-dry	10	11/16/2018
Silver	ND	0.98		mg/Kg-dry	10	11/16/2018
<b>Mercury</b>	<b>SW7471B</b>		Prep Date: 11/15/2018		Analyst: LB	
Mercury	ND	0.021		mg/Kg-dry	1	11/15/2018
<b>pH (25 °C)</b>	<b>SW9045C</b>		Prep Date: 11/19/2018		Analyst: RW	
pH	7.25			pH Units	1	11/19/2018
<b>Percent Moisture</b>	<b>D2974</b>		Prep Date: 11/16/2018		Analyst: RW	
Percent Moisture	14.8	0.2	*	wt%	1	11/17/2018

DRAFT

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**ANALYTICAL RESULTS**

Date Printed: November 27, 2018

Client: Carnow, Conibear, & Associates  
 Work Order: 18110447 Revision 1  
 Project: Firestation 115B, 119th & Morgan St.  
 Lab ID: 18110447-007

Client Sample ID: B-118B (1-3)  
 Collection Date: 11/13/2018 8:30:00 AM  
 Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: 11/13/2018		Analyst: MJK
Acetone	ND	0.075		mg/Kg-dry	1	11/14/2018
Benzene	ND	0.0050		mg/Kg-dry	1	11/14/2018
Bromodichloromethane	ND	0.0050		mg/Kg-dry	1	11/14/2018
Bromoform	ND	0.0050		mg/Kg-dry	1	11/14/2018
Bromomethane	ND	0.010		mg/Kg-dry	1	11/14/2018
2-Butanone	ND	0.075		mg/Kg-dry	1	11/14/2018
Carbon disulfide	ND	0.050		mg/Kg-dry	1	11/14/2018
Carbon tetrachloride	ND	0.0050		mg/Kg-dry	1	11/14/2018
Chlorobenzene	ND	0.0050		mg/Kg-dry	1	11/14/2018
Chloroethane	ND	0.010		mg/Kg-dry	1	11/14/2018
Chloroform	ND	0.0050		mg/Kg-dry	1	11/14/2018
Chloromethane	ND	0.010		mg/Kg-dry	1	11/14/2018
Dibromochloromethane	ND	0.0050		mg/Kg-dry	1	11/14/2018
1,1-Dichloroethane	ND	0.0050		mg/Kg-dry	1	11/14/2018
1,2-Dichloroethane	ND	0.0050		mg/Kg-dry	1	11/14/2018
1,1-Dichloroethene	ND	0.0050		mg/Kg-dry	1	11/14/2018
cis-1,2-Dichloroethene	ND	0.0050		mg/Kg-dry	1	11/14/2018
trans-1,2-Dichloroethene	ND	0.0050		mg/Kg-dry	1	11/14/2018
1,2-Dichloropropane	ND	0.0050		mg/Kg-dry	1	11/14/2018
cis-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	11/14/2018
trans-1,3-Dichloropropene	ND	0.0020		mg/Kg-dry	1	11/14/2018
Ethylbenzene	ND	0.0050		mg/Kg-dry	1	11/14/2018
2-Hexanone	ND	0.020		mg/Kg-dry	1	11/14/2018
4-Methyl-2-pentanone	ND	0.020		mg/Kg-dry	1	11/14/2018
Methylene chloride	ND	0.010		mg/Kg-dry	1	11/14/2018
Methyl tert-butyl ether	ND	0.0050		mg/Kg-dry	1	11/14/2018
Styrene	ND	0.0050		mg/Kg-dry	1	11/14/2018
1,1,2,2-Tetrachloroethane	ND	0.0050		mg/Kg-dry	1	11/14/2018
Tetrachloroethene	ND	0.0050		mg/Kg-dry	1	11/14/2018
Toluene	ND	0.0050		mg/Kg-dry	1	11/14/2018
1,1,1-Trichloroethane	ND	0.0050		mg/Kg-dry	1	11/14/2018
1,1,2-Trichloroethane	ND	0.0050		mg/Kg-dry	1	11/14/2018
Trichloroethene	ND	0.0050		mg/Kg-dry	1	11/14/2018
Vinyl chloride	ND	0.0050		mg/Kg-dry	1	11/14/2018
Xylenes, Total	ND	0.015		mg/Kg-dry	1	11/14/2018
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/15/2018		Analyst: FP
Acenaphthene	ND	0.039		mg/Kg-dry	1	11/16/2018
Acenaphthylene	ND	0.039		mg/Kg-dry	1	11/16/2018

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Date Reported: November 27, 2018

**ANALYTICAL RESULTS**

Date Printed: November 27, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110447 Revision 1  
**Project:** Firestation 115B, 119th & Morgan St.  
**Lab ID:** 18110447-007

**Client Sample ID:** B-118B (1-3)  
**Collection Date:** 11/13/2018 8:30:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/15/2018		Analyst: FP
Aniline	ND	0.39		mg/Kg-dry	1	11/16/2018
Anthracene	ND	0.039		mg/Kg-dry	1	11/16/2018
Benz(a)anthracene	0.11	0.039		mg/Kg-dry	1	11/16/2018
Benzidine	ND	0.39		mg/Kg-dry	1	11/16/2018
Benzo(a)pyrene	0.087	0.039		mg/Kg-dry	1	11/16/2018
Benzo(b)fluoranthene	0.096	0.039		mg/Kg-dry	1	11/16/2018
Benzo(g,h,i)perylene	0.066	0.039		mg/Kg-dry	1	11/16/2018
Benzo(k)fluoranthene	0.074	0.039		mg/Kg-dry	1	11/16/2018
Benzoic acid	ND	0.97		mg/Kg-dry	1	11/16/2018
Benzyl alcohol	ND	0.20		mg/Kg-dry	1	11/16/2018
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg-dry	1	11/16/2018
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg-dry	1	11/16/2018
Bis(2-ethylhexyl)phthalate	ND	0.97		mg/Kg-dry	1	11/16/2018
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	11/16/2018
Butyl benzyl phthalate	ND	0.20		mg/Kg-dry	1	11/16/2018
Carbazole	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Chloroaniline	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Chloro-3-methylphenol	ND	0.39		mg/Kg-dry	1	11/16/2018
2-Chloronaphthalene	ND	0.20		mg/Kg-dry	1	11/16/2018
2-Chlorophenol	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg-dry	1	11/16/2018
Chrysene	0.12	0.039		mg/Kg-dry	1	11/16/2018
Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	11/16/2018
Dibenzofuran	ND	0.20		mg/Kg-dry	1	11/16/2018
1,2-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/16/2018
1,3-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/16/2018
1,4-Dichlorobenzene	ND	0.20		mg/Kg-dry	1	11/16/2018
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg-dry	1	11/16/2018
2,4-Dichlorophenol	ND	0.20		mg/Kg-dry	1	11/16/2018
Diethyl phthalate	ND	0.20		mg/Kg-dry	1	11/16/2018
2,4-Dimethylphenol	ND	0.20		mg/Kg-dry	1	11/16/2018
Dimethyl phthalate	ND	0.20		mg/Kg-dry	1	11/16/2018
4,6-Dinitro-2-methylphenol	ND	0.39		mg/Kg-dry	1	11/16/2018
2,4-Dinitrophenol	ND	0.97		mg/Kg-dry	1	11/16/2018
2,4-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	11/16/2018
2,6-Dinitrotoluene	ND	0.039		mg/Kg-dry	1	11/16/2018
Di-n-butyl phthalate	ND	0.20		mg/Kg-dry	1	11/16/2018
Di-n-octyl phthalate	ND	0.20		mg/Kg-dry	1	11/16/2018

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Date Reported: November 27, 2018

**ANALYTICAL RESULTS**

Date Printed: November 27, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110447 Revision 1  
**Project:** Firestation 115B, 119th & Morgan St.  
**Lab ID:** 18110447-007

**Client Sample ID:** B-118B (1-3)  
**Collection Date:** 11/13/2018 8:30:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>						
	<b>SW8270C (SW3550B)</b>					Prep Date: 11/15/2018 Analyst: FP
Fluoranthene	0.27	0.039		mg/Kg-dry	1	11/16/2018
Fluorene	ND	0.039		mg/Kg-dry	1	11/16/2018
Hexachlorobenzene	ND	0.20		mg/Kg-dry	1	11/16/2018
Hexachlorobutadiene	ND	0.20		mg/Kg-dry	1	11/16/2018
Hexachlorocyclopentadiene	ND	0.20		mg/Kg-dry	1	11/16/2018
Hexachloroethane	ND	0.20		mg/Kg-dry	1	11/16/2018
Indeno(1,2,3-cd)pyrene	0.057	0.039		mg/Kg-dry	1	11/16/2018
Isophorone	ND	0.20		mg/Kg-dry	1	11/16/2018
2-Methylnaphthalene	ND	0.20		mg/Kg-dry	1	11/16/2018
2-Methylphenol	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Methylphenol	ND	0.20		mg/Kg-dry	1	11/16/2018
Naphthalene	ND	0.039		mg/Kg-dry	1	11/16/2018
2-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/16/2018
3-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Nitroaniline	ND	0.20		mg/Kg-dry	1	11/16/2018
2-Nitrophenol	ND	0.20		mg/Kg-dry	1	11/16/2018
4-Nitrophenol	ND	0.39		mg/Kg-dry	1	11/16/2018
Nitrobenzene	ND	0.039		mg/Kg-dry	1	11/16/2018
N-Nitrosodi-n-propylamine	ND	0.039		mg/Kg-dry	1	11/16/2018
N-Nitrosodimethylamine	ND	0.20		mg/Kg-dry	1	11/16/2018
N-Nitrosodiphenylamine	ND	0.20		mg/Kg-dry	1	11/16/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.20		mg/Kg-dry	1	11/16/2018
Pentachlorophenol	ND	0.079		mg/Kg-dry	1	11/16/2018
Phenanthrene	0.19	0.039		mg/Kg-dry	1	11/16/2018
Phenol	ND	0.20		mg/Kg-dry	1	11/16/2018
Pyrene	0.23	0.039		mg/Kg-dry	1	11/16/2018
Pyridine	ND	0.79		mg/Kg-dry	1	11/16/2018
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg-dry	1	11/16/2018
2,4,5-Trichlorophenol	ND	0.20		mg/Kg-dry	1	11/16/2018
2,4,6-Trichlorophenol	ND	0.20		mg/Kg-dry	1	11/16/2018
<b>Metals by ICP/MS</b>						
	<b>SW6020A (SW3050B)</b>					Prep Date: 11/16/2018 Analyst: JG
Arsenic	13	1.0		mg/Kg-dry	10	11/16/2018
Barium	67	1.0		mg/Kg-dry	10	11/16/2018
Cadmium	0.53	0.51		mg/Kg-dry	10	11/16/2018
Chromium	29	1.0		mg/Kg-dry	10	11/16/2018
Lead	140	0.51		mg/Kg-dry	10	11/16/2018
Selenium	ND	1.0		mg/Kg-dry	10	11/16/2018
Silver	ND	1.0		mg/Kg-dry	10	11/16/2018

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

**Qualifiers:**

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

HT - Sample received past holding time

E - Value above quantitation range

\* - Non-accredited parameter

H - Holding time exceeded

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: November 27, 2018

**ANALYTICAL RESULTS**

Date Printed: November 27, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110447 Revision 1  
**Project:** Firestation 115B, 119th & Morgan St.  
**Lab ID:** 18110447-007

**Client Sample ID:** B-118B (1-3)  
**Collection Date:** 11/13/2018 8:30:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b> Mercury	<b>SW7471B</b> 0.051	0.018		mg/Kg-dry	1	Prep Date: <b>11/15/2018</b> Analyst: <b>LB</b> 11/15/2018
<b>pH (25 °C)</b> pH	<b>SW9045C</b> 8.13			pH Units	1	Prep Date: <b>11/19/2018</b> Analyst: <b>RW</b> 11/19/2018
<b>Percent Moisture</b> Percent Moisture	<b>D2974</b> 14.8	0.2	*	wt%	1	Prep Date: <b>11/16/2018</b> Analyst: <b>RW</b> 11/17/2018

DRAFT

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
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Date Reported: November 27, 2018

**ANALYTICAL RESULTS**

Date Printed: November 27, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110447 Revision 1  
**Project:** Firestation 115B, 119th & Morgan St.  
**Lab ID:** 18110447-008

**Client Sample ID:** B-118B (3-5)  
**Collection Date:** 11/13/2018 8:32:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by GC/MS</b>		<b>SW5035/8260B</b>		Prep Date: 11/13/2018		Analyst: MJK
Acetone	0.13	0.12		mg/Kg-dry	1	11/14/2018
Benzene	ND	0.0081		mg/Kg-dry	1	11/14/2018
Bromodichloromethane	ND	0.0081		mg/Kg-dry	1	11/14/2018
Bromoform	ND	0.0081		mg/Kg-dry	1	11/14/2018
Bromomethane	ND	0.016		mg/Kg-dry	1	11/14/2018
2-Butanone	ND	0.12		mg/Kg-dry	1	11/14/2018
Carbon disulfide	ND	0.081		mg/Kg-dry	1	11/14/2018
Carbon tetrachloride	ND	0.0081		mg/Kg-dry	1	11/14/2018
Chlorobenzene	ND	0.0081		mg/Kg-dry	1	11/14/2018
Chloroethane	ND	0.016		mg/Kg-dry	1	11/14/2018
Chloroform	ND	0.0081		mg/Kg-dry	1	11/14/2018
Chloromethane	ND	0.016		mg/Kg-dry	1	11/14/2018
Dibromochloromethane	ND	0.0081		mg/Kg-dry	1	11/14/2018
1,1-Dichloroethane	ND	0.0081		mg/Kg-dry	1	11/14/2018
1,2-Dichloroethane	ND	0.0081		mg/Kg-dry	1	11/14/2018
1,1-Dichloroethene	ND	0.0081		mg/Kg-dry	1	11/14/2018
cis-1,2-Dichloroethene	ND	0.0081		mg/Kg-dry	1	11/14/2018
trans-1,2-Dichloroethene	ND	0.0081		mg/Kg-dry	1	11/14/2018
1,2-Dichloropropane	ND	0.0081		mg/Kg-dry	1	11/14/2018
cis-1,3-Dichloropropene	ND	0.0031		mg/Kg-dry	1	11/14/2018
trans-1,3-Dichloropropene	ND	0.0031		mg/Kg-dry	1	11/14/2018
Ethylbenzene	ND	0.0081		mg/Kg-dry	1	11/14/2018
2-Hexanone	ND	0.031		mg/Kg-dry	1	11/14/2018
4-Methyl-2-pentanone	ND	0.031		mg/Kg-dry	1	11/14/2018
Methylene chloride	ND	0.016		mg/Kg-dry	1	11/14/2018
Methyl tert-butyl ether	ND	0.0081		mg/Kg-dry	1	11/14/2018
Styrene	ND	0.0081		mg/Kg-dry	1	11/14/2018
1,1,2,2-Tetrachloroethane	ND	0.0081		mg/Kg-dry	1	11/14/2018
Tetrachloroethene	ND	0.0081		mg/Kg-dry	1	11/14/2018
Toluene	ND	0.0081		mg/Kg-dry	1	11/14/2018
1,1,1-Trichloroethane	ND	0.0081		mg/Kg-dry	1	11/14/2018
1,1,2-Trichloroethane	ND	0.0081		mg/Kg-dry	1	11/14/2018
Trichloroethene	ND	0.0081		mg/Kg-dry	1	11/14/2018
Vinyl chloride	ND	0.0081		mg/Kg-dry	1	11/14/2018
Xylenes, Total	ND	0.024		mg/Kg-dry	1	11/14/2018
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/15/2018		Analyst: FP
Acenaphthene	ND	0.041		mg/Kg-dry	1	11/16/2018
Acenaphthylene	ND	0.041		mg/Kg-dry	1	11/16/2018

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
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Date Reported: November 27, 2018

**ANALYTICAL RESULTS**

Date Printed: November 27, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110447 Revision 1  
**Project:** Firestation 115B, 119th & Morgan St.  
**Lab ID:** 18110447-008

**Client Sample ID:** B-118B (3-5)  
**Collection Date:** 11/13/2018 8:32:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: 11/15/2018		Analyst: FP
Aniline	ND	0.41		mg/Kg-dry	1	11/16/2018
Anthracene	ND	0.041		mg/Kg-dry	1	11/16/2018
Benz(a)anthracene	ND	0.041		mg/Kg-dry	1	11/16/2018
Benzidine	ND	0.41		mg/Kg-dry	1	11/16/2018
Benzo(a)pyrene	ND	0.041		mg/Kg-dry	1	11/16/2018
Benzo(b)fluoranthene	ND	0.041		mg/Kg-dry	1	11/16/2018
Benzo(g,h,i)perylene	ND	0.041		mg/Kg-dry	1	11/16/2018
Benzo(k)fluoranthene	ND	0.041		mg/Kg-dry	1	11/16/2018
Benzoic acid	ND	1.0		mg/Kg-dry	1	11/16/2018
Benzyl alcohol	ND	0.21		mg/Kg-dry	1	11/16/2018
Bis(2-chloroethoxy)methane	ND	0.21		mg/Kg-dry	1	11/16/2018
Bis(2-chloroethyl)ether	ND	0.21		mg/Kg-dry	1	11/16/2018
Bis(2-ethylhexyl)phthalate	ND	1.0		mg/Kg-dry	1	11/16/2018
4-Bromophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	11/16/2018
Butyl benzyl phthalate	ND	0.21		mg/Kg-dry	1	11/16/2018
Carbazole	ND	0.21		mg/Kg-dry	1	11/16/2018
4-Chloroaniline	ND	0.21		mg/Kg-dry	1	11/16/2018
4-Chloro-3-methylphenol	ND	0.41		mg/Kg-dry	1	11/16/2018
2-Chloronaphthalene	ND	0.21		mg/Kg-dry	1	11/16/2018
2-Chlorophenol	ND	0.21		mg/Kg-dry	1	11/16/2018
4-Chlorophenyl phenyl ether	ND	0.21		mg/Kg-dry	1	11/16/2018
Chrysene	ND	0.041		mg/Kg-dry	1	11/16/2018
Dibenz(a,h)anthracene	ND	0.041		mg/Kg-dry	1	11/16/2018
Dibenzofuran	ND	0.21		mg/Kg-dry	1	11/16/2018
1,2-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	11/16/2018
1,3-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	11/16/2018
1,4-Dichlorobenzene	ND	0.21		mg/Kg-dry	1	11/16/2018
3,3'-Dichlorobenzidine	ND	0.21		mg/Kg-dry	1	11/16/2018
2,4-Dichlorophenol	ND	0.21		mg/Kg-dry	1	11/16/2018
Diethyl phthalate	ND	0.21		mg/Kg-dry	1	11/16/2018
2,4-Dimethylphenol	ND	0.21		mg/Kg-dry	1	11/16/2018
Dimethyl phthalate	ND	0.21		mg/Kg-dry	1	11/16/2018
4,6-Dinitro-2-methylphenol	ND	0.41		mg/Kg-dry	1	11/16/2018
2,4-Dinitrophenol	ND	1.0		mg/Kg-dry	1	11/16/2018
2,4-Dinitrotoluene	ND	0.041		mg/Kg-dry	1	11/16/2018
2,6-Dinitrotoluene	ND	0.041		mg/Kg-dry	1	11/16/2018
Di-n-butyl phthalate	ND	0.21		mg/Kg-dry	1	11/16/2018
Di-n-octyl phthalate	ND	0.21		mg/Kg-dry	1	11/16/2018

**Qualifiers:**  
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 HT - Sample received past holding time  
 \* - Non-accredited parameter

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 S - Spike Recovery outside accepted recovery limits  
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Date Reported: November 27, 2018

**ANALYTICAL RESULTS**

Date Printed: November 27, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110447 Revision 1  
**Project:** Firestation 115B, 119th & Morgan St.  
**Lab ID:** 18110447-008

**Client Sample ID:** B-118B (3-5)  
**Collection Date:** 11/13/2018 8:32:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>						
	<b>SW8270C (SW3550B)</b>					Prep Date: 11/15/2018 Analyst: FP
Fluoranthene	ND	0.041		mg/Kg-dry	1	11/16/2018
Fluorene	ND	0.041		mg/Kg-dry	1	11/16/2018
Hexachlorobenzene	ND	0.21		mg/Kg-dry	1	11/16/2018
Hexachlorobutadiene	ND	0.21		mg/Kg-dry	1	11/16/2018
Hexachlorocyclopentadiene	ND	0.21		mg/Kg-dry	1	11/16/2018
Hexachloroethane	ND	0.21		mg/Kg-dry	1	11/16/2018
Indeno(1,2,3-cd)pyrene	ND	0.041		mg/Kg-dry	1	11/16/2018
Isophorone	ND	0.21		mg/Kg-dry	1	11/16/2018
2-Methylnaphthalene	ND	0.21		mg/Kg-dry	1	11/16/2018
2-Methylphenol	ND	0.21		mg/Kg-dry	1	11/16/2018
4-Methylphenol	ND	0.21		mg/Kg-dry	1	11/16/2018
Naphthalene	ND	0.041		mg/Kg-dry	1	11/16/2018
2-Nitroaniline	ND	0.21		mg/Kg-dry	1	11/16/2018
3-Nitroaniline	ND	0.21		mg/Kg-dry	1	11/16/2018
4-Nitroaniline	ND	0.21		mg/Kg-dry	1	11/16/2018
2-Nitrophenol	ND	0.21		mg/Kg-dry	1	11/16/2018
4-Nitrophenol	ND	0.41		mg/Kg-dry	1	11/16/2018
Nitrobenzene	ND	0.041		mg/Kg-dry	1	11/16/2018
N-Nitrosodi-n-propylamine	ND	0.041		mg/Kg-dry	1	11/16/2018
N-Nitrosodimethylamine	ND	0.21		mg/Kg-dry	1	11/16/2018
N-Nitrosodiphenylamine	ND	0.21		mg/Kg-dry	1	11/16/2018
2, 2'-oxybis(1-Chloropropane)	ND	0.21		mg/Kg-dry	1	11/16/2018
Pentachlorophenol	ND	0.083		mg/Kg-dry	1	11/16/2018
Phenanthrene	ND	0.041		mg/Kg-dry	1	11/16/2018
Phenol	ND	0.21		mg/Kg-dry	1	11/16/2018
Pyrene	ND	0.041		mg/Kg-dry	1	11/16/2018
Pyridine	ND	0.83		mg/Kg-dry	1	11/16/2018
1,2,4-Trichlorobenzene	ND	0.21		mg/Kg-dry	1	11/16/2018
2,4,5-Trichlorophenol	ND	0.21		mg/Kg-dry	1	11/16/2018
2,4,6-Trichlorophenol	ND	0.21		mg/Kg-dry	1	11/16/2018
<b>Metals by ICP/MS</b>						
	<b>SW6020A (SW3050B)</b>					Prep Date: 11/16/2018 Analyst: JG
Arsenic	6.1	1.0		mg/Kg-dry	10	11/16/2018
Barium	56	1.0		mg/Kg-dry	10	11/16/2018
Cadmium	ND	0.52		mg/Kg-dry	10	11/16/2018
Chromium	13	1.0		mg/Kg-dry	10	11/16/2018
Lead	86	0.52		mg/Kg-dry	10	11/16/2018
Selenium	ND	1.0		mg/Kg-dry	10	11/16/2018
Silver	ND	1.0		mg/Kg-dry	10	11/16/2018

ND - Not Detected at the Reporting Limit

RL - Reporting / Quantitation Limit for the analysis

**Qualifiers:**

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

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R - RPD outside accepted recovery limits

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E - Value above quantitation range

\* - Non-accredited parameter

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Date Reported: November 27, 2018

**ANALYTICAL RESULTS**

Date Printed: November 27, 2018

**Client:** Carnow, Conibear, & Associates  
**Work Order:** 18110447 Revision 1  
**Project:** Firestation 115B, 119th & Morgan St.  
**Lab ID:** 18110447-008

**Client Sample ID:** B-118B (3-5)  
**Collection Date:** 11/13/2018 8:32:00 AM  
**Matrix:** Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b> Mercury	<b>SW7471B</b> ND	0.024		mg/Kg-dry	1	Prep Date: <b>11/15/2018</b> Analyst: <b>LB</b> 11/15/2018
<b>pH (25 °C)</b> pH	<b>SW9045C</b> 7.32			pH Units	1	Prep Date: <b>11/19/2018</b> Analyst: <b>RW</b> 11/19/2018
<b>Percent Moisture</b> Percent Moisture	<b>D2974</b> 20.5	0.2	*	wt%	1	Prep Date: <b>11/16/2018</b> Analyst: <b>RW</b> 11/17/2018

DRAFT

**Qualifiers:**

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 HT - Sample received past holding time  
 \* - Non-accredited parameter

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 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**CHAIN OF CUSTODY RECORD**

Company: Customer Conibee Client Tracking No.: \_\_\_\_\_  
 Project Number: \_\_\_\_\_  
 Project Name: Firestation 115B  
 Project Location: 119<sup>th</sup> + Morgan St.  
 Sampler(s): JLZ + KK  
 Report To: kzelzer@ccaltel.com Phone: 312-659-9989  
 QC Level: 1 2 3 4

Quote No.: \_\_\_\_\_  
 P.O. No.: \_\_\_\_\_  
 Turn Around Time (Days):  
 1 2 3 4 5 10  
 Results Needed: \_\_\_\_\_  
 Additional Information: \_\_\_\_\_  
 Lab No.: \_\_\_\_\_ am/pm

Client Sample Number/Description	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers
B-114B(1-3)	11/13/18	8:06	Soil	X			4
B-114B(3-5)		8:08					
B-115B(1-3)		7:35					
B-115B(3-5)		7:40					
B-117B(1-3)		9:00					
B-117B(3-5)		9:05					
B-118B(1-3)		8:30					
B-118B(3-5)		8:32					

SVCS/PNAs	Pesticides	PH	RCRA Metals	VOCs
X	X	X	X	X
X	X	X	X	X
X	X	X	X	X
X	X	X	X	X
X	X	X	X	X
X	X	X	X	X
X	X	X	X	X
X	X	X	X	X
X	X	X	X	X

Relinquished by: (Signature) [Signature] Date/Time: 11/13/18 10:57  
 Received by: (Signature) [Signature] Date/Time: 11/13/18 11:58  
 Relinquished by: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished by: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments: 5 Day TAT  
 Laboratory Work Order No.: 18110447  
 Received on Ice: Yes  No   
 Temperature: 3.1 °C

Preservation Code: A = None B = HNO<sub>3</sub> C = NaOH  
 D = H<sub>2</sub>SO<sub>4</sub> E = HCl F = 5035/EnCore G = Other

**Sample Receipt Checklist**

Client Name **CCA**

Date and Time Received: **11/13/2018 10:53:00 AM**

Work Order Number **18110447**

Received by: **EAA**

Checklist completed by: *Eln* 11/13/18  
Signature Date

Reviewed by: *A-b* 11/13/18  
Initials Date

Matrix: Carrier name Client Delivered

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels/containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container or Temp Blank temperature in compliance? Yes  No  Temperature **3.1 °C**
- Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No
- Water - Samples pH checked? Yes  No  Checked by: \_\_\_\_\_
- Water - Samples properly preserved? Yes  No  pH Adjusted? \_\_\_\_\_

Any No response must be detailed in the comments section below.

-----

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Client / Person contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



## Craig Chawla

---

**From:** Nohemi Melero <nmelero@calttd.com>  
**Sent:** Wednesday, November 21, 2018 3:27 PM  
**To:** Craig Chawla; Karen Zelzer  
**Subject:** RE: Firestation 115 B, 119th & Morgan St. 18110408

Craig,

Can you please the following analyses? We need results by November 28<sup>th</sup> 2018. STAT WO #'s 18110408 & 18110447.

B-101B(1-3) – SPLP/TCLP Aluminum, SPLP Cobalt, SPLP/TCLP Iron, SPLP Manganese  
B-104B(1-3) – SPLP/TCLP Lead  
B-110B(3-5) – SPLP/TCLP Lead  
B-114B(1-3) – SPLP Chromium

Thank you,

**CARNOW  
CONIBEAR**



**Nohemi Melero**  
Senior Project Manager

600 West Van Buren Street, Suite 500  
Chicago, Illinois 60607

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---

**From:** Craig Chawla [<mailto:cchawla@statanalysis.com>]  
**Sent:** Monday, November 19, 2018 11:57 AM  
**To:** Karen Zelzer <[kzelzer@calttd.com](mailto:kzelzer@calttd.com)>; Nohemi Melero <[nmelero@calttd.com](mailto:nmelero@calttd.com)>  
**Subject:** Firestation 115 B, 119th & Morgan St. 18110408

Karen/Nohemi,

Attached is the metals data for project Firestation 115 B, 119th & Morgan St. received 11/12/2018.

Based on the results, let me know if you need to add TCLP or SPLP Metals.

Craig Chawla  
STAT Analysis Corporation  
(312)733-0551

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**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

December 17, 2018

Carnow, Conibear, & Associates  
600 W. Van Buren Street  
Chicago, IL 60607

Telephone: (312) 782-4486  
Fax: (312) 782-5145

Analytical Report for STAT Work Order: 18110944 Revision 1

RE: Fire Station 115B, S. Morgan St. & W. 119th St.

Dear Karen Zelzer:

STAT Analysis received 28 samples for the referenced project on 11/29/2018 12:20:00 PM. The analytical results are presented in the following report.

This report is revised to reflect additional analysis requested after the last report revision.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAP standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Justice Kwateng  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Carnow, Conibear, & Associates  
**Project:** Fire Station 115B, S. Morgan St. & W. 119th St.  
**Work Order:** 18110944 Revision 1

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**Work Order Sample Summary**

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
18110944-001A	B-201B (1-3)		11/29/2018 10:40:00 AM	11/29/2018
18110944-002A	B-201B (3-5)		11/29/2018 10:43:00 AM	11/29/2018
18110944-003A	B-202B (1-3)		11/29/2018 10:45:00 AM	11/29/2018
18110944-004A	B-202B (3-5)		11/29/2018 10:50:00 AM	11/29/2018
18110944-005A	B-203B (1-3)		11/29/2018 11:10:00 AM	11/29/2018
18110944-006A	B-203B (3-5)		11/29/2018 11:12:00 AM	11/29/2018
18110944-007A	B-204B (1-3)		11/29/2018 11:00:00 AM	11/29/2018
18110944-008A	B-204B (3-5)		11/29/2018 11:05:00 AM	11/29/2018
18110944-009A	B-205B (1-3)		11/29/2018 10:28:00 AM	11/29/2018
18110944-010A	B-205B (3-5)		11/29/2018 10:30:00 AM	11/29/2018
18110944-011A	B-206B (1-3)		11/29/2018 10:15:00 AM	11/29/2018
18110944-012A	B-206B (3-5)		11/29/2018 10:17:00 AM	11/29/2018
18110944-013A	B-207B (1-3)		11/29/2018 9:25:00 AM	11/29/2018
18110944-014A	B-207B (3-5)		11/29/2018 9:27:00 AM	11/29/2018
18110944-015A	B-208B (1-3)		11/29/2018 9:18:00 AM	11/29/2018
18110944-016A	B-208B (3-5)		11/29/2018 9:20:00 AM	11/29/2018
18110944-017A	B-209B (1-3)		11/29/2018 10:10:00 AM	11/29/2018
18110944-018A	B-209B (3-5)		11/29/2018 10:12:00 AM	11/29/2018
18110944-019A	B-210B (1-3)		11/29/2018 9:30:00 AM	11/29/2018
18110944-020A	B-210B (3-5)		11/29/2018 9:35:00 AM	11/29/2018
18110944-021A	B-211B (1-3)		11/29/2018 9:10:00 AM	11/29/2018
18110944-022A	B-211B (3-5)		11/29/2018 9:15:00 AM	11/29/2018
18110944-023A	B-212B (1-3)		11/29/2018 9:40:00 AM	11/29/2018
18110944-024A	B-212B (3-5)		11/29/2018 9:42:00 AM	11/29/2018
18110944-025A	B-213B (1-3)		11/29/2018 8:55:00 AM	11/29/2018
18110944-026A	B-213B (3-5)		11/29/2018 9:00:00 AM	11/29/2018
18110944-027A	B-214B (1-3)		11/29/2018 8:48:00 AM	11/29/2018
18110944-028A	B-214B (3-5)		11/29/2018 8:50:00 AM	11/29/2018

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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 17, 2018

**ANALYTICAL RESULTS**

Date Printed: December 17, 2018

Client: Carnow, Conibear, &amp; Associates

Project: Fire Station 115B, S. Morgan St. &amp; W. 119th St.

Work Order: 18110944 Revision 1

Lab ID: 18110944-009

Collection Date: 11/29/2018 10:28:00 AM

Client Sample ID B-205B (1-3)

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020A (SW3050B)</b>				Prep Date: <b>12/4/2018</b>	Analyst: <b>JG</b>
Arsenic	9.1	1.1		mg/Kg-dry	10	12/4/2018
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>11/30/2018</b>	Analyst: <b>RW</b>
Percent Moisture	17.5	0.2	*	wt%	1	12/3/2018

Lab ID: 18110944-011

Collection Date: 11/29/2018 10:15:00 AM

Client Sample ID B-206B (1-3)

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020A (SW3050B)</b>				Prep Date: <b>12/5/2018</b>	Analyst: <b>JG</b>
Arsenic	10	1.0		mg/Kg-dry	10	12/6/2018
Iron	19000	31		mg/Kg-dry	10	12/6/2018
Lead	330	0.51		mg/Kg-dry	10	12/6/2018
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>11/30/2018</b>	Analyst: <b>RW</b>
Percent Moisture	18.4	0.2	*	wt%	1	12/3/2018

Lab ID: 18110944-012

Collection Date: 11/29/2018 10:17:00 AM

Client Sample ID B-206B (3-5)

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020A (SW3050B)</b>				Prep Date: <b>12/4/2018</b>	Analyst: <b>JG</b>
Arsenic	7.6	1.0		mg/Kg-dry	10	12/4/2018
Iron	13000	30		mg/Kg-dry	10	12/4/2018
Lead	8.4	0.50		mg/Kg-dry	10	12/4/2018
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>11/30/2018</b>	Analyst: <b>RW</b>
Percent Moisture	16.5	0.2	*	wt%	1	12/3/2018

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Date Reported: December 17, 2018

**ANALYTICAL RESULTS**

Date Printed: December 17, 2018

Client: Carnow, Conibear, &amp; Associates

Project: Fire Station 115B, S. Morgan St. &amp; W. 119th St.

Work Order: 18110944 Revision 1

Lab ID: 18110944-013

Collection Date: 11/29/2018 9:25:00 AM

Client Sample ID B-207B (1-3)

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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**Polynuclear Aromatic Hydrocarbons by GC/MS SW8270C (SW3550B)** Prep Date: 12/3/2018 Analyst: FP

Acenaphthene	ND	0.038		mg/Kg-dry	1	12/3/2018
Acenaphthylene	ND	0.038		mg/Kg-dry	1	12/3/2018
Anthracene	ND	0.038		mg/Kg-dry	1	12/3/2018
Benz(a)anthracene	ND	0.038		mg/Kg-dry	1	12/3/2018
Benzo(a)pyrene	ND	0.038		mg/Kg-dry	1	12/3/2018
Benzo(b)fluoranthene	ND	0.038		mg/Kg-dry	1	12/3/2018
Benzo(g,h,i)perylene	ND	0.038		mg/Kg-dry	1	12/3/2018
Benzo(k)fluoranthene	ND	0.038		mg/Kg-dry	1	12/3/2018
Chrysene	ND	0.038		mg/Kg-dry	1	12/3/2018
Dibenz(a,h)anthracene	ND	0.038		mg/Kg-dry	1	12/3/2018
Fluoranthene	0.061	0.038		mg/Kg-dry	1	12/3/2018
Fluorene	ND	0.038		mg/Kg-dry	1	12/3/2018
Indeno(1,2,3-cd)pyrene	ND	0.038		mg/Kg-dry	1	12/3/2018
Naphthalene	ND	0.038		mg/Kg-dry	1	12/3/2018
Phenanthrene	ND	0.038		mg/Kg-dry	1	12/3/2018
Pyrene	0.050	0.038		mg/Kg-dry	1	12/3/2018

**Metals by ICP/MS SW6020A (SW3050B)** Prep Date: 12/4/2018 Analyst: JG

Arsenic	6.8	1.0		mg/Kg-dry	10	12/4/2018
Iron	16000	31		mg/Kg-dry	10	12/4/2018
Lead	14	0.51		mg/Kg-dry	10	12/4/2018

**Percent Moisture D2974** Prep Date: 11/30/2018 Analyst: RW

Percent Moisture	14.3	0.2	*	wt%	1	12/3/2018
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Lab ID: 18110944-014

Collection Date: 11/29/2018 9:27:00 AM

Client Sample ID B-207B (3-5)

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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**Metals by ICP/MS SW6020A (SW3050B)** Prep Date: 12/14/2018 Analyst: JG

Lead	110	0.58		mg/Kg-dry	10	12/14/2018
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**Percent Moisture D2974** Prep Date: 12/10/2018 Analyst: RW

Percent Moisture	23.7	0.2	*	wt%	1	12/11/2018
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**Qualifiers:**  
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 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
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 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Date Reported: December 17, 2018

**ANALYTICAL RESULTS**

Date Printed: December 17, 2018

Client: Carnow, Conibear, &amp; Associates

Project: Fire Station 115B, S. Morgan St. &amp; W. 119th St.

Work Order: 18110944 Revision 1

Lab ID: 18110944-015

Collection Date: 11/29/2018 9:18:00 AM

Client Sample ID B-208B (1-3)

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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**Polynuclear Aromatic Hydrocarbons by GC/MS SW8270C (SW3550B)** Prep Date: 12/3/2018 Analyst: FP

Acenaphthene	ND	0.040		mg/Kg-dry	1	12/3/2018
Acenaphthylene	ND	0.040		mg/Kg-dry	1	12/3/2018
Anthracene	ND	0.040		mg/Kg-dry	1	12/3/2018
Benz(a)anthracene	0.079	0.040		mg/Kg-dry	1	12/3/2018
Benzo(a)pyrene	0.083	0.040		mg/Kg-dry	1	12/3/2018
Benzo(b)fluoranthene	0.083	0.040		mg/Kg-dry	1	12/3/2018
Benzo(g,h,i)perylene	0.077	0.040		mg/Kg-dry	1	12/3/2018
Benzo(k)fluoranthene	0.071	0.040		mg/Kg-dry	1	12/3/2018
Chrysene	0.086	0.040		mg/Kg-dry	1	12/3/2018
Dibenz(a,h)anthracene	ND	0.040		mg/Kg-dry	1	12/3/2018
Fluoranthene	0.11	0.040		mg/Kg-dry	1	12/3/2018
Fluorene	ND	0.040		mg/Kg-dry	1	12/3/2018
Indeno(1,2,3-cd)pyrene	0.058	0.040		mg/Kg-dry	1	12/3/2018
Naphthalene	ND	0.040		mg/Kg-dry	1	12/3/2018
Phenanthrene	ND	0.040		mg/Kg-dry	1	12/3/2018
Pyrene	0.10	0.040		mg/Kg-dry	1	12/3/2018

**Metals by ICP/MS SW6020A (SW3050B)** Prep Date: 12/4/2018 Analyst: JG

Arsenic	15	1.0		mg/Kg-dry	10	12/4/2018
Iron	24000	30		mg/Kg-dry	10	12/4/2018
Lead	31	0.51		mg/Kg-dry	10	12/4/2018

**Percent Moisture D2974** Prep Date: 11/30/2018 Analyst: RW

Percent Moisture	17.6	0.2	*	wt%	1	12/3/2018
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Lab ID: 18110944-016

Collection Date: 11/29/2018 9:20:00 AM

Client Sample ID B-208B (3-5)

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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**Metals by ICP/MS SW6020A (SW3050B)** Prep Date: 12/4/2018 Analyst: JG

Arsenic	5.2	1.1		mg/Kg-dry	10	12/4/2018
Iron	12000	32		mg/Kg-dry	10	12/5/2018
Lead	17	0.54		mg/Kg-dry	10	12/4/2018

**Percent Moisture D2974** Prep Date: 11/30/2018 Analyst: RW

Percent Moisture	21.9	0.2	*	wt%	1	12/3/2018
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**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Date Reported: December 17, 2018

**ANALYTICAL RESULTS**

Date Printed: December 17, 2018

Client: Carnow, Conibear, &amp; Associates

Project: Fire Station 115B, S. Morgan St. &amp; W. 119th St.

Work Order: 18110944 Revision 1

Lab ID: 18110944-017

Collection Date: 11/29/2018 10:10:00 AM

Client Sample ID B-209B (1-3)

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020A (SW3050B)</b>				Prep Date: 12/4/2018	Analyst: JG
Arsenic	9.4	1.0		mg/Kg-dry	10	12/4/2018
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 11/30/2018	Analyst: RW
Percent Moisture	16.7	0.2	*	wt%	1	12/3/2018

Lab ID: 18110944-018

Collection Date: 11/29/2018 10:12:00 AM

Client Sample ID B-209B (3-5)

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020A (SW3050B)</b>				Prep Date: 12/4/2018	Analyst: JG
Arsenic	5.8	1.0		mg/Kg-dry	10	12/4/2018
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 11/30/2018	Analyst: RW
Percent Moisture	16.2	0.2	*	wt%	1	12/3/2018

Lab ID: 18110944-019

Collection Date: 11/29/2018 9:30:00 AM

Client Sample ID B-210B (1-3)

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020A (SW3050B)</b>				Prep Date: 12/4/2018	Analyst: JG
Arsenic	9.8	1.1		mg/Kg-dry	10	12/4/2018
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 11/30/2018	Analyst: RW
Percent Moisture	20.1	0.2	*	wt%	1	12/3/2018

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

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 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Date Reported: December 17, 2018

**ANALYTICAL RESULTS**

Date Printed: December 17, 2018

Client: Carnow, Conibear, &amp; Associates

Project: Fire Station 115B, S. Morgan St. &amp; W. 119th St.

Work Order: 18110944 Revision 1

Lab ID: 18110944-021

Collection Date: 11/29/2018 9:10:00 AM

Client Sample ID B-211B (1-3)

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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**Polynuclear Aromatic Hydrocarbons by GC/MS SW8270C (SW3550B)** Prep Date: 12/3/2018 Analyst: FP

Acenaphthene	ND	0.044		mg/Kg-dry	1	12/3/2018
Acenaphthylene	ND	0.044		mg/Kg-dry	1	12/3/2018
Anthracene	ND	0.044		mg/Kg-dry	1	12/3/2018
Benz(a)anthracene	ND	0.044		mg/Kg-dry	1	12/3/2018
Benzo(a)pyrene	ND	0.044		mg/Kg-dry	1	12/3/2018
Benzo(b)fluoranthene	ND	0.044		mg/Kg-dry	1	12/3/2018
Benzo(g,h,i)perylene	ND	0.044		mg/Kg-dry	1	12/3/2018
Benzo(k)fluoranthene	ND	0.044		mg/Kg-dry	1	12/3/2018
Chrysene	ND	0.044		mg/Kg-dry	1	12/3/2018
Dibenz(a,h)anthracene	ND	0.044		mg/Kg-dry	1	12/3/2018
Fluoranthene	ND	0.044		mg/Kg-dry	1	12/3/2018
Fluorene	ND	0.044		mg/Kg-dry	1	12/3/2018
Indeno(1,2,3-cd)pyrene	ND	0.044		mg/Kg-dry	1	12/3/2018
Naphthalene	ND	0.044		mg/Kg-dry	1	12/3/2018
Phenanthrene	ND	0.044		mg/Kg-dry	1	12/3/2018
Pyrene	ND	0.044		mg/Kg-dry	1	12/3/2018

**Metals by ICP/MS SW6020A (SW3050B)** Prep Date: 12/4/2018 Analyst: JG

Arsenic	14	1.1		mg/Kg-dry	10	12/4/2018
Lead	380	0.57		mg/Kg-dry	10	12/4/2018

**Percent Moisture D2974** Prep Date: 11/30/2018 Analyst: RW

Percent Moisture	25.6	0.2	*	wt%	1	12/3/2018
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Lab ID: 18110944-022

Collection Date: 11/29/2018 9:15:00 AM

Client Sample ID B-211B (3-5)

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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**Metals by ICP/MS SW6020A (SW3050B)** Prep Date: 12/14/2018 Analyst: MDT

Arsenic	5.5	1.1		mg/Kg-dry	10	12/15/2018
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**Percent Moisture D2974** Prep Date: 11/30/2018 Analyst: RW

Percent Moisture	23.5	0.2	*	wt%	1	12/3/2018
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**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded



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Date Reported: December 17, 2018

**ANALYTICAL RESULTS**

Date Printed: December 17, 2018

Client: Carnow, Conibear, &amp; Associates

Project: Fire Station 115B, S. Morgan St. &amp; W. 119th St.

Work Order: 18110944 Revision 1

Lab ID: 18110944-023

Collection Date: 11/29/2018 9:40:00 AM

Client Sample ID B-212B (1-3)

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Metals by ICP/MS</b>	<b>SW6020A (SW3050B)</b>				Prep Date: <b>12/4/2018</b>	Analyst: <b>JG</b>
Arsenic	8.1	1.0		mg/Kg-dry	10	12/4/2018
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>11/30/2018</b>	Analyst: <b>RW</b>
Percent Moisture	16.3	0.2	*	wt%	1	12/3/2018

Lab ID: 18110944-025

Collection Date: 11/29/2018 8:55:00 AM

Client Sample ID B-213B (1-3)

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Polynuclear Aromatic Hydrocarbons by GC/MS</b>	<b>SW8270C (SW3550B)</b>				Prep Date: <b>12/3/2018</b>	Analyst: <b>FP</b>
Acenaphthene	ND	0.040		mg/Kg-dry	1	12/3/2018
Acenaphthylene	ND	0.040		mg/Kg-dry	1	12/3/2018
Anthracene	ND	0.040		mg/Kg-dry	1	12/3/2018
Benz(a)anthracene	0.052	0.040		mg/Kg-dry	1	12/3/2018
Benzo(a)pyrene	0.045	0.040		mg/Kg-dry	1	12/3/2018
Benzo(b)fluoranthene	0.043	0.040		mg/Kg-dry	1	12/3/2018
Benzo(g,h,i)perylene	ND	0.040		mg/Kg-dry	1	12/3/2018
Benzo(k)fluoranthene	0.045	0.040		mg/Kg-dry	1	12/3/2018
Chrysene	0.052	0.040		mg/Kg-dry	1	12/3/2018
Dibenz(a,h)anthracene	ND	0.040		mg/Kg-dry	1	12/3/2018
Fluoranthene	0.099	0.040		mg/Kg-dry	1	12/3/2018
Fluorene	ND	0.040		mg/Kg-dry	1	12/3/2018
Indeno(1,2,3-cd)pyrene	ND	0.040		mg/Kg-dry	1	12/3/2018
Naphthalene	ND	0.040		mg/Kg-dry	1	12/3/2018
Phenanthrene	ND	0.040		mg/Kg-dry	1	12/3/2018
Pyrene	0.082	0.040		mg/Kg-dry	1	12/3/2018
<b>Metals by ICP/MS</b>	<b>SW6020A (SW3050B)</b>				Prep Date: <b>12/4/2018</b>	Analyst: <b>JG</b>
Arsenic	11	1.0		mg/Kg-dry	10	12/4/2018
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>11/30/2018</b>	Analyst: <b>RW</b>
Percent Moisture	17.0	0.2	*	wt%	1	12/3/2018

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

Date Reported: December 17, 2018

**ANALYTICAL RESULTS**

Date Printed: December 17, 2018

Client: Carnow, Conibear, &amp; Associates

Project: Fire Station 115B, S. Morgan St. &amp; W. 119th St.

Work Order: 18110944 Revision 1

Lab ID: 18110944-027

Collection Date: 11/29/2018 8:48:00 AM

Client Sample ID B-214B (1-3)

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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**Polynuclear Aromatic Hydrocarbons by GC/MS SW8270C (SW3550B)** Prep Date: 12/3/2018 Analyst: FP

Acenaphthene	0.062	0.038		mg/Kg-dry	1	12/3/2018
Acenaphthylene	ND	0.038		mg/Kg-dry	1	12/3/2018
Anthracene	0.19	0.038		mg/Kg-dry	1	12/3/2018
Benz(a)anthracene	0.49	0.038		mg/Kg-dry	1	12/3/2018
Benzo(a)pyrene	0.64	0.038		mg/Kg-dry	1	12/3/2018
Benzo(b)fluoranthene	0.41	0.038		mg/Kg-dry	1	12/3/2018
Benzo(g,h,i)perylene	1.1	0.038		mg/Kg-dry	1	12/3/2018
Benzo(k)fluoranthene	0.44	0.038		mg/Kg-dry	1	12/3/2018
Chrysene	0.54	0.038		mg/Kg-dry	1	12/3/2018
Dibenz(a,h)anthracene	0.34	0.038		mg/Kg-dry	1	12/3/2018
Fluoranthene	1.1	0.038		mg/Kg-dry	1	12/3/2018
Fluorene	0.064	0.038		mg/Kg-dry	1	12/3/2018
Indeno(1,2,3-cd)pyrene	0.43	0.038		mg/Kg-dry	1	12/3/2018
Naphthalene	ND	0.038		mg/Kg-dry	1	12/3/2018
Phenanthrene	0.62	0.038		mg/Kg-dry	1	12/3/2018
Pyrene	0.94	0.038		mg/Kg-dry	1	12/3/2018

**Metals by ICP/MS SW6020A (SW3050B)** Prep Date: 12/4/2018 Analyst: JG

Arsenic	8.1	0.99		mg/Kg-dry	10	12/4/2018
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**Percent Moisture D2974** Prep Date: 11/30/2018 Analyst: RW

Percent Moisture	14.4	0.2	*	wt%	1	12/3/2018
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Lab ID: 18110944-028

Collection Date: 11/29/2018 8:50:00 AM

Client Sample ID B-214B (3-5)

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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**Polynuclear Aromatic Hydrocarbons by GC/MS SW8270C (SW3550B)** Prep Date: 12/13/2018 Analyst: FP

Dibenz(a,h)anthracene	ND	0.039		mg/Kg-dry	1	12/13/2018
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**Percent Moisture D2974** Prep Date: 11/30/2018 Analyst: RW

Percent Moisture	15.6	0.2	*	wt%	1	12/3/2018
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**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**CHAIN OF CUSTODY RECORD**

Company: <u>Camow Conibeer</u>		Client Tracking No.:	
Project Number:			
Project Name: <u>Fire Station 115B</u>			
Project Location: <u>S. Morgan St + W. 119th St.</u>			
Sampler(s): <u>KZ K12</u>			
Report To: <u>kze12er@cca1td.com</u>		Phone: <u>(312) 659-9989</u>	
QC Level: 1 2 3 4		Fax: _____	
e-mail: _____			

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers
B-201B(1-3)	11/29/13	10:40	SOIL	X	X	X	2
B-201B(3-5)		10:45					
B-202B(1-3)		10:45					
B-202B(3-5)		10:50					
B-203B(1-3)		11:10					
B-203B(3-5)		11:12					
B-204B(1-3)		11:00					
B-204B(3-5)		11:05					
B-205B(1-3)		10:28					
B-205B(3-5)		10:30					
B-206B(1-3)		10:15					
B-206B(3-5)		10:17					
B-207B(1-3)		9:25					
B-207B(3-5)		9:27					
B-208B(1-3)		9:18					
B-208B(3-5)		9:20					
B-209B(1-3)		10:10					
B-209B(3-5)		10:12					
B-210B(1-3)		9:30					
B-210B(3-5)		9:35					

Additional Information:	Lab No.:
HOLD	001
HOLD	002
HOLD	003
HOLD	004
HOLD	005
HOLD	006
HOLD	007
HOLD	008
HOLD	009
HOLD	010
HOLD	011
HOLD	012
HOLD	013
HOLD	014
HOLD	015
HOLD	016
HOLD	017
HOLD	018
HOLD	019
HOLD	020

Quote No.:	
P.O. No.:	
Turn Around Time (Days):	1 2 3 4 5 7 10
Results Needed:	/ /

Laboratory Work Order No.:	18110944
Received on Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Temperature:	017.8

Comments:	Iron Arsenic Lead Manganese PVAs
Relinquished by: (Signature)	<u>[Signature]</u>
Received by: (Signature)	<u>[Signature]</u>
Relinquished by: (Signature)	<u>[Signature]</u>
Received by: (Signature)	<u>[Signature]</u>
Relinquished by: (Signature)	<u>[Signature]</u>
Received by: (Signature)	<u>[Signature]</u>

Preservation Code: A = None B = HNO<sub>3</sub> C = NaOH  
 D = H<sub>2</sub>SO<sub>4</sub> E = HCl F = 5035/EnCore G = Other

**CHAIN OF CUSTODY RECORD**

Company: Carnow Conibear Client Tracking No.: \_\_\_\_\_  
 Project Name: Fire Station 115B  
 Project Location: S. Morgan St + W. 119th St.  
 Sampler(s): KK  
 Report To: kzelzer@ccaltd.com Phone: (312) 659-9989  
 QC Level: 1 2 3 4  
 Fax: \_\_\_\_\_ e-mail: \_\_\_\_\_

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers
B-211B(1-3)	11/29/18	9:10	Soil	X	X	X	1
B-211B(3-5)		9:15					
B-212B(1-3)		9:40					
B-212B(3-5)		9:42					
B-213B(1-3)		8:55					
B-213B(3-5)		8:00					
B-214B(1-3)		8:48					
B-214B(3-5)		8:50					

Quote No.:	
P.O. No.:	
Turn Around Time (Days):	1 2 3 4 5 7 10
Results Needed:	/ /
Additional Information:	Lab No.:
Asbestos	021
Lead	022
Manganese	023
PNAs	024
	025
	026
	027
	028

Relinquished by: (Signature) [Signature] Date/Time: 11/29/18 12:20  
 Received by: (Signature) [Signature] Date/Time: 11/29/18 12:20  
 Relinquished by: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished by: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments: \_\_\_\_\_

Preservation Code: A = None B = HNO<sub>3</sub> C = NaOH  
 D = H<sub>2</sub>SO<sub>4</sub> E = HCl F = 5035/EnCore G = Other

Laboratory Work Order No.: 18110944  
 Received on Ice: Yes  No   
 Temperature: 0178

**Sample Receipt Checklist**

Client Name CCA

Date and Time Received: 11/29/2018 12:20:00 PM

Work Order Number 18110944

Received by: EAA

Checklist completed by: EW 11/29/18  
Signature Date

Reviewed by: AR 11/29/18  
Initials Date

Matrix: Carrier name Client Delivered

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels/containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container or Temp Blank temperature in compliance? Yes  No  Temperature On Ice °C
- Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No
- Water - Samples pH checked? Yes  No  Checked by: \_\_\_\_\_
- Water - Samples properly preserved? Yes  No  pH Adjusted? \_\_\_\_\_

Any No response must be detailed in the comments section below.

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Client / Person contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## Justice Kwateng

---

**From:** Karen Zelzer <kzelzer@calttd.com>  
**Sent:** Monday, December 10, 2018 11:33 AM  
**To:** Justice Kwateng  
**Cc:** Nohemi Melero  
**Subject:** RE: Fire Station 115B, S. Morgan St. & W. 119th St. STAT 18110944

Hello Justice,  
Could we please run the following analysis:

B-214B (3-5) – Dibenz(a,h)anthracene.

Thank you,



**Karen L. Zelzer**  
Environmental Specialist I

600 West Van Buren Street, Suite 500  
Chicago, Illinois 60607  
t: 312.762.2909 c: 312.659.9989  
e: kzelzer@calttd.com w: ccaltd.com

---

**From:** Justice Kwateng <[JKwateng@STATAnalysis.com](mailto:JKwateng@STATAnalysis.com)>  
**Sent:** Monday, December 10, 2018 10:51 AM  
**To:** Karen Zelzer <[kzelzer@calttd.com](mailto:kzelzer@calttd.com)>  
**Subject:** Fire Station 115B, S. Morgan St. & W. 119th St. STAT 18110944

Please find the attached report for your Fire Station 115B, S. Morgan St. & W. 119th St. project.  
STAT 18110944

Thank you for choosing STAT for your testing needs.

In an effort to increase efficiency and conserve resources, STAT Analysis has adopted paperless reporting. The attached pdf files can be printed as the final copy. You will not receive a hardcopy in the mail.

Best Regards,

**Justice Kwateng**

**Project Manager**

**STAT Analysis Corporation**

2242 W. Harrison St, Suite 200

Chicago, IL 60612

Tel: 1-312-733-0551

Fax: 1-312-733-2386

## Craig Chawla

---

**From:** Karen Zelzer <kzelzer@calttd.com>  
**Sent:** Monday, December 10, 2018 5:26 PM  
**To:** Justice Kwateng; Craig Chawla  
**Cc:** Nohemi Melero  
**Subject:** Fire Station 115 Site B 18110944

Hello Justice/Craig,

Could we please run the following analysis:

B-206B (1-3) – Total Lead  
B-206B (3-5) – Total Lead  
B-207B (1-3) – Total Lead  
B-207B (3-5) – Total Lead  
B-208B (1-3) – Total Lead  
B-208B (3-5) – Total Lead

Could we please have these on a RUSH 2-day TAT.

Thank you,

**CARNOW  
CONIBEAR**



**Karen L. Zelzer**  
**Environmental Specialist I**

600 West Van Buren Street, Suite 500  
Chicago, Illinois 60607

**t:** 312.762.2909 **c:** 312.659.9989

**e:** kzelzer@calttd.com **w:** ccaltd.com

## Craig Chawla

---

**From:** Nohemi Melero <nmelero@caltld.com>  
**Sent:** Friday, December 14, 2018 2:03 PM  
**To:** Craig Chawla  
**Cc:** Karen Zelzer  
**Subject:** RE: Fire Station 115 Site B 18110944

Craig,  
Please run the following analysis on RUSH TAT:  
B-211B (3-5) – Arsenic  
Thank you,



**Nohemi Melero**  
Senior Project Manager

600 West Van Buren Street, Suite 500  
Chicago, Illinois 60607

t: 312.762.2927 c: 312.656.2383

e: [nmelero@caltld.com](mailto:nmelero@caltld.com) w: [caltld.com](http://caltld.com)

---

**From:** Craig Chawla [<mailto:cchawla@stataanalysis.com>]  
**Sent:** Friday, December 14, 2018 12:34 PM  
**To:** Karen Zelzer <[kzelzer@caltld.com](mailto:kzelzer@caltld.com)>; Nohemi Melero <[nmelero@caltld.com](mailto:nmelero@caltld.com)>  
**Subject:** RE: Fire Station 115 Site B 18110944

Hi Nohemi,

The updated table is attached. I am just waiting on lead for sample B-207B (3-5).

Craig Chawla  
STAT Analysis Corporation  
(312)733-0551

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---

**From:** Karen Zelzer [<mailto:kzelzer@caltld.com>]  
**Sent:** Monday, December 10, 2018 5:26 PM  
**To:** Justice Kwateng; Craig Chawla  
**Cc:** Nohemi Melero  
**Subject:** Fire Station 115 Site B 18110944

Hello Justice/Craig,

Could we please run the following analysis:

B-206B (1-3) – Total Lead  
B-206B (3-5) – Total Lead



**Appendix E**  
**Tier 2 Evaluation**

DRAFT

## Tier 2 Evaluation & Groundwater Modeling

Fire Station Engine Company 115 – Site B  
NW Corner of W. 119th St. & S. Morgan St., Chicago, Illinois

A Site-specific Tier 2 SRO was calculated for benz(a)anthracene using RBCA equation R-12 to evaluate the soil component of Class II groundwater ingestion (SCGW) exposure route.

A majority of the parameters used for the calculations are default or chemical-specific values provided in TACO. Exhibits, sources, calculations, and the basis for site-specific variables are provided as follows.

### Site-Specific Variables

#### *Fractional Organic Carbon ( $f_{oc}$ )*

A site-specific organic carbon content value for surface soils was obtained from the laboratory analytical result from sample B-210B(1-3). This sample was collected from within three feet bgs in the central portion of the Remediation Site, and was also analyzed for VOCs, SVOCs, PNAs, and pesticides. None of these organic constituents were detected within the sample, indicating that the corresponding  $f_{oc}$  value is valid for use within the Tier 2 model. The reported organic matter result of 1.76% was multiplied by 0.58 per 35 IAC 742.215 to obtain the  $f_{oc}$  value used in the R-12 calculations of 1.0208%, or 0.010208 g/g.

#### *Hydraulic Gradient ( $i$ )*

A site specific hydraulic gradient of 0.013 ft/ft was calculated from the well survey conducted at the Remediation Site on December 13, 2018.

#### *Hydraulic Conductivity ( $K$ )*

A hydraulic conductivity value of  $1.0 \times 10^{-3}$  cm/sec was used in the calculations based on Plate 1 of the "Berg Circular" for the materials in the area surrounding the Remediation Site.

#### *Width of Source Perpendicular to Groundwater Flow Direction in Vertical Plane ( $S_d$ )*

Class II SCGW Tier 1 SRO exceedances were delineated to the upper four feet of soils in the vicinity of boring B-106B. Therefore, a value of four feet, or 121.92 cm, was applied for the R-12 calculations.

#### *Width of Source Parallel to Groundwater Flow Direction ( $W$ ) & Width of Source Perpendicular to Groundwater Flow Direction in Horizontal Plane ( $S_w$ )*

Based on the well survey conducted on December 13, 2018, a general groundwater flow direction at the Remediation Site was determined to be to the east-southeast at  $97.67^\circ$  from north. The width parallel ( $W$ ) and perpendicular ( $S_w$ ) of the benz(a)anthracene Tier 1 SRO exceedance plume in this direction is approximately 76 feet (2316 cm) and 132 feet (4,023 cm) respectively. See corresponding Tier 2 Exhibit in this appendix.

*Distance Along Centerline of Groundwater Plume in Direction of Groundwater Flow (X)*

The distance used for the “X” variable in the R-12 calculations in the determination of Tier 2 SROs represents the distance from the contaminant plume to a receptor that could potentially consume the groundwater and become exposed. This parameter depends on the groundwater flow direction. Since the groundwater flow direction was determined to be general east (97.67° from North), the shortest distance in this direction from borings with exceedances to the Remediation Site boundary was applied to R-12. This value is equal to 15 feet, or 457.2 cm for benz(a)anthracene. See corresponding Tier 2 Exhibit in this appendix.

*First Order Degradation Constant ( $\lambda$ )*

Values applied to the R-26 model for this parameter were obtained for PNAs in Appendix C, Table E of TACO.

DRAFT

**RBCA Tier 2 SRO Calculations**  
**R-12: Soil Component of Class II Groundwater Ingestion**

Engine Company 115 - Site B  
 NW Corner of W. 119th St. S. Morgan St., Chicago, Illinois

Soil Boring/Sample (Depth) Contaminant of Concern	B-106B (1-3)	Notes:
	Benz(a)anthracene	
Organic Carbon Content of Soil Site-Specific or App. C, Table D ( $f_{oc}$ ) - g/g:	Site Specific Surface 0.010208	Values of organic matter obtained for surface soil.
Class II Groundwater Remediation Objective -- $GW_{obj}$ - mg/L:	Tier 1 GRO 0.00065	
Henry's Law Constant App. C, Table E ( $H'$ ) - $cm^3_{water}/cm^3_{air}$ :	Chem. Specific 1.39E-04	
Hydraulic gradient (i) - cm/cm:	Site Specific 0.013	Conservative value for flat site.
Infiltration Rate App. C, Table D (I) - cm/year:	Default 30	
Hydraulic Conductivity (K) - cm/day:	Site Specific 1.00E-03	Value of hydraulic conductivity obtained from Plate 1 of the Berg Circular.
Organic Carbon Partition Coefficient App. C, Table E or I ( $K_{oc}$ ) - $cm^3/g$ :	Chem. Specific 4.00E+05	
Source width perpendicular to gw flow direction in vert. plane ( $S_d$ ) - cm:	Site Specific 121.92	Vertical extent of Tier 1 SRO Exceedance in Boring B-106B (4 ft).
Source width perpendicular to gw flow direction in horiz. plane ( $S_w$ ) - cm:	Site Specific 4,023	Equal to 132 feet - See Tier 2 Exhibits.
Width of Source Area Parallel to Direction of Groundwater Movement (W) - cm:	Site Specific 2,316	Equal to 76 feet - See Tier 2 Exhibits.
Dist. along centerline of gw plume in direction of gw flow (X) - cm:	Site Specific 457.2	Equal to 15 feet - See Tier 2 Exhibits.
Groundwater Mixing Zone Thickness App. C, Table D ( $\delta_{gw}$ ) - cm:	Default 200	
Volumetric Air Content in Vadose Zone Soils App. C, Table D ( $\theta_{as}$ ) - $cm^3_{air}/cm^3_{soil}$ :	Default Surface 0.28	
Volumetric Water Content in Vadose Zone Soils App. C, Table D ( $\theta_{ws}$ ) - $cm^3_{water}/cm^3_{soil}$ :	Default Surface 0.15	
Total Soil Porosity App. C, Table D ( $\theta_T$ ) - $cm^3/cm^3_{soil}$ :	Default 0.43	
First Order Degradation Constant App. C, Table E ( $\lambda$ ) - $day^{-1}$ :	Chem. Specific 5.10E-04	
Dry Soil Bulk Density App. C, Table B ( $\rho_s$ ) - $cm^3/cm^3_{soil}$ :	Soil Default 1.5	

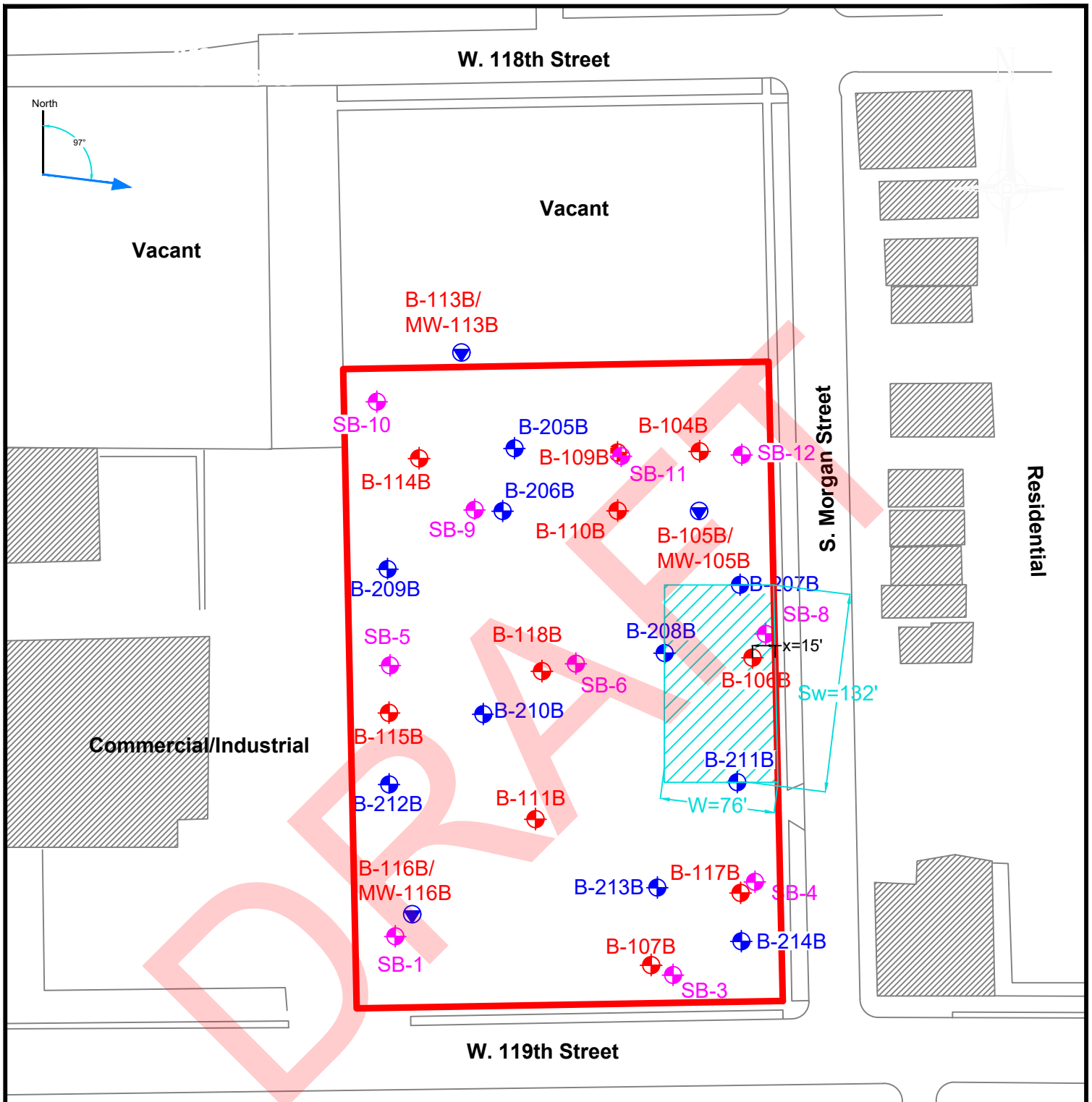
**RBCA Tier 2 SRO Calculations**  
**R-12: Soil Component of Class II Groundwater Ingestion**

Engine Company 115 - Site B  
 NW Corner of W. 119th St. S. Morgan St., Chicago, Illinois

Soil Boring/Sample (Depth) Contaminant of Concern	B-106B (1-3)	Notes:
	Benz(a)anthracene	
Longitudinal Dispersivity ( $a_x$ ) - cm R-16 $a_x=0.10*X$ :	45.72	
Transverse Dispersivity ( $a_y$ ) - cm R-17 $a_y=a_x/3$ :	15.24	
Vertical Dispersivity ( $a_z$ ) - cm R-18 $a_z=a_x/20$ :	2.29	
Error Functions: $B_1 = S_w/(4*SQRT(a_x*X))$	12.05	
From App. C, Table G enter corresp. error function value -- erf( $B_1$ ):	1	
$B_2 = S_d/(2*SQRT(a_z*X))$	1.89	
From App. C, Table G enter corresp. error function value -- erf( $B_2$ ):	1.0	
Specific Discharge (U) - cm/day R-19 $U=K*i/Q_T$ :	0.000030	
Steady-State Attenuation - unitless R-15 $C_{(x)}/C_{source}$ :	1.11E-118	
Class II Steady-State Attenuation - unitless R-13 $GW_{source}$ :	5.86E+114	
Soil Water Sorption Coefficient ( $k_s$ ) - $cm^3_{water}/g_{soil}$ R-20 $k_s=K_{oc} * f_{oc}$ :	4,083	Ks values for Inorganics taken from TACO Appendix C Table J.
Groundwater Darcy Velocity ( $U_{gw}$ ) - cm/year R-24 $U_{gw}=K*i$ :	0.00	
R-14 Leaching Factor $LF_{sw} = (mg/L_{water})/(mg/kg_{soil})$ :	2.45E-04	
Predicted Concentration in Water $C_{source}$ - mg/L:	0.00465	Inorganics values applied as Csource for R-26 Calculations.
Sample Concentration - mg/kg	<b>19.0</b>	Benzo(b)fluoranthene and naphthalene concentrations are below Tier 2 SROs, other COCs further evaluated using R-26.
R-12 Class II Remediation Objective - mg/kg	<b>2.39E+118</b>	Site-Specific Tier 2 SRO.
Soil Saturation Limit ( $C_{sat}$ ) - mg/kg	<b>NE</b>	Applicable SRO if less than value above. NE = No established value
Soil Attenuation Capacity - mg/kg	<b>2,000</b>	Applicable SRO if less than value above.

**Intermediate Solutions:**

Contaminant of Concern	Benz(a)anthracene	
Equation R-14		
$a = Q_{ws} + (k_s * r_s) + (H * Q_{as}) =$	6.12E+03	
$b = (U_{gw} * d_{gw}) / (I * W) =$	1.38E-05	
$c = a * (1 + b) =$	6.13E+03	
Equation R-12		
$a = X / (2 * a_x) =$	5	
$b = SQRT(1 + (4 * I * a_x / U)) =$	55.32	
$c = (1 - b) * a =$	-271.59	
$d = EXP(c) =$	1.12E-118	
$C_{(x)} = d * erf(B2) * erf(B1) * C_{(source)} =$	5.16E-121	



**LEGEND**

- Remediation Site Boundary
- B-100s Soil Borings
- MW-100s Monitoring Wells
- B-200s Soil Borings
- SB-1s Soil Borings - CDM 1999
- Estimated Extent of Soils Exceeding Tier 1 SROs - Soil Component of Class II Groundwater Ingestion

Date: December 2018  
 Scale: 1"= 90'  
 Drawn by: NM, KZ  
 Checked by: DSB

**Tier 2 Exhibit: Sw and W Values for R-12**  
 Proposed Engine 115 Fire Station - Site B  
 NW Corner of W. 119th St. & S. Morgan St., Chicago, Illinois 60643