

# Analysis of Brownfields Cleanup Alternatives

## Location:

Former Emkay Trading Corp. Site  
58 Church Street  
Arcade, New York 14009

## Prepared for:

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## LaBella Project No.

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## 1.0 EXECUTIVE SUMMARY

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LaBella Associates, D.P.C. (LaBella) has prepared this Analysis of Brownfield Cleanup Alternatives (ABCAs) report for the property identified as the Former Emkay Trading Corporation Site, located at 58 Church Street in the Village of Arcade, Wyoming County, New York, 14009, hereinafter referred to as the "Site" (see Figure 1). The ABCA is being completed in support of an United States Environmental Protection Agency (USEPA) Brownfields Cleanup Grant application to be submitted by WCBC North, LLC. The ABCA summarizes the known impacts at the Site and identifies and evaluates potential remedial alternatives to address the impacts.

Three remedial alternatives were retained and evaluated in the ABCA following a preliminary screening of applicable remedial methods and technologies. Alternative 1 is the no action alternative. Alternative 2 includes the controlled demolition of Site buildings; removal of underground storage tanks (USTs) and remediation of petroleum impacted soil and groundwater; removal of metals-impacted soil hot spots; and cover system installation. Alternative 3 consists of the controlled demolition of Site buildings; removal of USTs and remediation of petroleum impacted soil and groundwater; and complete removal and off-site disposal of historic fill material from across the Site.

Based on the evaluation of the effectiveness, implementability, and preliminary costs associated with the alternatives, the recommended remedial approach is Alternative 2: Spill Remediation, Hot Spot Removal and Cover System. This alternative is protective of human health and the environment; will limit the potential for exposure to contaminants; and will effectively support the proposed future use of the Site. This alternative is implementable and costs effective.

## 2.0 INTRODUCTION

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### 2.1 Purpose

LaBella was retained by WCBC North LLC to conduct an ABCA for the property identified as the Former Emkay Trading Corporation Site, located at 58 Church Street in the Village of Arcade, Wyoming County, New York, 14009 (Tax IDs: 183.9-1-32.1 and 183.9-1-32.2), hereinafter referred to as the "Site" (see Figure 1). The ABCA is being completed in support of an USEPA Brownfields Cleanup Grant application for the Site. The ABCA is being completed to evaluate potential cleanup alternatives for the Site based on the data obtained during the previous Phase II Environmental Site Assessment (ESA).

### 2.2 Project Site Background

#### 2.2.1 Project Site Location & Description

The Site consists of two contiguous parcels (Parcel IDs: 183.9-1-32.1 and 183.9-32.2) totaling 10.5 acres of land located south of North road, and west of Church Street in the Village of Arcade, New York (see Figure 2). The Site is located in a primarily residential section of the Village of Arcade and is bordered by Cattaraugus Creek, which separates the Site from the central business corridor. Surrounding properties are used for residential, educational and civic purposes. Undeveloped land also occurs along the Cattaraugus Creek corridor in the vicinity of the Site. The Site is currently vacant and tax delinquent, and was previously utilized as a dairy processing and manufacturing plant. The Site contains the remnants of a building complex comprised of multiple structures including: one 51,500 square-foot manufacturing building (Site-Building 1) that was constructed by 1912; one single-story approximately 350 square-foot building (Site Building 2) that was constructed by 1963; one single-story 3,240 square foot barn (Site Building 3) that was constructed by 1912; one single-story approximately 1,500 square foot building (Site Building 4) that was constructed between 1971 and 1981; and one single-story approximately 350 square-



floor building (Site Building 5) that was constructed by 1944. Many of the structures have been subjected to selective demolition and salvage operations over the last decade, and are in a substantially deteriorated state.

The western portion of the Site is occupied by the remnants of a wastewater treatment facility constructed circa 1963 in connection with the dairy processing and manufacturing operation. The exterior of the Site consists of overgrown grassy and wooded areas, areas of demolition debris, as well as gravel and asphalt-paved driveway and parking areas.

### **2.2.2 Project Site History**

The Site was developed by at least 1866 for apparent residential use. The Site was developed with a portion of the current Site Buildings between 1902 and 1912, and was used as a dairy processing and manufacturing facility from at least 1912 to approximately 10 years ago. Operations on the Site have historically included machine shops, a paint shop, tin shop, blacksmith, and copper shop. A gasoline filling station with USTs was present on the northeast portion of the Site in at least 1944. An oil house was depicted on the southwest portion of the Site in 1944, and a wastewater treatment facility has been located on the western portion of the Site from at least 1963. Railroad spurs have been located on the south portion of the Site since at least 1912. Properties adjacent to the Site have historically been used for manufacturing, educational, or residential purposes.

### **2.2.3 Previous Environmental Investigations**

#### Phase I ESA by LaBella Associates DPC, dated September 22, 2021

A Phase I ESA report was completed for the Site dated March 4, 2020 that recommended further investigation. In March 2020, a Phase II ESA was completed at the Site. The September 2021 Phase I ESA was prepared to update the March 2020 report to reflect the findings of the Phase II ESA. The most recent Phase I ESA identified the following recognized environmental conditions (RECs) associated with the Site:

- The Site has been used as a dairy processing and manufacturing facility since at least 1912, and included machine shops, a blacksmith, paint shop, tin shop, cooper shop and oil house (in at least 1944) as part of on-Site operations.
- A filling station, including gasoline underground storage tanks (USTs), was present on the northeast corner of the Site in at least 1944. At the time of the site visit, five suspect vent pipes were observed along Site Building 5 near the northeast corner of the Site. A concrete pad was additionally noted to the south of Site Building 5. The Phase II ESA identified four USTs east of Site Building 5 and soil and groundwater petroleum impact proximate the UST field and former fuel dispenser island.
- Pipes of unknown nature were observed at the Site, including two to the south of Site Building 2, and one on the north portion of the wastewater treatment area of the Site at the time of the site visit.
- 55-gallon drums were observed throughout the Site at the time of the site visit.
- Railroad spurs have been present on the south portion of the Site since at least 1912.
- A wastewater treatment plant has been present on the west portion of the Site since at least 1963.
- Several areas of stained soil and gravel were observed to the north of Site Building 1 at the time of the site visit.
- A large metallic scale was observed to the south of Site Building 1 at the time of the site visit.
- Friable asbestos is confirmed to be present throughout the Site.



- Based on findings of the Phase II ESA completed in March 2020 the following was identified:
  - Four USTs and petroleum impact in the Site soil and groundwater was identified on the northeast portion of the Site. A New York State Department of Environmental Conservation (NYSDEC) spill (#1908745) was reported due to the petroleum impact identified.
  - Contaminants including arsenic, lead, mercury, polycyclic aromatic hydrocarbons (PAHs), and polychlorinated biphenyl (PCB) aroclor-1254 were detected in surface and subsurface soil/fill samples at concentrations exceeding Unrestricted Use Soil Cleanup Objectives (SCOs)

Draft Phase II ESA by LaBella Associates. dated March 2020

LaBella completed a Phase II ESA at the Site dated March 2020. The Phase II ESA included the following:

- Surface soil/fill characterization
- Subsurface soil/fill investigation
- Groundwater investigation
- UST investigation

The findings of the Phase II ESA include:

- Friable asbestos containing material (ACM) was documented within demolition debris located on the western portion of the Site during a previous study, which also identified friable and non-friable ACM within portions of the remaining structures.
- Fill material of unknown origin was encountered across the Site from below the vegetative cover or concrete to depths up to seven feet (ft.) below ground surface (bgs).
- Four unregistered USTs ranging in size from 500 to 4,000 gallons were uncovered on the northeast portion of the Site in the area of a former filling station.
- Field and laboratory data indicated the soil/fill and groundwater in the vicinity of the USTs and former fuel dispensing island is contaminated with petroleum constituents commonly associated with gasoline at concentrations above applicable Standards, Criteria and Guidance levels (SCGs).
- As a result of the petroleum contamination detected in the former filling station area, a spill was reported to NYSDEC and an active spill file (#1908745) was assigned to the Site.
- Contaminants, including arsenic, lead and mercury, were detected in Site-wide surface soil/fill samples at concentrations exceeding NYSDEC Part 375 Unrestricted Use SCOs. The level of arsenic detected in surface soil/fill in one area north of the former manufacturing complex also exceeded the Restricted Residential, Commercial and Industrial Use SCOs.
- Concentrations of arsenic, lead and mercury that exceeded Unrestricted and Restricted Residential SCOs were also detected in subsurface soil/fill collected from multiple test pit locations across the Site.
- Concentrations of multiple PAHs exceeded and/or equaled the Unrestricted and Restricted Residential Use SCOs in the subsurface soil/fill sample collected in the area between the former manufacturing complex and Cattaraugus Creek.
- PCB aroclor-1254 was detected in the surface and subsurface soil/fill samples collected at one location to the north of the former manufacturing complex at concentrations exceeding the Unrestricted Use SCO.
- Based on the results of this assessment, which documented the presence of soil and groundwater contamination on the Site at levels exceeding the applicable SCGs, it appears that the Site would be eligible for entry into the NYSDEC Brownfield Cleanup Program (BCP). A formal BCP eligibility



determination, however, cannot be made without submittal of a complete BCP application to NYSDEC.

- The scope and corresponding cost of further investigation and/or remedial actions at the site cannot be determined without a site-specific review of Site conditions by the NYSDEC within the context of the applicable regulatory programs (i.e., Spills Program, BCP, etc.). However, LaBella has developed a list of general response actions that could reasonably be expected to render the site suitable for restricted residential use and are described herein. The Rough Order of Magnitude (ROM) cost estimate for implementing these actions is \$1.93M. This ROM cost estimate is preliminary in nature and has an accuracy of +/- 50%.

A copy of the LaBella Phase II ESA is included in Appendix 1.

#### ***2.2.4 Project Goal***

WCBC North, LLC, in collaboration with the Wyoming County Business Center (WCBC), Wyoming County and the Village of Arcade, seeks to stimulate the cleanup and redevelopment of this tax delinquent Site, which has been complicated by environmental concerns related to known and suspected contamination, as well as by the dilapidated condition of the remaining structures. The chemical and physical hazards associated with the Site represent threats to the community and the environment, and the building complex constitutes both an eyesore and attractive nuisance. WCBC North has entered into a designated developer agreement with a prospective developer that intends to cleanup and redevelop the property with a \$10M mixed use development anchored by an 80-unit, market rate senior housing facility. In collaboration with the designated developer, WCBC North is pursuing USEPA Brownfield Cleanup Program funding to prepare the Site for cleanup and redevelopment through demolition of the building complex and removal of the contaminated debris from the Site. In turn, the designated developer plans to pursue the liability protections and tax credits available through the New York State Brownfield Cleanup Program (BCP) to address the remaining environmental concerns associated with the Site and complete the redevelopment project.

### **3.0 STANDARDS, CRITERIA, AND GUIDANCE**

The anticipated remedial activities would be completed under the supervision of the NYSDEC Department of Environmental Remediation and Spills Division. The SCGs identified were used in order to quantify the extent of contamination at the Site that requires remedial work based on the cleanup goal and anticipated future use of the Site. The SCGs utilized as part of the evaluation of this ABCA are identified below:

**Soil SCGs:** The following SCGs for soil were used to evaluate the Site:

- NYCRR Subpart 375-6 Remedial Program Soil Cleanup Objectives (RPSCOs) for the Protection of Public Health/Restricted Residential Use; and
- NYSDEC Petroleum-Contaminated Soil Guidance Commissioner's Policy 51 (CP-51), Tables 2 and 3, Hazardous Waste Determination and Regulatory Levels, October 21, 2010

**Groundwater SCGs:** The following SCGs for sub-slab vapor and indoor air were used to evaluate the Site:

- NYSDEC's June 1998 Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations in the Technical and Operational Guidance Series (TOGS) 1.1.1. Ambient Water Quality Standards (AWQS)



## 4.0 CONTAMINATION ASSESSMENT

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Based on the findings of the previous Phase II ESA, the sections below provide an assessment of contaminants detected on the Site at levels exceeding the SCGs.

### 4.1 Nature and Extent of Contamination

#### 4.1.1 Asbestos Containing Building Materials

A Limited Pre-Demolition ACM Inspection was prepared by LaBella, dated August 2019. The survey focused on the demolition debris present on the western portion of the Site; the remnants and debris associated with the partially razed building referred to as the Barn (Site Building 3); and the western portion of the tank building (Site Building 1). Laboratory analysis of samples of the suspect ACMs identified by LaBella confirmed that: (1) uncontrolled friable and non-friable ACM is present within demolition debris on the western portion of the site; (2) friable and non-friable ACM in the form of window glazing, pipe insulation, felt paper debris and roofing material is present within the remnants of the Barn structure; and (3) numerous friable and nonfriable ACMs including readily visible Galbestos and Transite siding are present in the Tank Building.

The report indicated that demolition debris piles were located throughout the areas inspected, and that ACM is comingled within the demolition debris. Therefore, it was stated that all debris piles should be considered asbestos containing and handled appropriately.

Furthermore, the report indicated that the building envelopes of multiple structures on the Site are failing, with significant structural deficiencies observed. Consequently, certain areas of the buildings were excluded from inspection or could not be fully inspected due to building envelope and structural deficiencies.

#### 4.1.2 UST Area

The Phase II ESA uncovered four USTs in the area to the east of the former filling station (Building 5). Based on the tank measurements taken, the approximate volumes of the USTs are as follows:

- UST #1: 1,000 gal
- UST #2: 1,000 gal
- UST #3: 500 gal
- UST #4: 4,000 gal

All four of the USTs appeared to be filled to capacity with fluids that resembled a mixture of water and petroleum product. Petroleum odors, staining and elevated PID readings were noted in the soil/fill immediately surrounding the USTs. As a result, LaBella contacted the NYSDEC Spill Hotline to report the contamination and Spill #1908745 was assigned to the Site.

Additionally, as part of the Phase II ESA four test pits were excavated in the vicinity of the former filling station to assess subsurface conditions in areas presumed to be down-gradient of the UST field, underground piping and former dispenser island. Petroleum-type odors, staining and elevated PID readings were observed at all four test pit locations.



VOCs commonly associated with gasoline, primarily Benzene, Toluene, Ethylbenzene and Xylene, collectively referred to as BTEX compounds, were detected at concentrations exceeding the NYSDEC CP-51 SCGs in three of the test pits completed proximate the UST field and former dispenser island. The highest frequency and concentration of VOC detections was found in UST Test Pit 2, situated between the UST field and former dispenser island. The petroleum impact proximate the UST field and former dispenser island is assumed to extend from within two feet of the ground surface to depth of 10 to 12 ft bgs. The petroleum impact is assumed to be present across an approximate 3,500 square-foot area proximate the UST field and former dispenser island, totaling approximately 2,500 tons of subsurface petroleum impacted soil.

Two groundwater monitoring wells were installed down-gradient from the UST field and the former dispenser island, respectively. The groundwater samples collected and analyzed from the monitoring wells identified BTEX compounds in the groundwater sample collected from proximate the former dispenser island (MW-3) at concentrations exceeding the NYSDEC TOGS 1.1.1 AWQS. Additionally, two SVOCs (2-methylnaphthalene and naphthalene) were also detected in MW-3 at levels exceeding the NYSDEC TOGS AWQS. Petroleum groundwater impact is assumed to be present in the area proximate the former dispenser island.

Figures 3 and 4 include the locations of the identified USTs, test pit locations, and groundwater monitoring well locations. Refer to Tables 2 and 4 within the Phase II ESA included in Appendix 1 for summaries of the subsurface soil/fill and groundwater sample analytical results.

#### *4.1.3 Arsenic and Lead Impacted Soil/Fill Hotspots*

Arsenic was detected in surface and subsurface soil/fill samples collected from test pit TP-9, located north of Site Building 3, at a concentration of 72.1 milligrams per kilogram (mg/kg) (surface soil/fill) and 73.8 mg/kg (subsurface soil/fill), exceeding the Restricted Residential, Commercial and Industrial Use SCOs. Arsenic and lead were detected in the subsurface soil/fill sample collected from test pit TP-5, located south of Site Building 1, at concentrations of 19.2 mg/kg and 2,340 mg/kg, respectively. Arsenic in TP-5 exceeds the Restricted Residential, Commercial and Industrial Use SCOs, while lead exceeds the Restricted Residential and Commercial Use SCOs. Arsenic was detected in the subsurface soil/fill sample collected from test pit TP-3, located southwest of Site Building 1, at a concentration of 35.8 mg/kg, exceeding the Restricted Residential, Commercial and Industrial Use SCOs. The soil/fill samples collected from TP-3, TP-5, and TP-9 appear to be associated with soil/fill materials approximately two feet thick occurring between one to two ft bgs. For the purposes of this evaluation the assumed total area of arsenic and lead impacted soil/fill proximate TP-3, TP-5, and TP-9 is 940 square-feet, totaling approximately 500 tons.

Figures 3 includes the test pit locations. Refer to Tables 1 and 3 within the Phase II ESA included in Appendix 1 for summaries of the surface soil/fill and subsurface soil/fill sample analytical results.

#### *4.1.4 Surface and Subsurface Soil/Fill*

Fill material was encountered across the Site from below the vegetative cover or asphalt to depths ranging from two to seven ft bgs. Fill material generally consisted of dark brown to gray fine and coarse sand with gravel, brick, coal and concrete throughout a majority of the Site. A 1-2 ft thick coal-like substance was observed at a depth of two to four ft bgs within the test pits excavated along the northern, western and southern perimeters of the former manufacturing building. With the exception of the arsenic detection in the surface soil/fill in TP-9 discussed in Section 6.1.3 above, no parameters were detected in the surface soil/fill at the Site at concentrations exceeding Restricted Residential Use SCOs. Parameters detected in the subsurface soil/fill at the Site were limited to the arsenic and lead detections discussed in Section 6.1.3 above, and three SVOCs, consisting of PAHs, in TP-5. Based on the presence of fill material across the Site, it is assumed that additional areas of surface and/or shallow subsurface soil/fill with parameter



concentrations exceeding Restricted Residential Use SCOs may be present at the Site.

## **4.2 Potential Exposure Pathways**

### **4.2.1 Asbestos Containing Building Materials**

Based on the locations and current condition of some of the ACM, under the current use scenario, persons entering the Site could be exposed to ACM. Additionally, nearby residents and members of the public could be exposed to asbestos fibers dispersed from the Site by wind currents.

Construction workers, site visitors, and members of the public living and working adjacent to the Site could be exposed to ACM in connection with Site redevelopment. Potential exposure routes for these receptors include inhalation and incidental ingestion. However, the use of appropriate personal protective equipment, dust suppression techniques, and personal/air monitoring conducted during abatement and or controlled-demolition activities would minimize the risk of exposure during this stage of the project.

Following the completion of abatement activities and/or controlled demolition of structures containing ACM, no complete exposure pathways to ACM have been identified in connection with the post-redevelopment period.

### **4.2.2 UST Area**

The presence of elevated concentrations of VOCs in the subsurface soil/fill proximate the UST field and former dispenser island is generally not interpreted to represent a human exposure risk because no complete exposure pathways were identified under the current use scenario for the Site. This is a function of the disposition of the contamination in the subsurface of the Site, which minimizes the potential for the incidental ingestion of, or dermal contact with the contaminated media, and the lack of use of Site groundwater as a potable drinking water source. Environmental exposure via the discharge of petroleum contaminated groundwater into Cattaraugus Creek, however, is possible now or in the future under current conditions.

Environmental receptors, construction workers, site visitors, and persons living and working adjacent to the Site could be exposed to VOCs in the subsurface soil/fill during excavation of the USTs and contaminated soil/fill in connection with the required spill remediation and Site redevelopment activities. Potential exposure routes for these receptors include inhalation of contaminated dust or vapors and incidental ingestion of and/or dermal contact with the contaminated soil/fill. However, the appropriate management of Site soil/fill materials and use of appropriate personal protective equipment, dust suppression techniques and Site monitoring would minimize the risk of exposure during this stage of the project.

No complete exposure pathways have been identified in connection with the post-redevelopment period, based on the anticipated spill remediation activities including the removal of the USTs and impacted soil, and groundwater remediation, if necessary, prior to Site redevelopment.

### **4.2.3 Arsenic and Lead Impacted Soil/Fill Hotspots**

The presence of elevated concentrations of arsenic in the surface soil/fill at TP-9 represents a human and environmental exposure risk under the current use scenario. There is the potential for exposure through inhalation of contaminated dust and incidental ingestion of, or dermal contact with the contaminated media. Environmental exposure via the discharge of contaminated storm water runoff into Cattaraugus Creek is also possible now or in the future under current conditions.

Environmental receptors, construction workers, site visitors, and persons living and working adjacent to the Site could be exposed to arsenic and lead in the surface and subsurface soil/fill during excavation of the



contaminated soil/fill in connection with Site redevelopment activities. Potential exposure routes for these receptors include inhalation of contaminated dust and incidental ingestion of and/or dermal contact with the contaminated soil/fill. However, the appropriate management of Site soil/fill materials and use of appropriate personal protective equipment, dust suppression techniques and Site monitoring would minimize the risk of exposure during this stage of the project.

No complete exposure pathways have been identified in connection with the post-redevelopment period, based on the proposed hot spot removal of elevated arsenic and lead impacted soil/fill material.

#### **4.2.4 Surface and Subsurface Soil/Fill**

The potential presence of elevated concentrations of SVOCs and metals in the surface and subsurface soil/fill represents a human and environmental exposure risk under the current use scenario. There is the potential for exposure through inhalation of contaminated dust and incidental ingestion of, or dermal contact with the contaminated media. Environmental exposure via the discharge of contaminated storm water runoff into Cattaraugus Creek is also possible now or in the future under current conditions

Environmental receptors, construction workers, site visitors, and persons living and working adjacent to the Site could be exposed to SVOCs and metals in the surface and subsurface soil/fill during disturbance or excavation of the contaminated soil/fill in connection with Site redevelopment activities. Potential exposure routes for these receptors include inhalation of contaminated dust and incidental ingestion of and/or dermal contact with the contaminated soil/fill. However, the appropriate management of Site soil/fill materials and use of appropriate personal protective equipment, dust suppression techniques and Site monitoring would minimize the risk of exposure during this stage of the project.

No complete exposure pathways have been identified in connection with the post-redevelopment period following the implementation of institutional and engineering controls.

## **5.0 CLEANUP ALTERNATIVES ANALYSIS**

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### **5.1 Cleanup Alternatives Analysis Objective**

The objective of the Cleanup Alternatives Analysis (CAA) is to evaluate cleanup alternatives and select remedial actions to be implemented at the Site for the intended re-use of the Site. The cleanup alternatives were evaluated for effectiveness, implementability, and preliminary cost. The intended future use of the Site is multi-unit residential and commercial mixed-use with a restricted residential use cleanup objective.

### **5.2 Cleanup Alternatives**

This section develops the remedial alternatives being considered to address the contaminated media at the Site. Three different alternatives were considered and are summarized in the sections below.

#### **5.2.1 Alternative 1: No Action**

The No Further Action Alternative is included for procedural purposes and as a baseline against which to evaluate other alternatives. Under this alternative, no remedial or monitoring activities would occur and no environmental easement would be recorded. Existing contamination would remain in place and uncontrolled.



### 5.2.2 Alternative 2: Spill Remediation, Hot Spot Removal and Cover System

This alternative would involve the completion of asbestos abatement of select portions of the Site Buildings, if necessary, controlled demolition of the Site Buildings, and removal and disposal of debris piles containing ACM.

The identified USTs and associated petroleum impacted soil/fill would be properly removed and disposed of off-Site in accordance with NYSDEC requirements and guidance. This would include the removal of the four UST and their contents, excavation and off-Site disposal of an assumed 2,500 tons of petroleum impacted soil/fill, and in-situ treatment of residual petroleum impacted groundwater.

The arsenic and lead impacted soil/fill hot spots at TP-3, TP-5, and TP-9 would be excavated and transported off-Site for proper disposal. The arsenic and lead impacted soil/fill would be removed until concentrations are below Restricted Residential Use SCOs. For the purposes of this evaluation, it is assumed the total area for removal of arsenic and lead impacted soil/fill is 940 square-feet, totaling approximately 500 tons.

In conjunction with Site redevelopment plans, areas of the Site not proposed to be covered with impermeable surfaces (i.e. buildings slabs, driveways, parking lots, and sidewalks) will be assessed through the implementation of a surface soil/fill sampling program. The surface soil/fill sampling program will target areas of the Site not intended to be covered with impermeable surfaces to determine if SVOCs or metals are present in the surface soil/fill in these areas at concentrations exceeding Restricted Residential Use SCOs and necessitating placement of a clean soil cover during Site redevelopment. For the purposes of this evaluation, it is assumed that 60% of the Site will be redeveloped with impermeable surfaces and 50% of the remaining open space will require a clean soil cover resulting in approximately 20% or approximately 1.7 acres of the Site receiving clean soil cover. The placement of a cover system across portions of the Site would mitigate the potential for exposure of Site occupants to SVOC and metals impacted soil/fill at the Site. The clean soil cover system would include the placement of a demarcation layer over the required areas of the Site soil/fill, overlain with 1.5 ft of imported clean fill and six inches of clean imported topsoil. Vegetation would be established on the soil cover system to prevent erosion.

Standard institutional controls would also be implemented under this alternative to address the remaining contaminants at the Site. Specifically, a Site Management Plan (SMP) incorporating an Excavation Work Plan and Engineering and Institutional Control certification requirements would be developed and enforced through an environmental easement. The SMP will include details for conducting necessary future intrusive work (e.g. sewer or buried utility work) and proper Site soil/fill management. Future intrusive work should be completed under the direction of a qualified environmental professional and appropriate health and safety measures. The environmental easement would restrict use of the Site to restricted residential or higher applications and preclude groundwater use without treatment.

The Environmental Easement would be filed with Wyoming County to run with the deed and include the following requirements:

- The property use will be restricted to restricted residential, or less stringent uses
- The Site cover system will remain in place
- Compliance with the SMP is required
- An EWP will be implemented for all invasive activities at the Site
- The use of groundwater without treatment and New York State Department of Health approval will be prohibited



- Annual certification that institutional and engineering controls will be required

### 5.2.3 Alternative 3: Spill Remediation and Complete Soil/Fill Removal

Under this cleanup alternative, the ACM identified at the Site Building would be remediated through asbestos abatement of select portions of the Site Buildings, if necessary, and controlled demolition and debris removal for the Site Building and debris piles at the Site. The identified USTs and associated petroleum impacted soil/fill would be properly removed and disposed of off-Site in accordance with NYSDEC requirements and guidance. All soil/fill material at the Site would be excavated and disposed of off-Site. The soil/fill material is assumed to be present across the Site at to average depth of four ft. Based on the assumed average thickness of the soil/fill material across the Site, the estimated quantity of material requiring removal at the Site is approximately 87,800 tons. The same quantity of clean soil/fill would be necessary to backfill the excavation. This alternative would achieve Unrestricted Use SCoS per NYSDEC Part 375 and would preclude the need for engineering and institutional controls.

## 5.3 Evaluation of Cleanup Alternatives

The following sections summarize the evaluation of the cleanup alternatives discussed above relative to the effectiveness, implementability, and preliminary cost of the alternatives.

### 5.3.1 Alternative 1: No Action

**Effectiveness:** This alternative will not be effective in protecting human health or the environment. This alternative would not address source area materials or mitigate exposure to contaminants at the Site, and, would therefore not comply with the SCGs for the Site. This alternative provides no long-term maintenance measures and, as such, provides no reliable long-term control against exposure to impacted fill. All current and future risks would remain under this alternative. There would be increased short-term risks posed to Site workers, occupants, or persons trespassing as damaged ACMs are present within the Site Buildings and debris piles, and arsenic impacted soil/fill is present at the surface in a portion of the Site. Potential impacts to Cattaraugus Creek from impacted storm water runoff and/or discharge of contaminated groundwater would remain. This alternative would not facilitate the proposed future redevelopment of the Site.

**Implementability:** No technical implementability issues or action-specific administrative implementability issues are associated with this alternative.

**Preliminary Cost:** There is no capital or operation, maintenance, and monitoring (OM&M) costs associated with this alternative.

### 5.3.2 Alternative 2: Spill Remediation, Hot Spot Removal and Cover System

**Effectiveness:** This alternative is protective of human health and the environment. ACMs will be remediated through the completion of asbestos abatement of select portions of the Site Buildings, if necessary, controlled demolition of the Site Buildings, and removal and disposal of debris piles containing ACM. The USTs and petroleum impacted soil and groundwater will be remediated to the satisfaction of the NYSDEC, arsenic and lead impacted soil/fill hot spots will be excavated and disposed off-Site, and a cover system will be established in required areas of the Site to mitigate and limit potential exposure to residual contamination at the Site. To further protect human health, any future invasive or renovation work would be performed in accordance with a SMP. This alternative would not be in full compliance with SCGs, as not all contaminated soil/fill material exceeding Restricted Residential Use SCoS would be removed from the Site. However, the removal of all soil/fill material exceeding the SCGs is not considered practical due to the large quantity of material present at the Site. The cover system would be effective in the long-term to



limit the potential for exposure to soil/fill material at the Site. The efficacy of the cover system will be maintained and monitored through the SMP. Periodic Engineering and Institutional Control certification requirements would be required to assure the long-term cover integrity. The implementation of institutional controls via an Environmental Easement would aid in the long-term remedy of the Site. Potential increases to short-term risks for the workers during the remedial activities would be mitigated via the implementation of air monitoring, dust control, and appropriate health and safety measures during the work. This alternative would be effective in promoting the proposed future redevelopment of the Site.

*Implementability:* No significant technical or administrative implementability issues are associated with this alternative.

*Preliminary Cost:* The estimated costs for this alternative are summarized in Table 1. The total estimated cost for this alternative is **\$1,504,915**.

### **5.3.3 Alternative 3: Spill Remediation and Complete Soil/Fill Removal**

*Effectiveness:* This alternative is protective of human health and the environment through the complete removal and off-Site disposal of ACM, and petroleum, SVOC, and metals impacted soil/fill material at the Site. This alternative would remove all contaminated soil/fill material to Unrestricted SCOs and would be in compliance with SCGs. This alternative would achieve removal of all impacted soil/fill material from the Site and constitutes a permanent long-term solution. Post-remedial monitoring and certifications would not be required. Short-term adverse impacts and risks to the community, workers, and environment during implementation of this alternative are possible due to the extensive disturbance and traffic associated with the removal of the large volume of contaminated soil/fill and equally large volume of clean imported fill required. This alternative would be effective for the proposed redevelopment of the Site.

*Implementability:* Significant technical and administrative implementability issues would be encountered in the implementation of this alternative. These include, but are not limited to, the disposal of a large quantity of material in a landfill and the import of a large volume of backfill.

*Preliminary Cost:* The estimated costs for this alternative are summarized in Table 2. The total estimated cost for this alternative is **\$6,999,915**.

## **5.4 Comparative Evaluation of Alternatives**

Alternative 1: No Action would not be protective of human health and the environment; would not be in compliance with SCGs; would not be an effective long-term remedy; and would not be consistent with the reasonably anticipated future use of the Site. This alternative cannot be recommended as it does not address the risks associated with the Site contaminants.

Alternative 3: Spill Remediation and Complete Soil/Fill Removal would be protective of human health and the environment; would be a long-term and permanent remedy; but could create short-term adverse impacts and risks to the community, workers, and environment during implementation. This alternative cannot be recommended based on the implementability issues and high cost level.

### **5.4.1 Recommended Cleanup Alternative**

The recommended cleanup alternative to address the contaminants at the Site is Alternative 2: Spill Remediation, Hot Spot Removal and Cover System. This alternative is protective of human health and the environment; will limit the potential for exposure to contaminants; and will be effective for the proposed



future use of the Site. This alternative is implementable and the assumed costs are appropriate. This alternative includes:

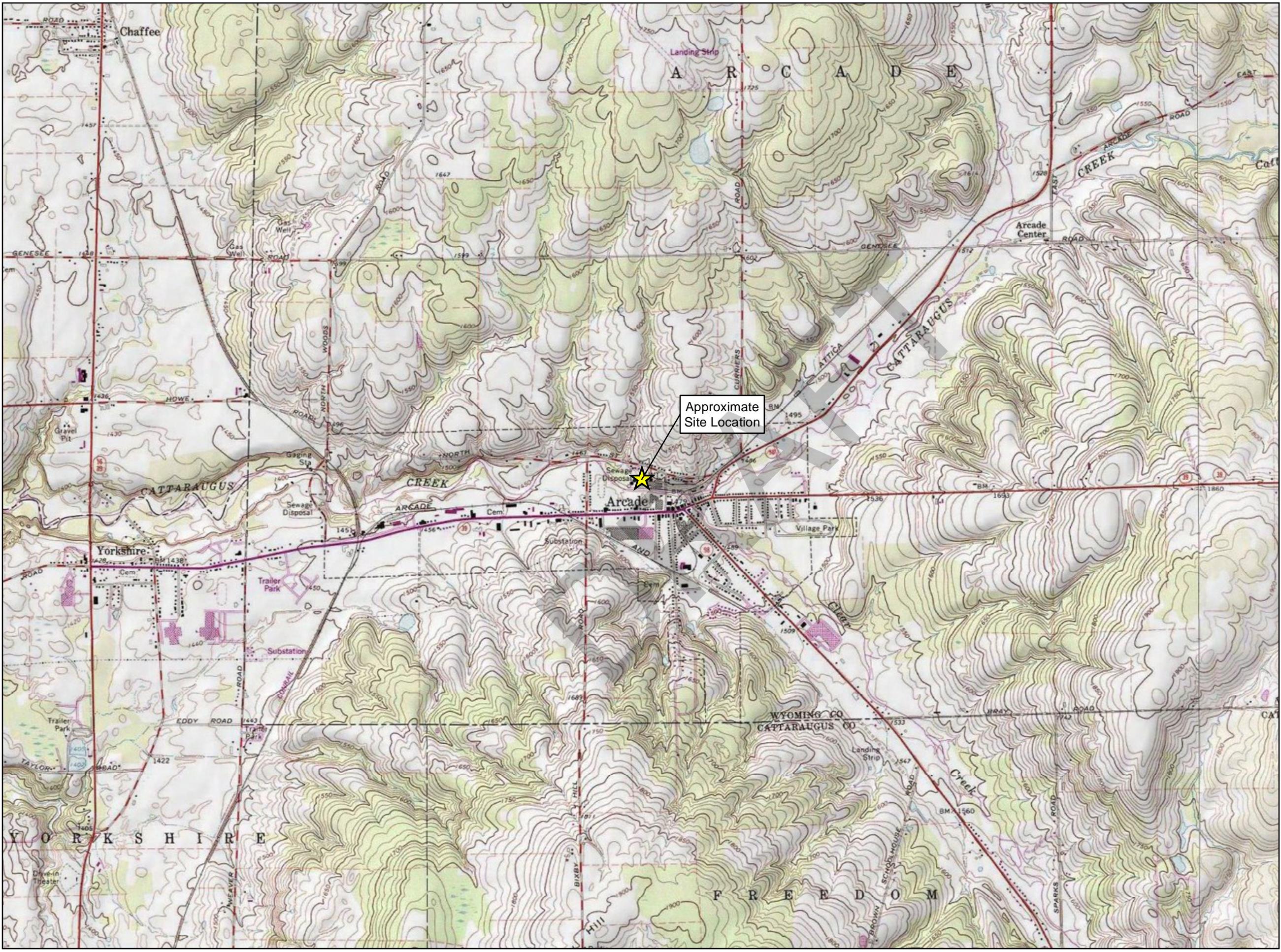
- Asbestos abatement of select portions of the Site Buildings, if necessary, controlled demolition of the Site Buildings, and removal and disposal of debris piles containing ACM.
- Removal of USTs and associated petroleum soil/fill impact, and in-situ treatment of residual petroleum impacted groundwater.
- Excavation and off-Site removal of arsenic and lead impacted soil/fill hot spots.
- Implementation of a surface soil/fill sampling program to identify areas of the Site not intended to be covered by impermeable surfaces that will require a clean soil cover system.
- Construction of a clean soil cover system in areas not covered with impermeable surfaces that have been identified with surface soil/fill exceeding Restricted Residential Use SCOs.
- The implementation of a SMP
- The placement of an environmental easement on the property
- The completion of annual certification of the engineering and institutional controls

J:\WCBC North LLC\2193071 - 58 Church St Arcade Ph I & II\Reports\ABCA Report\2193071\_58 Church St\_ABCA Report\_Draft\_11.5.2021.docx

DRAFT

FIGURES



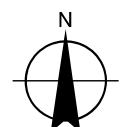


## Analysis of Brownfield Cleanup Alternatives

58 Church Street  
Arcade, NY 14009

### Legend

★ Approximate Site Location



0 1,000 2,000  
Feet



**Figure 1**  
**Site  
Location Map**

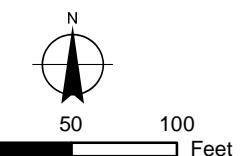
LaBella Project No: 2193071  
Date: 11/4/2021



**Analysis of Brownfield  
Cleanup Alternatives**  
58 Church Street  
Arcade, NY 14009

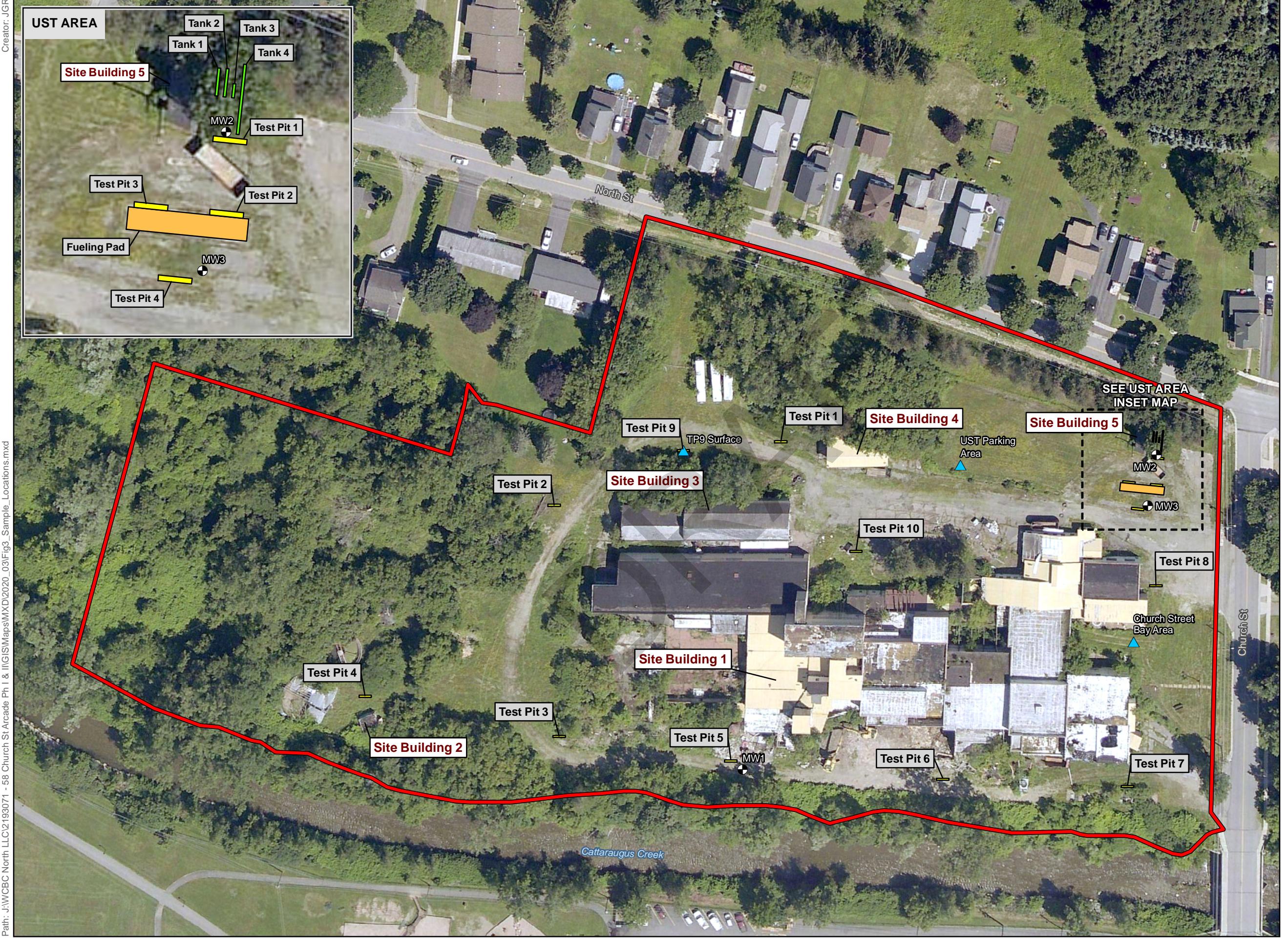
**Legend**

Site Boundary (Approximate)



**Figure 2**  
**General Site  
Plan**

LaBella Project No: 2193071  
Date: 11/4/2021

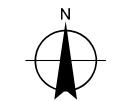


## Analysis of Brownfield Cleanup Alternatives

58 Church Street  
Arcade, NY 14009

### Legend

- Groundwater Monitoring Well
- ▲ Surface Grab Sample
- Fueling Pad
- Tank
- Test Pit
- Site Boundary (Approximate)



**Figure 3**  
**Sample Location Map**

LaBella Project No: 2193071  
Date: 11/4/2021



PROJECT #/DRAWING #/DATE:

2193071

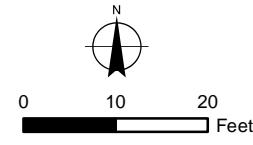
Figure 4

11/4/2021

DRAWING NAME:

Underground Storage  
Tank Location Map

PROJECT:

Analysis of Brownfield  
Cleanup Alternatives  
58 Church Street  
Arcade, NY 14009**LaBella**  
Powered by partnership.



**TABLE 1**  
**ALTERNATIVE 2: SPILL REMEDIATION, HOT SPOT REMOVAL & COVER SYSTEM**  
**REMEDIAL COST ESTIMATE**  
**Former Emkay Trading Site**  
**58 Church Street, Arcade, New York**

Item	Estimated Quantity	Unit Cost	Estimated Total
<b>UST Removals</b>			
Vac Truck & Operator	16 hrs	\$140 /hr	\$2,240
Fluid disposal	6,500 Gallons	\$0.75 /Gallon	\$4,875
Tank Removal	1 LS	\$8,000 /LS	<u>\$8,000</u>
		<i>UST Removal:</i>	<b>\$15,115</b>
<b>Removal of Petroleum Impacted Soil (Filling Station Area)</b>			
Soil Excavation/Loading	2,500 tons	\$7 /ton	\$17,500
Soil Transport and Disposal	2,500 tons	\$40 /ton	\$100,000
Provide and Place Backfill	2,500 tons	\$19 /ton	<u>\$47,500</u>
		<i>Removal of Petroleum Impacted Soil:</i>	<b>\$165,000</b>
<b>In-Situ Groundwater Remediation (Filling Station Area)</b>			
In-Situ Reagent	20,000 SF	\$2.50 /SF	\$50,000
Geoprobe & Operator	10 days	\$1,800 /day	\$18,000
Pre and Post Groundwater Sampling	1 LS	\$7,000 /LS	<u>\$7,000</u>
		<i>In-Situ Groundwater Remediation:</i>	<b>\$75,000</b>
<b>Limited Soil/Fill Removal/Disposal (Hot Spot Removal)</b>			
Soil Excavation/Loading	500 tons	\$7 /ton	\$3,500
Soil Transport and Disposal	500 tons	\$40 /ton	\$20,000
Provide and Place Backfill	500 tons	\$19 /ton	<u>\$9,500</u>
		<i>Limited Soil/Fill Removal/Disposal:</i>	<b>\$33,000</b>
<b>Vegetated Soil Cover System</b>			
Surface Soil/Fill Sampling	1 LS	\$37,000 /LS	\$37,000
Place and Compact Clean Backfill and Topsoil	1 LS	\$50,000 /LS	\$50,000
Purchase/Deliver 1.5' of Backfill	4,200 CY	\$35 /CY	\$147,000
Purchase/Deliver 6" of Topsoil	1,400 CY	\$37 /CY	\$51,800
Imported Soil/Fill Testing and Approval	1 LS	\$10,000 /LS	\$10,000
Demarcation Layer	15 each	\$500 /roll	\$7,500
Erosion Control Measures	1 LS	\$10,000 /LS	\$10,000
Pre and Post Topographic Survey	1 LS	\$15,000 /LS	\$15,000
Hydroseed	2 Acres	\$2,000 /Acres	<u>\$4,000</u>
		<i>Vegetated Soil Cover System:</i>	<b>\$332,300</b>
<b>Demolition of Building Complex</b>			
Controlled Demolition & Disposal of Existing Bldg. Complex & Debris	1 SF	\$700,000 /LS	<u>\$700,000</u>
		<i>Building Demolition:</i>	<b>\$700,000</b>
<b>Engineering, Monitoring &amp; Oversight</b>			
Engineering, Monitoring & Oversight per BCP Process	1 SF	\$150,000 /LS	<u>\$150,000</u>
		<i>Engineering and Oversight:</i>	<b>\$150,000</b>
<b>Operation, Maintenance &amp; Monitoring</b>			
Annual Certification (30 yrs)			\$34,500
		<i>Operation, Maintenance &amp; Monitoring:</i>	<b>\$34,500</b>
		<b>Estimated Total</b>	<b>\$1,504,915</b>

**Notes/Assumptions:**

1. All contaminated soil/fill to be removed from the site for off-site disposal is assumed to be classified as non-hazardous waste for disposal purposes.
2. Assumes only the eastern 8.5 acres of the Site will be redeveloped under the BCP, and that the western portion will remain undeveloped and not require remediation.
3. Assumes redevelopment of the Site will involve the construction of impervious cover (i.e., asphalt parking areas, concrete building slabs, etc.) on 60% of the 8.5 acres, and that these cover materials will satisfy the BCP requirements for engineering controls.
4. Assumes the surface soil/fill sampling plan on the remaining 40% of the 8.5 acres will find 50% of that area requires a soil cover totaling 20% of the 8.5. The soil cover will consist of 2' of clean soil pursuant to restricted residential use guidelines.
5. The volumes of contaminated soil/fill are estimates based on limited data. Additional data is required to fully delineate the extent of contamination.
6. The area of impacted groundwater to be subject to in-situ treatment has been estimated based on limited data. Additional data is required to fully delineate the extent of groundwater contamination and the corresponding treatment area.
7. Assumes the building complex will be demolished using controlled demolition methods to address Asbestos Containing Material (ACM)
8. Actual costs will be a function of the remedial actions required by NYSDEC & NYSDOH, which have yet to be defined and may vary significantly from those estimated herein.

**TABLE 2**  
**ALTERNATIVE 3: SPILL REMEDIATION AND COMPLETE SOIL/FILL REMOVAL**  
**REMEDIAL COST ESTIMATE**  
**Former Emkay Trading Site**  
**58 Church Street, Arcade, New York**

Item	Estimated Quantity	Unit Cost	Estimated Total
<b>UST Removals</b>			
Vac Truck & Operator	16 hrs	\$140 /hr	\$2,240
Fluid disposal	6,500 Gallons	\$0.75 /Gallon	\$4,875
Tank Removal	1 LS	\$8,000 /LS	\$8,000
		<i>UST Removal:</i>	<b>\$15,115</b>
<b>Removal of Petroleum Impacted Soil (Filling Station Area)</b>			
Soil Excavation/Loading	2,500 tons	\$7 /ton	\$17,500
Soil Transport and Disposal	2,500 tons	\$40 /ton	\$100,000
Provide and Place Backfill	2,500 tons	\$19 /ton	\$47,500
		<i>Removal of Petroleum Impacted Soil:</i>	<b>\$165,000</b>
<b>In-Situ Groundwater Remediation (Filling Station Area)</b>			
In-Situ Reagent	20,000 SF	\$2.50 /SF	\$50,000
Geoprobe & Operator	10 days	\$1,800 /day	\$18,000
Pre and Post Groundwater Sampling	1 LS	\$7,000 /LS	\$7,000
		<i>In-Situ Groundwater Remediation:</i>	<b>\$75,000</b>
<b>Complete Soil/Fill Removal/Disposal</b>			
Soil Excavation/Loading	87,800 tons	\$7 /ton	\$614,600
Soil Transport and Disposal	87,800 tons	\$40 /ton	\$3,512,000
Provide and Place Backfill	87,800 tons	\$19 /ton	\$1,668,200
		<i>Soil/Fill Removal/Disposal:</i>	<b>\$5,794,800</b>
<b>Demolition of Building Complex</b>			
Controlled Demolition & Disposal of Existing Bldg. Complex & Debris	1 SF	\$700,000 /LS	\$700,000
		<i>Building Demolition:</i>	<b>\$700,000</b>
<b>Engineering, Monitoring &amp; Oversight</b>			
Engineering, Monitoring & Oversight per BCP Process	1 SF	\$250,000 /LS	\$250,000
		<i>Engineering and Oversight:</i>	<b>\$250,000</b>
<b>Estimated Total</b>			<b>\$6,999,915</b>

**Notes/Assumptions:**

1. All contaminated soil/fill to be removed from the site for off-site disposal is assumed to be classified as non-hazardous waste for disposal purposes.
2. Assumes only the eastern 8.5 acres of the Site will be redeveloped under the BCP, and that the western portion will remain undeveloped and not require remediation.
3. The volumes of contaminated soil/fill are estimates based on limited data. Additional data is required to fully delineate the extent of contamination.
4. The area of impacted groundwater to be subject to in-situ treatment has been estimated based on limited data.  
Additional data is required to fully delineate the extent of groundwater contamination and the corresponding treatment area.
5. Assumes the building complex will be demolished using controlled demolition methods to address Asbestos Containing Material (ACM)
6. Actual costs will be a function of the remedial actions required by NYSDEC & NYSDOH, which have yet to be defined and may vary significantly from those estimated herein.



**APPENDIX 1:**  
**LABELLA ASSOCIATES PHASE II**  
**ESA**

**DRAFT**



## Phase II Environmental Site Assessment

Location:

Former Emkay Trading Corp. Site  
58 Church Street  
Arcade, New York 14009

Prepared for:

Mr. James Pierce  
WCBC North LLC  
36 Center Street  
Warsaw, New York 14569

LaBella Project No. 2193071

March 4, 2020

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## **1.0 EXECUTIVE SUMMARY**

---

LaBella Associates, D.P.C. (LaBella) was retained by WCBC North, LLC to conduct a Phase II Environmental Site Assessment (ESA) at the property addressed as 58 Church Street, Village of Arcade, Wyoming County, New York, 14009 (Tax IDs: 183.9-1-32.1 and 183.9-1-32.2), hereinafter referred to as the "Site" (see Figure 1). The Site is currently vacant and tax delinquent, encompasses approximately 10.5 acres and is occupied by the remnants of a former dairy processing and manufacturing facility complex that is in an advanced state of deterioration, as well as a former filling station. This assessment was completed to investigate Site conditions for the purpose of determining the likelihood that the Site will be eligible for entry into the New York State Brownfield Cleanup Program (BCP) in connection with future redevelopment efforts.

The scope of this Phase II ESA included:

- Surface soil/fill characterization
- Subsurface soil/fill investigation
- Groundwater investigation
- Underground Storage Tank (UST) investigation

It should be noted that an inventory of containers (i.e., drums, pails, etc.) located on the Site was also programmed for completion during this Phase II ESA, but could not be performed due to the hazards associated with the deteriorated condition of building complex (i.e., structural deficiencies, asbestos, etc.) and winter weather conditions that obscured the ground surface.

The key findings of this Phase II ESA include:

- Friable ACM was documented within demolition debris located on the western portion of the site during a previous study, which also identified friable and non-friable ACM within portions of the remaining structures.
- Fill material of unknown origin was encountered across the Site from below the vegetative cover or concrete to depths up to 7 feet (ft.) below ground surface (bgs).
- Four (4) unregistered USTs ranging in size from 500 to 4,000 gallons were uncovered on the northeastern portion of the Site in the area of a former filling station.
- Field and laboratory data indicated the soil/fill and groundwater in the vicinity of the USTs and former fuel dispensing island is contaminated with petroleum constituents commonly associated with gasoline at concentrations above applicable Standards, Criteria and Guidance levels (SCGs).
- As a result of the petroleum contamination detected in the former filling station area, a spill was reported to NYSDEC and an active spill file (#1908745) was assigned to the Site.
- Contaminants, including arsenic, lead and mercury, were detected in site-wide surface soil/fill samples at concentrations exceeding unrestricted use Soil Cleanup Objectives (SCOs). The level of arsenic detected in surface soil/fill in one area north of the former manufacturing complex also exceeded the restricted residential, commercial and industrial use SCOs.
- Concentrations of arsenic, lead and mercury that exceeded unrestricted and restricted residential SCOs were also detected in subsurface soil/fill collected from multiple test pit locations across the Site.
- Concentrations of multiple PAHs exceeded and/or equaled the unrestricted and restricted residential use SCOs in the subsurface soil/fill sample collected in the area between the former manufacturing complex and Cattaraugus Creek.
- Polychlorinated Biphenyl (PCB) aroclor-1254 was detected in the surface and subsurface soil/fill samples collected at one location to the north of the former manufacturing complex at concentrations exceeding the unrestricted use SCO.

- Based on the results of this assessment, which documented the presence of soil and groundwater contamination on the Site at levels exceeding the applicable SCGs, it appears that the Site would be eligible for entry into the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP). A formal BCP eligibility determination, however, cannot be made without submittal of a complete BCP application to NYSDEC.
- The scope and corresponding cost of further investigation and/or remedial actions at the site cannot be determined without a site-specific review of Site conditions by the NYSDEC within the context of the applicable regulatory programs (i.e., Spills Program, BCP, etc.). However, LaBella has developed a list of general response actions that could reasonably be expected to render the site suitable for restricted residential use and are described herein. The Rough Order of Magnitude (ROM) cost estimate for implementing these actions is \$1.93M. This ROM cost estimate is preliminary in nature and has an accuracy of +/- 50%.

## **2.0 INTRODUCTION**

---

This Phase II ESA has been performed in general conformance with the scope and limitations of ASTM Practice E 1903-11.

### **2.1 Special Terms and Conditions**

The findings of this Phase II ESA are based on the scope of services and project objectives stated in the fully executed agreement between LaBella and WCBC North, LLC for the Phase I/II Environmental Site Assessment of the Former Emkay Trading Site, dated October 16, 2019.

### **2.2 Limitations & Exceptions**

Work associated with this Phase II ESA was performed in accordance with generally accepted environmental engineering and environmental contracting practices for this region. LaBella makes no other warranty or representation, either expressed or implied, nor is one intended to be included as part of its services, proposals, contracts or reports.

In addition, LaBella cannot provide guarantees, certifications or warranties that the property is or is not free of environmental impairment or other regulated solid wastes. The Client shall be aware that the data and representative samples from any given soil sampling point or monitoring well may represent conditions that apply only at that particular location, and such conditions may not necessarily apply to the Site as a whole.

## **3.0 BACKGROUND**

---

### **3.1 Site Description & Features**

The Site consists of two contiguous parcels (Parcel IDs: 183.9-1-32.1 and 183.9-32.2) totaling 10.5 acres of land located south of North road, and west of Church Street in the Village of Arcade, New York (see Figure 2). The Site is currently vacant and tax delinquent, and was previously utilized as a dairy processing and manufacturing plant. The Site contains the remnants of a building complex comprised of multiple structures including: one 51,500 square-foot manufacturing building (Site-Building 1) that was constructed by 1912; one single-story approximately 350 square-foot building (Site Building 2) that was constructed by 1963; one single-story 3,240 square foot barn (Site Building 3) that was constructed by 1912; one single-story approximately 1,500 square foot building (Site Building 4) that was constructed between 1971 and 1981; and one single-story approximately 350 square-floor building (Site Building 5) that was constructed by 1944. Many of the structures have been subjected to selective demolition and salvage operations over the last decade, and are in a substantially deteriorated state.

The western portion of the Site is occupied by the remnants of a wastewater treatment facility constructed circa 1963 in connection with the dairy processing and manufacturing operation. The exterior of the Site consists of overgrown grassy and wooded areas, areas of demolition debris, as well as gravel and asphalt-paved driveway and parking areas.

### **3.2 Physical Setting**

The Site is located in a primarily residential section of the Village of Arcade and is bordered by Cattaraugus Creek, which separates the Site from the central business corridor. Surrounding properties are used for residential, educational and civic purposes. Undeveloped land also occurs along the Cattaraugus Creek corridor in the vicinity of the Site.

### **3.3 Site History and Land Use**

Based on historical records reviewed, the Site was developed by at least 1866 for apparent residential use. The Site was developed with a portion of the current Site Buildings between 1902 and 1912, and was used as a dairy processing and manufacturing facility from at least 1912 to approximately 10 years ago. Operations on the Site have historically included machine shops, a paint shop, tin shop, blacksmith, and copper shop. A gasoline filling station with USTs was present on the northeast portion of the Site in at least 1944. An oil house was depicted on the southwest portion of the Site in 1944, and a wastewater treatment facility has been located on the western portion of the Site from at least 1963. Railroad spurs have been located on the south portion of the Site since at least 1912. Properties adjacent to the Site have historically been used for manufacturing, educational, or residential purposes.

### **3.4 Adjacent Property Use**

The Site is bordered by the following Properties.

Direction	Land Use
North	Residential (291-356 North Street)
East	Residential (53-63 Church Street)
South	Cattaraugus Creek and Pioneer Central School (Elementary) (315 Main Street)
West	Undeveloped Land

### **3.5 Summary of Previous Studies**

Previous environmental reports reviewed by LaBella in connection with this assignment include:

- Environmental Site Assessment Report, Vacant Dairy Processing Facility (Emkay Trading Corp.), 58 Church Street, Arcade, NY, prepared by Lender Consulting Services Inc. (LCS) dated April 23, 2008
- Limited Pre-Demolition Asbestos-Containing Materials (ACM) Inspection for the Former Emkay Trading Corporation Barn and Tank Building, 58 Church Street, Arcade, NY, prepared by LaBella Associates dated August 2019
- Phase I Environmental Site Assessment Report for 58 Church Street, Arcade, NY prepared by LaBella Associates dated November 2019

The following is a summary of the information obtained from the aforementioned reports:

### **3.5.1 2008 Environmental Site Assessment Report**

The 2008 Environmental Site Assessment Report identified the following Recognized Environmental Conditions (RECs) in connection with the Site:

- The Site was historically used for the manufacturing of dairy products beginning in at least 1912 and included machine shops, blacksmith, paint shop, copper shop and tin shop.
- A filling station and three gasoline tanks were located on the northeast portion of the property in at least 1944.
- Four suspect vent pipes were noted on a building on the northeast portion of the property.
- Many 55-gallon drums were stored at the Site, including some covered in a tar-like substance, some empty drums, and some filled but unlabeled drums.
- Petroleum-like staining was observed near tractor trailers on the west portion of the Site, and approximately 30 square feet of stressed vegetation was observed in this area.
- Approximately 15,000-gallon AST was noted on the east side of Site Building 1.
- A large concrete pad with metal plates was noted to the south of Site Building 1.
- A concrete and brick lined tunnel was noted to the north of Site Building 1.
- A railroad spur was noted on the southern portion of the Site since at least 1912.

Additionally, the report identified Historical Recognized Environmental Conditions (HRECs) in connection with closed or inactive spills at the Site, as well as one closed spill on the east adjacent property. De Minimis conditions were also identified in the form of general debris scattered throughout the Site; tires; furnaces; a generator; a sealed concrete access way located to the south of Site Building 1; transformers; peeling paint; and elevated radon concentrations in the area.

### **3.5.2 Limited Pre-Demolition Asbestos-Containing Materials (ACM) Inspection Report**

Wyoming County contracted with LaBella to perform a limited survey of suspect Asbestos Containing Materials (ACM) on a portion of the abandoned building complex at the Site. The survey focused on the demolition debris present on the western portion of the site; the remnants and debris associated with the partially razed building referred to as the Barn (Building 3); and the western portion of the tank building (Building 1).

LaBella's field inspection identified numerous suspect ACMs comingled within the demolition debris located on the western portion of the site. Additionally, numerous suspect ACMs were identified in the Barn and Tank Building that had not been previously identified or analyzed in the previous reports. Laboratory analysis of samples of the suspect ACMs identified by LaBella confirmed that: (1) uncontrolled friable and non-friable ACM is present within demolition debris on the western portion of the site; (2) friable and non-friable ACM in the form of window glazing, pipe insulation, felt paper debris and roofing material is present within the remnants of the Barn structure; and (3) numerous friable and nonfriable ACMs including readily visible Galbestos and Transite siding are present in the Tank Building.

The report indicated that demolition debris piles were located throughout the areas inspected, and that ACM is comingled within the demolition debris. Therefore, it was stated that all debris piles should be considered asbestos containing and handled appropriately.

Furthermore, the report indicated that the building envelopes of multiple structures on the Site are failing, with significant structural deficiencies observed. Consequently, certain areas of the buildings were excluded from inspection or could not be fully inspected due to building envelope and structural deficiencies.

### **3.5.3 2019 Phase I Environmental Site Assessment Report**

LaBella completed a Phase I Environmental Site Assessment (ESA) of the Site on behalf of WCBC North, LLC prior to undertaking the current Phase II ESA. The Phase I ESA identified the following RECs in connection with the Site:

- The Site has been used as a dairy processing and manufacturing facility since at least 1912 and Site operations included machine shops, a blacksmith, paint shop, tin shop, and cooper shop;
- A gasoline filling station, including three gasoline tanks, was present on the northeast corner of the Site in at least 1944;
- At the time of the Site visit, suspect vent pipes were observed on the building situated on the northeast corner of the Site (Building 5);
- An oil house was present on the southwest portion of the site in at least 1944;
- Multiple 55-gallon drums were observed throughout the Site at the time of the site visit. Some drums were observed to be empty, some were filled but unlabeled, and several were covered with a thick black substance;
- Railroad spurs have been present on the southern portion of the Site since at least 1912;
- A wastewater treatment plant has been present on the west portion of the Site since at least 1963;
- Several areas of stained soil and gravel were observed to the north of Building 1 at the time of the site visit; and
- The presence of friable asbestos was documented within remaining building structures and demolition debris on the Site.

The following HRECs were also identified in association with the Site:

- Four closed NYSDEC spills (8910143, 9108045, 9401018, and 0275118) were identified for the Site in relation to releases of dairy products to Cattaraugus Creek or the municipal sewer system.
- One NYSDEC spill (#9205374) involved the discharge of sodium hydroxide, nitric acid, and propylene glycol into a clarifier on the Site; the chemicals may have discharged directly from the clarifier to Cattaraugus Creek. Samples were collected, however no analysis was ever completed, and the NYSDEC Spills Division assigned the spill a closed status due to lack of involvement.

Lastly, the Phase I ESA identified the following de Minimis condition relative to the Site:

- Debris including scrap metal, concrete, bricks, construction equipment, cardboard, and wood were observed throughout the Site at the time of the site visit.

## **4.0 OBJECTIVES**

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WCBC North, LLC, in collaboration with the Wyoming County Business Center (WCBC), Wyoming County and the Village of Arcade, seeks to stimulate the cleanup and redevelopment of this tax delinquent Site, which has been complicated by environmental concerns related to known and suspected contamination, as well as by the dilapidated condition of the remaining structures. The liability protections and tax credits available through the New York State Brownfield Cleanup Program (BCP) could be important factors in addressing these concerns and attracting private sector developer interest in redeveloping the Site. Consequently, the primary objectives of this Phase II ESA were to generate sufficient information concerning soil and groundwater conditions on the Site to determine the likelihood that it would be eligible for acceptance into the BCP, and to support a BCP application in the future. Additionally, the information generated is intended to aid in determining available cleanup options and order of magnitude Site preparation and cleanup costs, which are important considerations relative to formulating a redevelopment strategy.

## **5.0 SCOPE OF WORK**

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The following scope of services was conducted:

### **5.1 Field Investigation**

#### Utility Clearance

Prior to the initiation of subsurface work, an underground utility stake-out, via *Dig Safely New York*, was completed at the Site to locate utilities in the areas where the subsurface assessment would take place.

#### Soil Field Screening Techniques

All subsurface investigatory locations were continuously assessed in the field for visible impairment, olfactory indications of impairment, and for Total Organic Vapors (TOVs) using a photoionization detector (PID). Positive indications from any of these screening methods are collectively referred to as “evidence of impairment.” Evidence of impairment that is gathered at the time of the fieldwork is used with observed hydrogeologic conditions to assist in determining the location and depth for sample collection.

#### Laboratory

Chemical analysis of soil and groundwater samples was performed by Eurofins TestAmerica, Buffalo, a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified laboratory. Quality Assurance/Quality Control (QA/QC) measures included the collection and analysis of trip blank and matrix spike/matrix spike duplicate (MS/MSD) samples. The laboratory also conducted method-specific QA/QC.

#### **5.1.1 Surface Soil/Fill Sampling & Analysis**

LaBella collected three surface soil samples (Test Pit 9 Surface, Church Street Bay Area, and UST Parking Area) on December 5, 2019, from the north and eastern portions of the site at locations that are not covered by impervious surfaces (i.e., asphalt, concrete, etc.) to characterize the materials currently exposed at the surface of the site. A track-mounted excavator was utilized to scrap off the top vegetative layer to facilitate the collection of the soil samples from within six inches of the ground surface. These samples were submitted for chemical analysis under proper chain-of-custody procedures as follows:

- Semi-Volatile Organic Compounds (SVOCs) appearing on the USEPA Target Compound List (TCL) via USEPA Method 8270
- Polychlorinated Biphenyls (PCBs) via USEPA Test Method 8082
- Resource Conservation and Recovery Act (RCRA) Metals via USEPA Methods

The locations of the three surface soil samples were measured relative to fixed site features and are depicted on Figure 3.

#### **5.1.2 UST Investigation**

LaBella investigated the suspected presence of USTs on the northeastern corner of the Site through the excavation of a series of exploratory test trenches in the vicinity of the former filling station (Building 5). An excavator was used to uncover the tops of the four USTs encountered for the purpose of determining their dimensions, construction and general condition. Once uncovered, LaBella determined the approximate volume of liquid and/or sludge within the discovered USTs. Additionally, test pits were excavated around the perimeter of the USTs and in the vicinity of piping and former dispensers to investigate potential subsurface impacts from petroleum products. The test pits were advanced to an average depth of approximately 10 feet bgs. Material removed from the test pits was field screened via the techniques summarized above.

Logs describing the overburden stratigraphy, field measurements, and other pertinent observations associated with the test pits were recorded (see Appendix 1), and the test pit locations were measured relative to fixed site features.

LaBella collected four soil/fill samples from the locations proximate the USTs and former dispenser island and submitted them under standard chain-of-custody procedures for laboratory analyses for the following.

- NYSDEC CP-51 VOCs via USEPA Method 8260
- NYSDEC CP-51 SVOCs via USEPA Method 8270
- RCRA Metals via USEPA Methods

Soil/fill material excavated from each test pit was returned to the excavation from which it originated and was compacted using the excavator bucket.

### *5.1.3 Test Pit Investigation (Site-Wide Subsurface Soil/Fill Characterization)*

LaBella implemented a test pit program that involved the excavation of ten test pits to characterize subsurface stratigraphy, identify and delineate the extent of fill materials, and facilitate the collection, screening and chemical analysis of soil and fill samples. The test pit locations are shown on Figure 3 and were selected to investigate areas of potential concern identified in the Phase I ESA completed by LaBella, as well as to generally characterize soil/fill conditions across the Site. It should be noted, however, that no test pits were completed in areas of the site containing ACM demolition debris for health and safety reasons. The test pits were advanced using an excavator to an average depth of approximately 10 feet bgs. Material removed from the test pits was field screened via the techniques summarized above.

LaBella supervised and documented the test pit program, and prepared logs describing the overburden stratigraphy, field measurements, and other pertinent observations (see Appendix 1). The test pit locations were measured relative to fixed site features. LaBella submitted six subsurface soil/fill samples collected from the test pits under standard chain-of-custody procedures for laboratory analyses for the following.

- Volatile Organic Compounds (VOCs) appearing on the USEPA TCL via USEPA Method 8260
- SVOCs appearing on the USEPA TCL via USEPA Method 8270
- PCBs via USEPA Test Method 8082
- RCRA Metals via USEPA Methods

Soil/fill material excavated from each test pit was returned to the excavation from which it originated and was compacted using the excavator bucket.

### *5.1.4 Groundwater Characterization*

LaBella completed the installation, purging and sampling of three groundwater monitoring wells (MW-1 through MW-3) to investigate groundwater conditions at the Site. The groundwater monitoring well locations are depicted on Figure 3 and were selected to assess the subsurface conditions proximate specific areas of concern identified during previous tasks (i.e., USTs, areas of soil impact, etc.). The following activities were completed in connection with the groundwater characterization program:

- LaBella mobilized a rotary drill rig and crew to the Site to implement the drilling program;
- The drilling equipment was decontaminated prior to use via high pressure sprayer and/or an Alconox wash, followed by a potable water rinse, depending on the equipment being used. Between each soil sample and soil boring, decontamination procedures were repeated;
- Continuous split-spoon sampling was conducted throughout the total depth of each boring;
- LaBella field screen the soil samples via the field screening techniques described above;
- LaBella supervised and documented the soil boring program, and prepared logs describing the overburden stratigraphy (see Appendix 1);

- LaBella measured the well locations relative to existing Site features;
- Overburden wells were installed to an average depth of 21 feet below grade. Each well was completed with 10 feet of two-inch, Schedule 40 0.010-slot well screen connected to an appropriate length of schedule 40 PVC well riser to complete the well. The borehole annulus surrounding the well screen was filled with quartz sand to one to two feet above the screen section. The remaining annulus was sealed with bentonite to approximately one to two feet bgs, and then grouted to ground surface. Each well was finished with a lockable steel protective casing (monitoring well installation diagrams are in Appendix 1);
- LaBella personnel developed the wells by removing three to five well volumes from each well using dedicated bailers;
- Representative groundwater samples were obtained from the wells using low-flow techniques and submitted for the following laboratory analysis:
- Volatile Organic Compounds (VOCs) appearing on the USEPA TCL via USEPA Method 8260
- SVOCs appearing on the USEPA TCL via USEPA Method 8270
- PCBs via USEPA Test Method 8082
- RCRA Metals via USEPA Methods
- Well purging and groundwater sampling logs that describe pertinent field information are presented in Appendix 1.

#### *5.1.5 Container Inventory*

Unsafe conditions stemming from the hazards associated with the dilapidated condition of the Site buildings, and the presence of friable ACM and snow cover prevented LaBella from conducting an inventory of containers on the Site.

#### *5.1.6 Quality Assurance, Quality Control, and Data Validation*

The laboratory data was reported in a Category B deliverables package to facilitate validation of the data, and a third party validator reviewed the laboratory data and prepared a Data Usability Summary Report (DUSR). The validator evaluated the analytical results for the field samples and quality assurance/quality control samples and compared the findings to USEPA guidance to determine the accuracy and validity of the results. The quality assurance/quality control samples collected are summarized below.

##### Soil QA/QC

- one trip blank for VOCs
- one MS/MSD sample for VOCs, SVOCs, and metals

##### Groundwater QA/QC

- one trip blank for VOCs
- one MS/MSD sample for VOCs, SVOCs, and metals

## **6.0 SITE GEOLOGY AND HYDROGEOLOGY**

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The subsurface conditions at the Site were evaluated based on fourteen test pits and three monitoring wells installed during the course of this Phase II ESA. In general, similar subsurface conditions were encountered within the test pit and soil boring locations. Fill material was encountered across the Site from below the vegetative cover or asphalt to depths ranging from 2 to 7 ft bgs. Fill material generally consisted of dark brown to gray fine and coarse sand with gravel, brick, coal and concrete throughout a majority of the Site. A 1 to 2 ft thick coal-like substance was observed at a depth of 2 to 4 ft bgs within the test pits excavated along the northern, western and southern perimeters of Building 1. Intermingled brown

clayey silt was observed in a few locations. Underlying indigenous soils across the Site generally consist of brown to gray-brown alluvial deposits consisting of a mixture of silt, sand and gravel. Bedrock was not encountered within the test pits or borings completed at the Site.

No significant groundwater or saturated conditions were observed during the advancement of the test pits. However, groundwater was encountered during the advancement of test borings that were completed with the three monitoring wells. Static water level measurements taken prior to the sampling of each well indicated groundwater depths of 13.08 ft bgs (MW-1), 4.9 ft bgs (MW-2), and 6.07 ft bgs (MW-3). Based on the static water levels in the monitoring wells, groundwater flow direction is to the south toward the discharge area represented by Cattaraugus Creek.

## 7.0 FIELD OBSERVATIONS AND SCREENING RESULTS

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### 7.1 Surface and Subsurface Soil/Fill

#### 7.1.1 Surface Soil/Fill Sampling

No photo-ionic, visual or olfactory evidence of impairment was observed at any of the three surface sample locations. It should be noted that snow cover existed at the time of sample collection and limited visual observations of the ground surface at each location.

#### 7.1.2 UST Investigation

The field investigation uncovered four USTs in the area to the east of the former filling station (Building 5). The location and configuration of the USTs is shown on Figure 4. The tops and southern ends of all four USTs were uncovered to enable measurements of these tanks, all of which appeared to be of single-wall steel construction. Petroleum odors, staining and elevated PID readings were noted in the soil/fill immediately surrounding the USTs. As a result, LaBella contacted the NYSDEC Spill Hotline to report the contamination and Spill #1908745 was assigned to the Site.

Based on the tank measurements taken, the approximate volumes of the USTs are as follows:

- UST #1: 1,000 gal
- UST #2: 1,000 gal
- UST #3: 500 gal
- UST #4: 4,000 gal

All four of the USTs appeared to be filled to capacity with fluids that resembled a mixture of water and petroleum product. LaBella could not determine the presence or absence of sludge in the tanks using the measurement method applied in the field.

Subsequent to uncovering the USTs, four test pits were excavated in the vicinity of the former filling station to assess subsurface conditions in areas presumed to be down-gradient of the UST field, underground piping and former dispenser island. Fill material consisting of a heterogeneous mixture of dark-brown to gray silty sand with well round gravel was encountered in these test pits from depths ranging from 2 to 10 ft bgs, and may represents re-worked native overburden. Petroleum-type odors, staining and elevated PID readings were observed at all four test pit locations. As shown in the table below, the highest PID levels were observed directly south of the UST field extending to the terminal depth of Test Pit 1. Elevated TOV levels were also observed in the vicinity, and down-gradient of the former dispenser island.

#### **Underground Storage Tank Area Test Pit PID Readings**

Test Pit ID	0-2'	2-4'	4-6'	6-8'	8-10'	10-12'
Test Pit 1	600	1,300	600	600	300	300
Test Pit 2	230	600	600	600	287	87
Test Pit 3	180	385	300	220	200	-
Test Pit 4	100	115	135	260	220	0

Notes:

1. All PID readings were collected utilizing a Minirae 3,000 PID and are expressed in parts per million (ppm).
2. The PID screening is performed as a method of determining general presence or absence of VOCs in soil, and to provide a basis for selecting samples for laboratory analysis. The readings obtained provide only an indication of the relative levels of VOC present in the soil, and are not considered to be a direct quantization of actual soil VOC concentration.
3. - Denotes excavation did not extend to that depth.

#### **7.1.3 Test Pit Investigation**

In addition to the four test pits advanced in the area of the former filling station, 10 test pits were excavated across the Site around the perimeter of the former manufacturing facility. Fill material was observed in a majority of the test pits from the ground surface to a maximum depth of 6 ft bgs. The fill material observed in the test pits was composed of a mixture of concrete building debris, miscellaneous anthropogenic materials, and a coal-like substance intermingled with silt, sand and gravel. The origin of this fill material is unknown. Field evidence of impairment including petroleum-like odor, staining and elevated PID readings was observed in Test Pit 3. Levels of TOVs measured in the soil/fill removed from Test Pit 3 ranged from 30-1,300 parts per million (PPM), with the peak measurements recorded from 2-4 ft bgs and elevated readings observed throughout the total depth of the test pit. No field evidence of impairment was noted in the other test pits.

#### **7.2 Groundwater**

Three overburden groundwater monitoring wells designated as MW-1, MW-2, and MW-3 were installed at the Site to investigate groundwater conditions in select areas in which impacted soil was encountered. The wells were installed within the alluvial deposits at an average depth of approximately 21 ft bgs. Static water levels within the wells were measured at 13.08 ft bgs (MW-1), 4.9 ft bgs (MW-2), and 6.07 ft bgs (MW-3) prior to the collection of groundwater samples. No visual or olfactory evidence of contamination was noted in the groundwater removed from these wells during the development/purging process, which involved the removal of five well volumes from each well prior to sample collection. Elevated turbidity levels were encountered in all of the wells during purging and sampling.

Monitoring well locations are shown on Figure 3, while the well purging and sampling field logs are included in Appendix 1.

## **8.0 ANALYTICAL RESULTS**

The following sections summarize and discuss the analytical results generated during this investigation. Surface soil/fill, subsurface soil/fill and groundwater samples were collected for chemical analysis to determine the presence or absence of contaminant levels exceeding applicable regulatory Standards, Criteria and Guidance levels (SCGs).

For discussion purposes, these data are compared with the SCGs applicable to each medium sampled, including:

- Soil/Fill: NYSDEC Part 375 Soil Cleanup Objectives (SCOs)
- Soil/Fill: NYSDEC CP-51 Soil Cleanup Guidance Levels (SCGs)
- Groundwater: NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards (AWQS)

The analytical laboratory reports are included in Appendix 2. These data were validated in accordance with NYSDEC guidelines and were qualified, where appropriate, based on the data usability evaluation. Qualifier codes were used to indicate the qualitative and quantitative reliability of the data. All analytical laboratory data were found to be valid and usable with the qualifications noted in the DUSRs (see Section 8.4). A series of summary tables (Tables 1-4) presenting the data with the final validation qualifiers and comparing the results to the applicable SCGs has been integrated into the discussion of the data in the following subsections.

## **8.1     *Surface Soil/Fill***

As reflected by Table 1, low concentrations of SVOCs categorized as Polycyclic Aromatic Hydrocarbons (PAHs) were detected in two of the three surface soil samples, but the concentrations of these compounds were below Part 375 SCOs for unrestricted use. However, one PCB aroclor (PCB-1254) was also detected in the sample collected from north of Building 3 at a concentration that exceeded the unrestricted use SCO and approached the SCO for restricted residential use. The concentrations of arsenic, lead and mercury in this sample also exceeded the unrestricted use SCOs, with the arsenic level in this sample also eclipsing the SCOs for restricted residential, commercial and industrial use. With the exception of arsenic in the sample collected to the west of the UST area and lead in the sample obtained to the east of Building 1, both of which were detected at a concentration that exceeded the unrestricted use SCOs, no other contraventions of the SCOs were identified.

## **8.2     *Subsurface Soil***

### **8.2.1    *UST Area Subsurface Soil/Fill***

As reflected by Table 2, VOCs commonly associated with gasoline were detected in all four subsurface soil/fill samples collected from the test pits completed in the vicinity of the former filling station. Concentrations of a handful of these contaminants, primarily Benzene, Toluene, Ethylbenzene and Xylene, collectively referred to as BTEX compounds, exceeded the CP-51 SCGs in three of the test pits completed proximate the UST field and former dispenser island. The highest frequency and concentration of VOC detections was found in UST Test Pit 2, situated between the UST field and former dispenser island.

One or more SVOCs were detected in all four subsurface soil/fill samples from this area of the Site; however, the concentrations of all of the detected compounds were below the CP-51 SCGs.

With the exception of arsenic in UST Test Pit 1, which was detected at a concentration that exceeded the unrestricted use SCOs and equaled the restricted residential use SCO, metals levels detected in all four subsurface soil/fill samples collected from the former filling station area were below the unrestricted use SCOs.

### **8.2.2 Site-Wide Subsurface Soil/Fill**

Table 3 shows that low concentrations of a handful of VOCs were detected in the subsurface samples collected from the test pits advanced at locations around the perimeter of the former manufacturing facility. However, the concentrations of all VOCs detected were below the unrestricted use SCOs.

Numerous SVOCs, primarily consisting of PAHs, were detected in five of the six subsurface soil/fill samples, but contraventions of the SCOs were only detected in Test Pit 5. The concentrations of SVOCs in the remaining samples were below the unrestricted use SCOs. Two PAHs (benzo[a] anthracene and benzo[b]fluoranthene) were detected in the sample from Test Pit 5 at concentrations exceeding both the unrestricted and restricted residential SCOs, and one PAH (indeno[1,2,3-cd]pyrene) was detected in this sample at a concentration equaling said SCOs. Additionally, a fourth PAH (chrysene) was detected in this sample at a concentration that exceeded the unrestricted use SCO.

One PCB aroclor (PCB-1254) was also detected in the sample collected from Test Pit 9 at a concentration that exceeded the unrestricted use SCO. No other detections of PCBs occurred in the subsurface soil/fill samples submitted for laboratory analysis.

Arsenic concentrations in three (Test Pits 3, 5 and 9) of the six samples exceeded the unrestricted, restricted residential, commercial and industrial use SCOs. Lead levels in three (Test Pits 1, 5 and 9) of the six samples also exceeded the unrestricted SCO. The highest concentration of lead detected in these samples was 2,340 parts per million (PPM) in Test Pit 5, which also exceeded the restricted residential and commercial SCOs. Lastly, mercury concentrations in all but one sample exceeded the unrestricted use SCO, but were below the restricted residential SCO.

### **8.3 Groundwater**

As reflected in Table 4, BTEX compounds were detected in the groundwater sample collected from MW-3 at concentrations exceeding the Ambient Water Quality Standards (AWQS). This well is located down-gradient from the UST field and former dispenser island. Low concentrations of several other VOCs were also detected in MW-2, but no exceedances of the AWQS were noted in this sample.

Two SVOCs (2-methylnaphthalene and naphthalene) were also detected in MW-3 at levels exceeding the AWQS. Additionally, caprolactam, an organic substance primarily associated with the production of nylon fibers and resins, was detected in the samples from all three monitoring wells. No AWQS has been promulgated for this compound.

Concentrations of arsenic, barium chromium, lead and mercury were detected in one or more monitoring well samples at levels exceeding the AWQS. These detections, however, may be the reflective of the elevated turbidity of the samples and not the presence of dissolved metals in the groundwater.

### **8.4 Data Usability Summary Report**

Third-party data validation of the laboratory analytical results is currently being completed by Vali-Data of WNY, LLC. The findings of the third party data validation were not available as of the date of this report, but will be issued in a Data Usability Summary Report (DUSR) to be included in the Final Phase II ESA Report.

## 9.0 CONCLUSIONS

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Based on the results of this assessment, the following conclusions have been developed:

- Fill material was encountered across the Site from below the vegetative cover or asphalt to depths ranging from 2 to 7 ft bgs. Fill material generally consisted of dark brown to gray fine and coarse sand with gravel, brick, coal and concrete throughout a majority of the Site. A 1-2 ft thick coal-like substance was observed at a depth of 2 to 4 ft bgs within the test pits excavated along the northern, western and southern perimeters of the former manufacturing building.
- Native overburden at the Site primarily consists of brown to gray-brown alluvial deposits consisting of a mixture of silt, sand and gravel. Bedrock was not encountered within the test pits or borings completed at the site.
- Static water levels measured in monitoring wells installed at the site ranged from 4.9-13.08 ft. bgs and groundwater flow appears to be in a southerly direction toward the discharge area represented by Cattaraugus Creek.
- Due to unsafe building and weather conditions, an inventory of containers present within the building complex was not completed as planned. However, observations made during several previous Site visits indicate that numerous containers (i.e., drums, pails, etc.) exist throughout the complex and are likely to contain a variety of chemicals and/or petroleum products.
- Friable ACM was documented within demolition debris located on the western portion of the site during a previous study, which also identified friable and non-friable ACM within portions of the remaining structures.
- Four USTs, all of which appeared to be of single-wall steel construction, were uncovered in the area to the east of the former filling station (Building 5). These tanks include one 500 gallon, two 1,000 gallon, and one 4,000 gallon tanks. Petroleum odors, staining and elevated PID measurements were noted in the soil/fill immediately surrounding the USTs.
- Based on field and laboratory data, subsurface petroleum contamination of soil/fill and groundwater exists on the northeastern portion of the site in the vicinity of the USTs and former dispenser island associated with the former filling station. Concentrations of BTEX compounds were detected in soil/fill and groundwater at levels exceeding CP-51 SCGs and AWQS, respectively.
- Contaminants, including arsenic, lead and mercury, were detected in surface soil/fill samples at concentrations exceeding unrestricted use SCOs. The level of arsenic detected in surface soil/fill in one area north of Building 3 also exceeded the restricted residential, commercial and industrial use SCOs.
- Concentrations of arsenic, lead and mercury that exceeded unrestricted and restricted residential SCOs were also detected in subsurface soil/fill collected from multiple test pit locations across the site.
- Concentrations of multiple PAHs exceeded and/or equaled the unrestricted and restricted residential use SCOs in the subsurface soil/fill sample collected from Test Pit 5, located between Building 1 and Cattaraugus Creek.
- PCB aroclor-1254 was detected in the surface and subsurface soil/fill samples collected at Test Pit 9 at concentrations exceeding the unrestricted use SCO.
- Based on the results of this assessment, which documented the presence of soil and groundwater contamination on the Site at levels exceeding the applicable SCGs, it appears that the Site would be eligible for entry into the NYSDEC Brownfield Cleanup Program (BCP). A formal BCP eligibility determination, however, cannot be made without submittal of a complete BCP application to NYSDEC.

## 10.0 REMEDIAL CONSIDERATIONS

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As a result of the discovery of four unregistered USTs on the northeastern portion of the Site and the presence of petroleum impacts in the area surrounding the tanks and related fuel system components, an active NYSDEC Spill file (#1908745) is currently associated with the Site. Consequently, it is anticipated that the NYSDEC will require the permanent closure/removal of the four USTs and remediation of petroleum contamination detected in the soil/fill and groundwater. The specific requirements for further investigation and/or remediation associated with this spill file cannot be ascertained without a Site-specific review of the results of this assessment by the NYSDEC. However, LaBella anticipates that the following general remedial actions will be necessary to achieve inactivation or closure of the spill file:

- Proper decommissioning and removal of the four USTs;
- Excavation and off-site disposal of soil/fill that is grossly impacted with petroleum; and
- In-situ treatment of petroleum-contaminated groundwater.

In addition to the above-listed “compulsory” actions, it is anticipated that redevelopment of the Site under the BCP will require the implementation of some combination of remedial actions, institutional controls and engineering controls that will render the Site suitable for re-use. The scope and extent of these actions and controls will be determined through the BCP process and ultimately will require approval by the NYSDEC and New York State Department of Health (NYSDOH). While it is not possible to forecast precisely what will be required by these state agencies at this time, LaBella has developed the following general response actions that can reasonably be expected to be supportive of re-use of the Site for restricted residential purposes. This end use was selected based upon the preference communicated by the stake holders, and serves as a conservative approach given that commercial use requirements are less intensive.

- Remedial investigation & alternatives analysis;
- Controlled demolition and disposal of existing building complex and debris;
- Limited excavation, removal and off-site disposal of contaminant “hot spots” in soil/fill;
- Placement of 2 feet of clean cover soil over a demarcation layer in areas of the Site that are not covered with impermeable surfaces (i.e., paved parking lots and roadways, concrete building slabs, etc.);
- Recording of an Environmental Easement on the Site;
- Implementation of a Site Management Plan; and
- Satisfy other BCP requirements (i.e., Remedial Construction Monitoring & Oversight, Final Engineering Report, etc.).

In order to support the redevelopment planning process, a Rough Order of Magnitude (ROM) estimate of the remedial costs for the theoretical remedial program outlined above has been generated by LaBella and is provided in Appendix 4. It should be noted that this ROM estimate is preliminary in nature and has an accuracy of +/- 50%. Actual costs will be a function of the specific scope of the remedial actions required by the NYSDEC and NYSDOH, which have yet to be defined, and may vary significantly from those estimated herein.

Report Reviewed By:

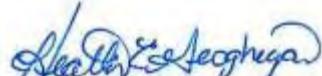


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Robert Napieralski, CPG  
Project Manager

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Report Prepared By:



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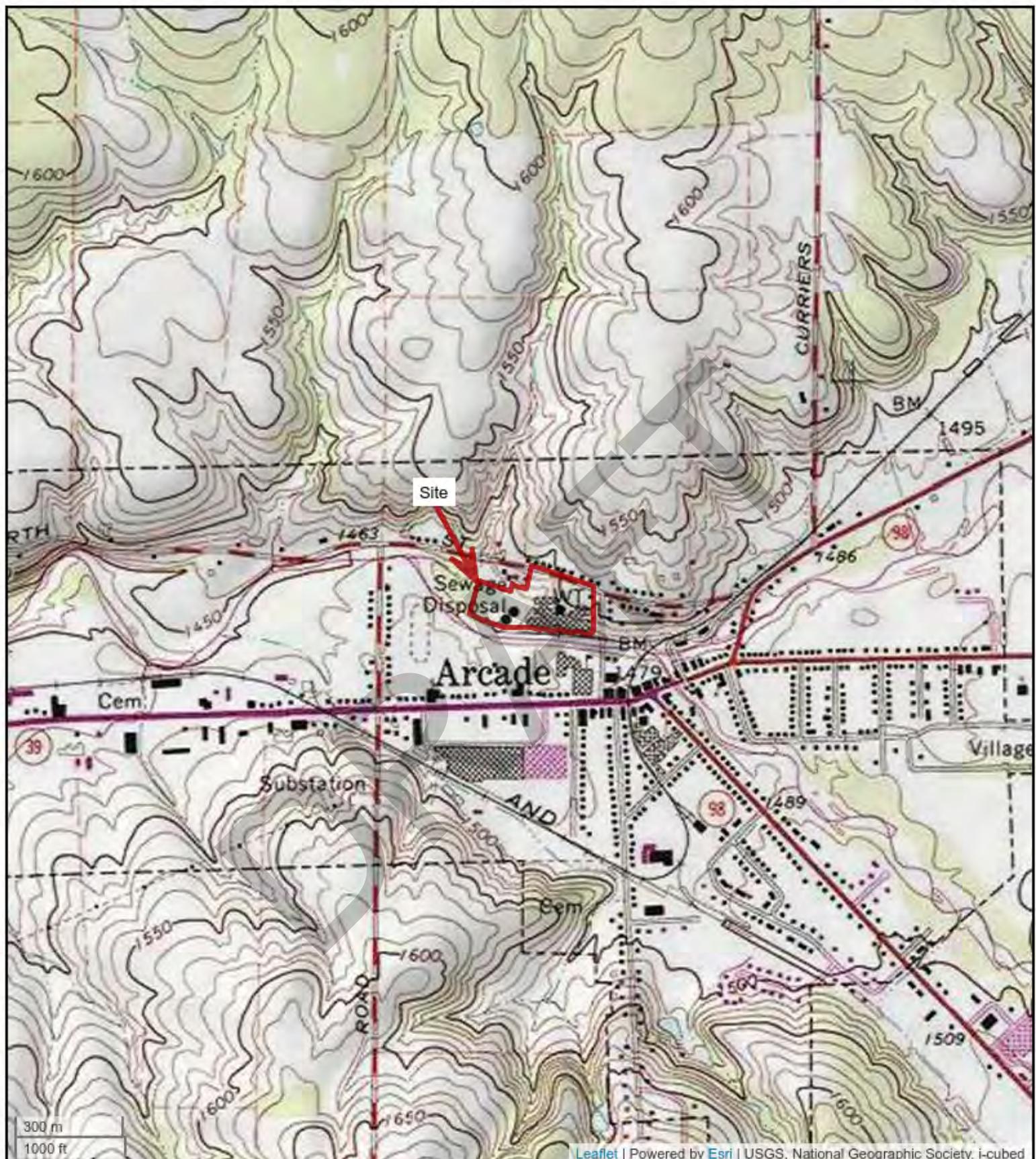
Heather Geoghegan  
Geologist  
ICHMM; Environmental Professional

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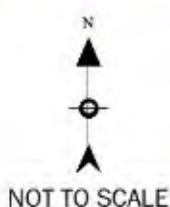
DRAFT

FIGURES



Leaflet | Powered by Esri | USGS, National Geographic Society, i-cubed

Figure 1 Site Location Map



58 Church Street  
Arcade, New York 14009  
Project No. 2193071

 LaBella  
Powered by i-cubed

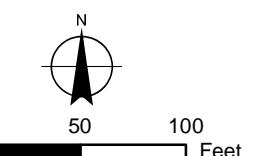


**LaBella**  
Powered by partnership.

**Phase II Environmental  
Site Assessment**  
58 Church Street  
Arcade, NY 14009

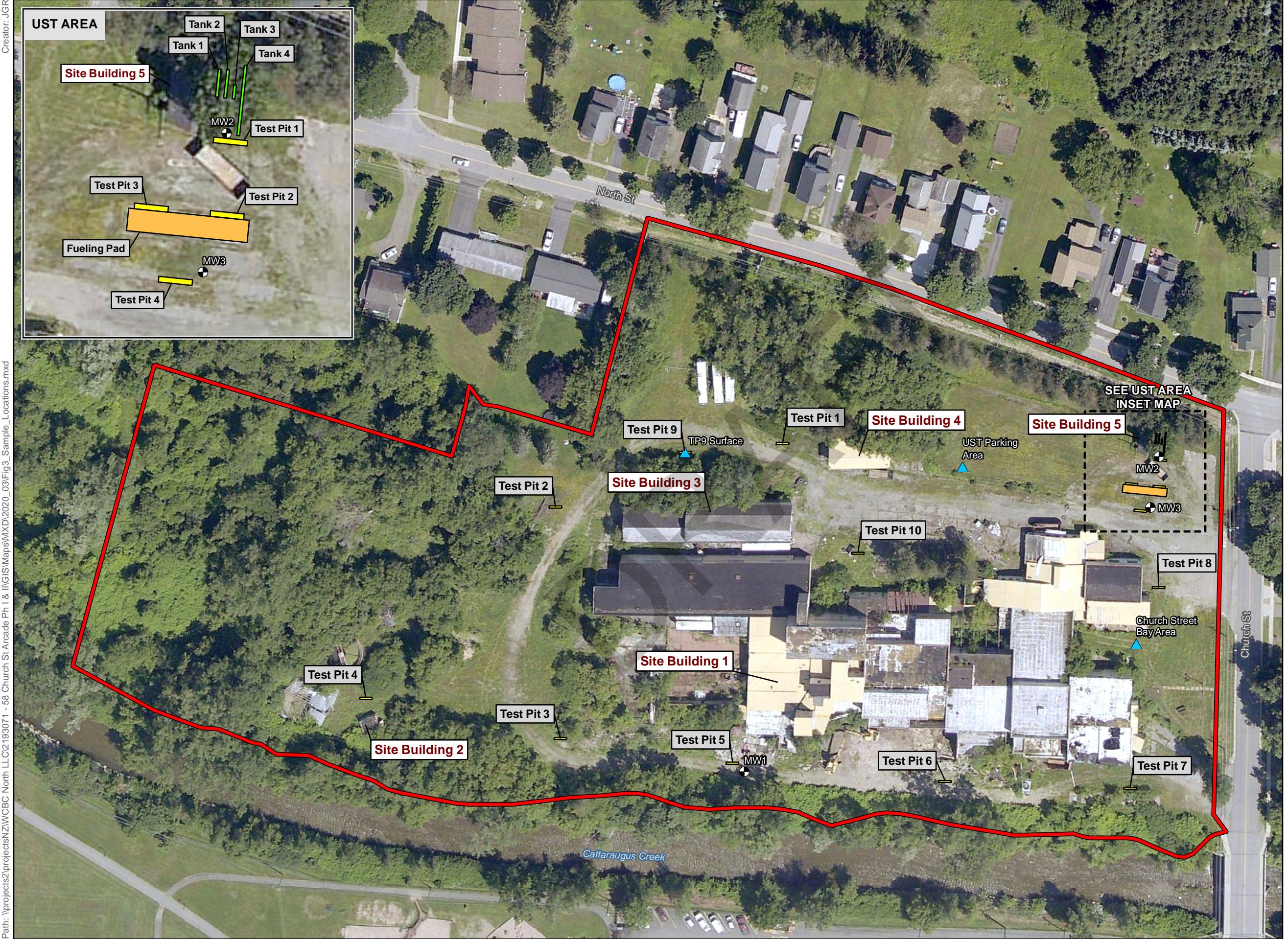
**Legend**

Site Boundary (Approximate)



**Figure 2**  
**General Site  
Plan**

LaBella Project No: 2193071  
Date: 3/3/2020



## Phase II Environmental Site Assessment

58 Church Street  
Arcade, NY 14009

### Legend

- Groundwater Monitoring Well
- ▲ Surface Grab Sample
- Fueling Pad
- ▬ Tank
- ▬ Test Pit
- ▬ Site Boundary (Approximate)



0 50 100 Feet



**Figure 3**  
**Sample Location Map**

LaBella Project No: 2193071  
Date: 3/3/2020



PROJECT #/DRAWING #/DATE:

2193071

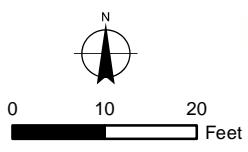
Figure 4

3/3/2020

DRAWING NAME:

Underground Storage  
Tank Location Map

PROJECT:

Phase II Environmental  
Site Assessment  
58 Church Street  
Arcade, NY 14009**LaBella**  
Powered by partnership.



DRAFT

TABLES

**Phase II Environmental Site Assessment**  
**Emkay Trading Site, 58 Church Street, Arcade, New York**

**Table 1**  
**Summary of Surface Soil/Fill Analytical Results**  
**(Detected Compounds Only)**

Sample Location	Test Pit 9	Church Str. Bay Area	UST Parking Area	Part 375 Soil Cleanup Objectives (SCOs)			
Sample ID	TP9 Surface	Church Str. Bay Area	UST Parking Area	Unrestricted	Restricted Residential	Commercial	Industrial
Depth	0-16"	0-6"	0-6"				
Date	12/5/2019	12/5/2019	12/5/2019				
<b>8270D Semivolatile Organics (SVOCs) (µg/kg)</b>							
Benzo[a]anthracene	590 J	ND	ND	1,000	1,000	5,600	11,000
Benzo[a]pyrene	460 J	ND	ND	1,000	1,000	1,000	1,100
Benzo[b]fluoranthene	660 J	520 J	ND	1,000	1,000	5,600	11,000
Benzo[g,h,i]perylene	490 J	330 J	ND	100,000	100,000	500,000	1,000,000
Benzo[k]fluoranthene	290 J	ND	ND	800	3,900	56,000	110,000
Carbozole	630 J	ND	ND	NL	NL	NL	NL
Fluoranthene	830 J	510 J	ND	100,000	100,000	500,000	1,000,000
Indeno[1,2,3-cd]pyrene	400 J	280 J	ND	500	500	5,600	11,000
Phenanthrene	310 J	ND	ND	100,000	100,000	500,000	1,000,000
Pyrene	670 J	490 J	ND	100,000	100,000	500,000	1,000,000
<b>8082 PCBs (mg/kg)</b>							
PCB-1254	0.96	ND	ND	0.1	1	1	25
<b>6010C Metals (mg/kg)</b>							
Arsenic	<b>72.1</b>	8.8	13.2	13	16	16	16
Barium	107	110	53.8	350	400	400	10,000
Cadmium	0.78	0.4	0.082 J	2.5	4.3	9.3	60
Chromium	17.3	14.5	9.6	*30	*180	*800	*6800
Lead	222	121	12.8	63	400	1,000	3,900
<b>Method 7471B - Mercury (CVAA)</b>							
Mercury	0.26	0.17	0.024	0.18	0.81	2.8	5.7

Soil Clean up Objectives were obtained for the NYSDEC Commissioner Policy, 51 (CP-51) Soil Cleanup Guidance, Protection of Ecological Resources or Protection of Groundwater

NYSDEC Part 375 Unrestricted, Restricted Residential, Commercial and Industrial Soil Cleanup Objectives (SCOs) (December 2006)

ND = Parameter Not Detected

NL = Not Listed

J = The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.

µg/L = Micrograms per liter

mg/kg = Micrograms per kilogram

\* = Regulatory limit for Chromium, trivalent

Gray indicates sample exceeds Unrestricted SCOS

**Bold** indicates sample exceeds Restricted Residential SCOS

*Italics* indicates samples exceeds Commercial SCOS

Underlined indicates sample exceeds Industrial SCOS

**Phase II Environmental Site Assessment**  
**Emkay Trading Site, 58 Church Street, Arcade, New York**  
**Table 2**  
**Summary of Subsurface Soil/Fill Analytical Results for Underground Storage Tank Area**  
**(Detected Compounds Only)**

Sample Location	UST Test Pit 1	UST Test Pit 2	UST Test Pit 3	UST Test Pit 4		Part 375 Soil Cleanup Objectives (SCOs)				
Sample ID	Sample 1UST	Sample 2UST	Sample 3UST	Sample 4UST		CP-51 SCG	Unrestricted	Restricted Residential	Commercial	Industrial
Depth	2-3'	2-4'	2-4'	4-6'						
Date	12/4/2019	12/4/2019	12/4/2019	12/4/2019						
<b>CP-51 Volatile Organic Compounds (VOCs) (µg/kg)</b>										
1,2,4-Trimethylbenzene	2,200	**7,600	3,300	88 J	3,300	3,600	52,000	190,000	380,000	
1,3,5-Trimethylbenzene	820	2,200	1,100	170	8,400	8,400	52,000	190,000	380,000	
4-Isopropyltoluene	170 J	ND	170 J	90 J	NL	NL	NL	NL	NL	
Benzene	ND	**1,400	ND	ND	60	60	4,800	44,000	89,000	
Ethylbenzene	460	**3,400	340 J	140	1,000	1,000	41,000	390,000	780,000	
Isopropylbenzene	190 J	540	150 J	84 J	2,300	NL	NL	NL	NL	
Naphthalene	710	950	530	200	12,000	12,000	100,000	500,000	1,000,000	
N-Propylbenzene	380	1,200	410	200	3,900	3,900	100,000	500,000	1,000,000	
sec-Butylbenzene	110 J	150 J	140 J	88 J	11,000	11,000	100,000	500,000	1,000,000	
Toluene	89	**9300	ND	ND	700	700	100,000	500,000	1,000,000	
o-Xylene	560	6,100	480	15 J	NL	NL	NL	NL	NL	
m-Xylene & p-Xylene	1,400	15,000	1,200	100 J	NL	NL	NL	NL	NL	
Xylenes (mixed)	**2,000	**21,000	**1,700	120 J	260 (mixed)	260 (mixed)	100,000 (mixed)	500,000 (mixed)	1,000,000 (mixed)	
<b>CP-51 Semi Volatile Organic Compounds (SVOCs) (µg/kg)</b>										
Benzo[a]anthracene	ND	ND	85 J	ND	1,000	1,000	1,000	5,600	11,000	
Benzo[a]pyrene	ND	ND	76 J	ND	1,000	1,000	1,000	1,000	1,100	
Benzo[b]fluoranthene	ND	ND	98 J	ND	1,000	1,000	1,000	5,600	11,000	
Benzol[g,h,i]perylene	ND	20 J	57 J	140 J	100,000	100,000	100,000	500,000	1,000,000	
Chrysene	ND	ND	92 J	ND	1,000	1,000	3,900	56,000	110,000	
Fluoranthene	ND	27 J	130 J	250 J	1,000,000	100,000	100,000	500,000	1,000,000	
Indeno[1,2,3-cd]pyrene	ND	ND	58 J	ND	500	500	500	5,600	11,000	
Naphthalene	210	1,600	700	700 J	12,000	12,000	100,000	500,000	1,000,000	
Pyrene	ND	24 J	110 J	190 J	100,000	100,000	100,000	500,000	1,000,000	
Phenanthrene	ND	ND	50 J	ND	100,000	100,000	100,000	500,000	1,000,000	
<b>RCRA Metals (mg/kg)</b>										
Arsenic	16	9.6	9	11.2	NL	13	16	16	16	
Barium	81	54.2	92.1	89	NL	350	400	400	10,000	
Cadmium	ND	0.28	0.35	0.22 J	NL	2.5	4.3	9.3	60	
Chromium	20	13.8	18.5	16	NL	*30	*180	*1,500	*6800	
Lead	19.2	24.1	23.8	41.6	NL	63	400	1,000	3,900	
Selenium	ND	ND	0.81 J	0.53 J	NL	3.9	180	1,500	6,800	
Silver	ND	0.31 J	0.26 J	ND	NL	2	180	1,500	6,800	
<b>7471B-Mercury (CVAA)</b>										
Mercury	ND	0.03	0.15	0.11	NL	0.18	0.81	2.8	5.7	

Soil Clean up Objectives were obtained for the NYSDEC Commissioner Policy, 51 (CP-51) Soil Cleanup Guidance (SCG), Protection of Ecological Resources or Protection of Groundwater  
NYSDEC Part 375 Unrestricted, Restricted Residential, Commercial and Industrial Soil Cleanup Objectives (SCOs) (December 2006)

ND = Parameter Not Detected

NL = Not Listed

J = The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.

µg/L = Micrograms per liter

mg/kg = Micrograms per kilogram

\* = Regulatory limit for Chromium, trivalent

\*\* = Indicates sample exceeds CP-51 SCGs

Gray indicates sample exceeds Unrestricted SCOs

**Bold** indicates sample exceeds Restricted Residential SCOs

*Italics* indicates samples exceeds Commercial SCOs

Underlined indicates sample exceeds Industrial SCOs

**Phase II Environmental Site Assessment**  
**Emkay Trading Site, 58 Church Street, Arcade, New York**  
**Table 3**  
**Summary of Site-Wide Subsurface Soil/Fill Analytical Results**  
**(Detected Compounds Only)**

Sample Location	Test Pit 4	Test Pit 3	Test Pit 5	Test Pit 6	Test Pit 9	Test Pit 1	Part 375 Soil Cleanup Objectives (SCOs)			
Sample ID	TP#4, 1-2'	TP#3, 2-3	TP#5, 1-2	TP#6, 3-4	TP#9, 3	TP#1, 1-2				
Depth	1-2'	2-3'	1-2'	3-4'	3'	1-2'	Unrestricted	Restricted Residential	Commercial	Industrial
Date	12/5/2019	12/5/2019	12/5/2019	12/5/2019	12/5/2019	12/5/2019				
<b>8260C TCL List OLM04.2 Volatile Organic Compounds (VOCs) (µg/kg)</b>										
2-Butanone (MEK)	ND	ND	2.0 J	1.4 J	5.3 J	ND	NL	NL	NL	NL
Chloroform	ND	0.26 J	ND	ND	ND	ND	370	49,000	350,000	700,000
Acetone	ND	ND	15	1.7 J	ND	1.8 J	50	100,000	500,000	1,000,000
Methylene Chloride	ND	ND	ND	0.95 J	ND	0.66 J	50	100,000	500,000	1,000,000
<b>8270D Semivolatile Organics (SVOCs) (µg/kg)</b>										
Acenaphthylene	ND	170 J	ND	46 J	ND	63 J	100,000	100,000	500,000	1,000,000
Anthracene	ND	130 J	ND	99 J	ND	62 J	100,000	100,000	500,000	1,000,000
Benz[a]anthracene	ND	580	<b>1,200 F1 F2</b>	420	ND	320	1,000	1,000	5,600	11,000
Benz[a]pyrene	63 J	520	970 J F1 F2	460	ND	300	1,000	1,000	1,000	1,100
Benz[b]fluoranthene	88 J	870	<b>1,200 J F1 F2</b>	510	ND	380	1,000	1,000	5,600	11,000
Benz[g,h,i]perylene	66 J	410	600 J F2	310	230 J	210	100,000	100,000	500,000	1,000,000
Benz[k]fluoranthene	39 J	350	500 J F2	240	ND	190 J	800	3,900	56,000	110,000
Carbozole	ND	27 J	ND	76 J	ND	25 J	NL	NL	NL	NL
Chrysene	76 J	690	1,100 F1 F2	470	ND	340	1,000	3,900	56,000	110,000
Dibenzo(a,h)anthracene	ND	130 J	220 J F2	97 J	ND	82 J	330	330	560	1,100
Dibenzofuran	ND	31 J	ND	29 J	ND	ND	NL	NL	NL	NL
Fluoranthene	100 J	910	2,200 F1 F2	760	ND	530	100,000	100,000	500,000	1,000,000
Fluorene	ND	ND	ND	31 J	ND	190 J	30,000	100,000	500,000	1,000,000
Indeno[1,2,3-cd]pyrene	50 J	380	500 J F1 F2	290	ND	ND	500	500	5,600	11,000
2-Methylnaphthalene	ND	70 J	ND	48 J	ND	ND	NL	NL	NL	NL
Naphthalene	ND	ND	ND	30 J	ND	ND	12,000	100,000	500,000	1,000,000
Phenanthrene	44 J	200 J	770 J F1 F2	490	ND	200	100,000	100,000	500,000	1,000,000
Pyrene	100 J	880	2,000 F1 F2	720	ND	430	100,000	100,000	500,000	1,000,000
<b>8082 PCBs (mg/kg)</b>										
PCB-1254	ND	ND	ND	ND	0.21 J	ND	0.1	1	1	25
<b>6010C Metals (mg/kg)</b>										
Arsenic	8.1	<b>35.8</b>	<b>19.2</b>	9.9	<b>73.8</b>	8.4	13	16	16	16
Barium	39.5	69.5	109 F1 F2	50.7	115	72.8	350	400	400	10,000
Cadmium	0.088 J	ND	0.062 J	0.18 J	0.79	0.51	2.5	4.3	9.3	60
Chromium	7.3	10.2	12.3	12.7	16.4	10.9	*30	*180	*1,500	*6,800
Lead	16.4	50	<b>2,340 F2</b>	16	270	92.6	63	400	1,000	3,900
Selenium	ND	0.74 J	1.1 J	ND	0.82 J	ND	3.9	180	1,500	6,800
<b>Method 7471B - Mercury (CVAA)</b>										
Mercury	0.29	0.52	0.45	0.23	0.25	0.1	0.18	0.81	2.8	5.7

Soil Clean up Objectives were obtained for the NYSDEC Commissioner Policy, 51 (CP-51) Soil Cleanup Guidance, Protection of Ecological Resources or Protection of Groundwater

NYSDEC Part 375 Unrestricted, Restricted Residential, Commercial and Industrial Soil Cleanup Objectives (SCOs) (December 2006)

ND = Parameter Not Detected

NL = Not Listed

J = The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.

µg/L = Micrograms per liter

mg/kg = Micrograms per kilogram

\* = Regulatory limit for Chromium, trivalent

Gray indicates sample exceeds Unrestricted SCOS

**Bold** indicates sample exceeds Restricted Residential SCOS

*Italics* indicates samples exceeds Commercial SCOS

Underlined indicates sample exceeds Industrial SCOS

F1 = MS and/or MSD Recovery is outside acceptance limits

F2 = MS/MSD RPD (Selective Percent Difference, a measure of the relative difference between tow points) exceeds control limits

**Phase II Environmental Site Assessment**  
**Former Emkay Trading Site, 58 Church Street, Arcade, New York**

**Table 4**  
**Summary of Groundwater Analytical Results**  
(Detected Compounds Only)

Sample ID	MW-1	MW-2	MW-3	Trip Blank	NYSDEC TOGS
Sample Date	1/13/2020	1/13/2020	1/13/2020		
<b>Volatile Organic Compounds (µg/L)</b>					
Acetone	ND	11 J	ND	ND	50
Benzene	ND	ND	43	ND	1.0
Chloroform	ND	1.3 J	ND	ND	7.0
Cyclohexane	ND	ND	500	ND	NL
EthylBenzene	ND	ND	640	ND	5.0
Isopropylbenzene	ND	ND	100	ND	5.0
Methylcyclohexane	ND	ND	440	ND	NL
Methylene Chloride	ND	ND	29	ND	5.0
Toluene	ND	ND	13	ND	5.0
Xylenes, Total	ND	ND	210	ND	5.0
<b>Semi-Volatile Organic Compounds (µg/L)</b>					
2-Methylnaphthalene	ND	ND	67	ND	4.7
Caprolactam	26	21	17 J	ND	NL
Naphthalene	ND	ND	270	ND	10
<b>Metals (mg/L)</b>					
Arsenic	0.035	0.15	0.038	ND	0.025
Barium	2.3	1.1	0.56	ND	1.0
Cadmium	0.0035	0.00067 J	0.00052 J	ND	0.005
Chromium	0.049	0.14	0.023	ND	0.05
Lead	0.11	0.18	0.038	ND	0.025
Mercury	0.0014	0.00018 J	ND	ND	0.0007

NYSDEC TOGS = New York State Department of Environmental Conservation (NYSDEC) Division of Water Technical and Operational Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations

Parameter concentrations exceeding NYSDEC TOGS are shaded

Concentrations shaded in gray exceed the Ambient Water Quality Standards (AWQS)

NL = Not listed

ND = Not detected

NA = Not analyzed

µg/L = Micrograms per liter

mg/L = Milligrams per liter

J = Indicates an estimated value.



## APPENDIX 1

Field Logs

DRAFT



 LaBella  
300 Pearl Street, Suite 130

## TEST PIT LOG

Phase II ESA

Emkay Trading; WCBC North LLC  
58 Church Street. Arcade. New York 14009

## **TEST PIT:**

Sheet of  
JOB: 2193071

CONTRACTOR: LaBella Enviro, LLC

OPRFATOR: Kevin

LABELLA REPRESENTITIVI: H.Geoghegan

START DATE: 12/5/19 END DATE: 12/5/2019

TIME: to  
DATUM:

**TYPE OF Equipment:** Excavator

Ground water was not encountered

## **GROUNDWATER ENCOUNTERED**

---

**NOTES:**

DATE	DEPTH	WELL INSTALLED	WELL ID
------	-------	-------------------	---------

Test Pit -



LaBella

300 Pearl Street, Suite 130

## **TEST PIT LOG**

Phase II ESA

Emkay Trading; WCBC North LLC  
58 Church Street, Arcade, New York 14009

**TEST PIT:** 2

Sheet of  
JOB: 2193071

CONTRACTOR: LaBella Enviro, LLC

OPERATOR: Kevin

LABELLA REPRESENTATIVE: H.Geoghegan

START DATE: 12/5/19 END DATE: 12/5/2019

TIME: to  
DATUM:

**TYPE OF Equipment:** Excavator

## GROUNDWATER ENCOUNTERED

---

**NOTES:**

**NOTE:**  
Because of conditions were not able to  
spot zone of saturation

## BORING:

2



 LaBella  
300 Pearl Street, Suite 13

## TEST PIT LOG

Phase II ESA

Emkay Trading; WCBC North LLC  
58 Church Street, Arcade, New York 14009

## **TEST PIT:**

3

Sheet of  
JOB: 2193071

CONTRACTOR: LaBella Enviro, LLC

OPREATOR: Kevin

LABELA REPRESENTITIVE: H.Geoghegan

START DATE: 12/4/19 END DATE: 12/4/2019

**TIME:** to

DATUM:

**TYPE OF Equipment:** Excavator

\* No ground water encountered.

## **GROUNDWATER ENCOUNTERED**

---

**NOTES:**

DATE

DEPTH

**WELL  
INSTALLED**

SELL ID

BORING: 3



LaBella

300 Pearl Street, Suite 130

## TEST PIT LOG

Phase II ESA

Emkay Trading; WCBC North LLC  
58 Church Street, Arcade, New York 14009

## **TEST PIT:**

4

Sheet of  
JOB: 2193071

**CONTRACTOR:** LaBella Enviro, LLC

OPERATOR: Kevin

LABELLA REPRESENTITIVI: H.Geoghegan

START DATE: 12/5/19 END DATE: 12/5/2019

**TIME:** to

**DATUM:**

**TYPE OF Equipment:** Excavator

## **GROUNDWATER ENCOUNTERED**

---

**NOTES:**

DATE

DEPTH

**WELL  
INSTALLED**

WELL ID

4



300 Pearl Street, Suite 130

## TEST PIT LOG

Phase II ESA

Emkay Trading; WCBC North LLC  
58 Church Street, Arcade, New York 14009

TEST PIT:

5

Sheet of  
JOB: 2193071

**CONTRACTOR:** LaBella Enviro, LLC

OPRFATOR: Kevin

LABELLA REPRESENTITATIVE: H.Geoghegan

START DATE: 12/5/19 END DATE: 12/5/2019

TIME: to

DATUM:

**TYPE OF Equipment:** Excavator

## **GROUNDWATER ENCOUNTERED**

**NOTES:**

DAT

DEPTH

**WELL  
INSTALLED**

[View Details](#)

BORING: 5



300 Pearl Street, Suite 130

**TEST PIT LOG**  
 Phase II ESA  
 Emkay Trading; WCBC North LLC  
 58 Church Street, Arcade, New York 14009

TEST PIT: 6

Sheet of  
JOB: 2193071

CONTRACTOR: LaBella Enviro. LLC  
 OPERATOR: Kevin  
 LABELLA REPRESENTATIVE: H.Geoghegan

START DATE: 12/5/19 END DATE: 12/5/2019

TIME: to  
DATUM:

TYPE OF Equipment: Excavator

DEPTH (Feet)	SAMPLE		VISUAL CLASSIFICATION
	PID FIELD SCREEN (Parts per million)	STRATA CHANGE	
0-2	0		Building debris. - Brick, wood & cinder blocks, w fire hose Clay Piping. Brown sandy silt. (SP) Some, well rounded to rounded gravel
2-4	0		Building debris : Brick, cinder block and piping/hoses. Brown Sandy-silt (SP) with Trace Weathered coal. Some well rounded to subrounded gravel: Alluvial deposits.
4-6	0.		Coal; 1-2" pieces of coal along with some mechanically crushed coal.
6-8	0		Brown with trace black(coal) silty sand (SP) with Abundance of well rounded to sub rounded gravel. - Alluvial deposits.
8-10	0		Brown silty sand (SP) with Abundance of well rounded to Subrounded gravel. - Alluvial deposits
* No Groundwater encountered.			

GROUNDWATER ENCOUNTERED				NOTES:
DATE	DEPTH	WELL INSTALLED	WELL ID	
				BORING: 6



300 Pearl Street, Suite 130

## TEST PIT LOG

Phase II ESA

Emkay Trading; WCBC North LLC  
58 Church Street, Arcade, New York 14009

## TEST PIT:

7

Sheet of  
JOB: 2193071CONTRACTOR: LaBella Enviro. LLC  
OPREATOR: Kevin  
LABELLA REPRESENTITIVE: H.Geoghegan

START DATE: 12/5/19 END DATE: 12/5/2019

TIME: to  
DATUM:

TYPE OF Equipment: Excavator

DEPTH (Feet)	SAMPLE		VISUAL CLASSIFICATION
	PID FIELD SCREEN (Parts per million)	STRATA CHANGE	
Location - White tractor trailer Scale was located			
0-2'	0.0		Dark brown to Brown, silty sand (SM), trace well rounded to subrounded gravel. size: Crush Run #2
2-4'	0.0		Dark brown to Brown, silty sand (SM) some well rounded to subrounded gravel: Crush Run #2. * Clay drainage pipe noted @ 2' below ground surface, pipe pointed southeast - coming from South East corner of main property Building.
2-4'	0.0		Brown silty sand (SM) some well rounded to subrounded gravel - Alluvial deposits.
4-6'	0.0		Brown silty sand (SM) - some well rounded to subrounded gravel - Alluvial deposits.
6-8'	0.0		- same as 4-6 with exception to increase in size. for Alluvial deposits as test pit depth increased.
8-10'			- Again same: Brown silty sand (SM), Abundant rounded to Subrounded gravel (Alluvial deposits with Alluvial gravel increasing in size with test pit depth - ALSO glacial outwash present).
* Groundwater was not encountered.			
GROUNDWATER ENCOUNTERED			NOTES:
DATE	DEPTH	WELL INSTALLED	WELL ID

BORING:

7



LaBella

300 Pearl Street, Suite 130

## **TEST PIT LOG**

Phase II ESA

Emkay Trading; WCBC North LLC  
58 Church Street, Arcade, New York 14009

TEST PIT:

8

Sheet of  
JOB: 2193071

CONTRACTOR: LaBella Enviro. LLC

OPREATOR: Kevin

LABELLA REPRESENTITIVE: H.Geoghegan

START DATE: 12/5/19 END DATE: 12/5/2019

TIME: to

DATUM:

**TYPE OF Equipment:** Excavator

## GROUNDWATER ENCOUNTERED

---

**NOTES:**

DAT

DEPTH

**WELL  
INSTALLED**

WELL ID

### **BORING:**

8



LaBella

300 Pearl Street, Suite 130

TEST PIT LOG

Phase II ESA

**Emkay Trading; WCBC North LLC  
58 Church Street, Arcade, New York 14009**

## TEST PIT:

9

Sheet of  
JOB: 2193071

CONTRACTOR: LaBella Enviro, LLC

OPREATOR: Kevin

**LABELLA REPRESENTITIVE: H.Geoghegan**

START DATE: 12/5/19 END DATE: 12/5/2019

**TIME:** to

DATUM:

**TYPE OF Equipment:** Excavator

## **GROUNDWATER ENCOUNTERED**

**NOTES:**

DATE

---

DEPT

WELL  
INSTALLED

ID

## BORING:

9



LaBella

300 Pearl Street, Suite 130

## **TEST PIT LOG**

Phase II ESA

**Emkay Trading; WCBC North LLC  
58 Church Street, Arcade, New York 14009**

**TEST PIT:**

10

Sheet of  
JOB: 2193071

CONTRACTOR: LaBella Enviro, LLC

OPERATOR: Kevin

**LABELLA REPRESENTITIVE: H.Geoghegan**

START DATE: 12/5/19 END DATE: 12/5/2019

**TIME:** to

DATUM:

**TYPE OF Equipment:** Excavator

## GROUNDWATER ENCOUNTERED

---

**NOTES:**

DATE

DEPTH

**WELL  
INSTALLED**

WELL ID

## BORING:

10



300 Pearl Street, Suite 130

## **TEST PIT LOG**

Phase II ESA

Emkay Trading; WCBC North LLC  
58 Church Street, Arcade, New York 14009

TEST PIT:  
UST AREA  
Sheet of  
JOB: 219307

W

CONTRACTOR: LaBella Enviro, LLC

OPERATOR: Kevin

LABELLA REPRESENTITIVI: H.Geoghegan

START DATE: 12/4/19 END DATE: 12/4/2019

TIME: to  
DATUM:

TYPE OF Equipment: Excavator



300 Pearl Street, Suite 130

**TEST PIT LOG**  
Phase II ESA  
Emkay Trading; WCBC North LLC  
58 Church Street, Arcade, New York 14009

**TEST PIT:** 2  
**UST AREA:**  
Sheet of  
**JOB:** 2193071

**CONTRACTOR:** LaBella Enviro. LLC  
**OPREATOR:** Kevin  
**LABELLA REPRESENTITIVIE:** H.Geoghegan

START DATE: 12/4/19 END DATE: 12/4/2019

TIME: to  
DATUM:

**TYPE OF Equipment:** Excavator

DEPTH (Feet)	SAMPLE		VISUAL CLASSIFICATION
	PID FIELD SCREEN (Parts per million)	STRATA CHANGE	
<b>Underground Storage Tank Test Pits : Near Former Dispensary Pad.</b>			
0-2'	230		Dark Brown to Black Sandy silt (SP), Some well rounded to Sub Angular gravel. Trace odor
2-4	600		Dark Brown to Black Sandy Silt (SP), some well rounded to Sub Angular gravel. Trace odor present. Soils moist. trace clay staining evident.
4-6	600		Black to Dark brown Sandy silt (SP) , some, well rounded to Subrounded gravel. Trace odor present. Soils moist. trace clay . No staining - transitioned into a Dark Brown.
6-8	600		Dark Brown Sandy silt (SP) Som, well rounded to Subrounded gravel. Trace odor present. Soils Damp. No clay (Alluvial deposits & glacial outwash)
8-10	287		Dark Brown , sandy silt (SP) , Abundant well rounded to subrounded gravel; minimal odor. Damp, No clay . (Alluvial deposits increasing w/ depth)
10-12'	87		Stone AS Above. * Ground water WAS NOT ENCOUNTERED
<b>GROUNDWATER ENCOUNTERED</b>			<b>NOTES:</b>
DATE	DEPTH	WELL INSTALLED	WELL ID

**BORING:** 2



**TEST PIT LOG**  
Phase II ESA  
Emkay Trading; WCBC North LLC  
58 Church Street, Arcade, New York 14009

**TEST PIT:** 3  
**VST AREA**  
Sheet of  
**JOB:** 2193071

**CONTRACTOR:** LaBella Enviro. LLC  
**OPERATOR:** Kevin  
**LABELLA REPRESENTATIVE:** H. Geoghegan

START DATE: 12/4/19 END DATE: 12/4/2019

TIME: to  
DATUM:

**TYPE OF Equipment:** Excavator

DEPTH (Feet)	SAMPLE		VISUAL CLASSIFICATION
	PID FIELD SCREEN (Parts per million)	STRATA CHANGE	
<i>Underground Storage Tank Test Pits: West Side of former Dispensary Pad.</i>			
0-2	180		Dark Brown to black sandy silt (SP), some well rounded to subrounded gravel. (Alluvial deposits). Trace odor.
2-4	385		Dark Brown to Black Sandy silt (SP) some well rounded to subrounded gravel. (Alluvial deposits). Trace clay, Trace odor moist
4-6	300		Dark Brown Sandy silt (SP), some well rounded to sub-rounded gravel. (Alluvial deposits) trace clay, trace odor. moist.
6-8	200		Dark Brown Sandy Silt (SP), some well rounded to sub-rounded gravel (Alluvial deposits) trace odor. slightly moist. Alluvial deposits increasing in size with depth of test pits.
8-10	200		Same as above.
<i>* Ground water was not encountered</i>			

GROUNDWATER ENCOUNTERED				NOTES:
DATE	DEPTH	WELL INSTALLED	WELL ID	
				BORING: 3



TEST PIT LOG  
Phase II ESA  
Emkay Trading; WCBC North LLC  
58 Church Street, Arcade, New York 14009

TEST PIT:  
UST area  
Sheet of  
JOB: 2193071

4

CONTRACTOR: LaBella Enviro. LLC  
OPREATOR: Kevin  
LABELLA REPRESENTITIV: H.Geoghegan

START DATE: 12/4/19 END DATE: 12/4/2019

TIME: to  
DATUM:

TYPE OF Equipment: Excavator

DEPTH (Feet)	SAMPLE		VISUAL CLASSIFICATION
	PID FIELD SCREEN (Parts per million)	STRATA CHANGE	
<u>Underground Storage Tank Test pits: Downgradient (South) of Dispensary Pad</u>			
0-2	100		Dark Brown to Black sand silt (SP), some well rounded to subrounded gravel. (Alluvial deposits). Trace odor. No visible staining.
2-4'	115		Dark Brown to Black sand silt (SP), some well rounded to subrounded gravel. (Alluvial deposits) Trace odor, moist, no visible staining. ; trace amount of clay.
4-6'	135		Dark Brown to Black, sand silt (SP), some well rounded to subrounded gravel. (Alluvial deposits, trace glacial out wash) Trace odor, no visible staining, moist.
6-8	260		Same as above except appearance of object. Was discovered C 12' that this was an abandoned Telephone pole. moist, No visible staining.
8-10	220		Same as above. Alluvial deposits increasing w/size with depth of hole. Trace odor, NO visible staining.
10-12	0		Determined telephone pole. Set to 12' below ground surface. Groundwater WAS NOT encountered.

GROUNDWATER ENCOUNTERED				NOTES:
DATE	DEPTH	WELL INSTALLED	WELL ID	

BORING: 4

 <b>LaBella</b> Powered by partnership.  300 PEARL STREET, BUFFALO, NY ENVIRONMENTAL ENGINEERING CONSULTANT			Former Emkay trading Site, 58 Church Street, Arcade, New York Phase I/II Environmental Site Assessment			<b>BORING:</b> MW-1 <b>SHEET</b> 1 <b>OF</b> 1 <b>JOB:</b> 2193071 <b>CHKD BY:</b>		
CONTRACTOR: LaBella LLC DRILLER: Neal Short LABELLA REPRESENTATIVE: HEG			BORING LOCATION: MW 1 GROUND SURFACE ELEVATION NA START DATE: 1/7/2020 END DATE: 01/07/2020			TIME: 800 TO 1050 DATUM: 1/7/2020		
TYPE OF EQUIPMENT: AUGER SIZE AND TYPE: 4 IN OVERBURDEN SAMPLING METHOD: Split Spoon						DRIVE SAMPLER TYPE: Split Spoon INSIDE DIAMETER: OTHER:		
D E P T H	SAMPLE			VISUAL CLASSIFICATION			PID FIELD SCREEN (PPM)	NOTES
	BLOW COUNT	SAMPLE RECOVERY	STRATA CHANGE					
2	5 13 14 14	18"		Dark Brown; silty sand (GM); transition to gray Silt; Siltstone in tip of split spoon; Native Soil (Alluvial Deposits); Moist			0	
4	6 8 8 7	4"		Light gray to gray; Silt with trace Sand (GM), and Siltstone in tip split spoon; Native Soil (Alluvial Deposits); Moist			0	
6	6 12 5 11	6"		Dark brown to black; 90% fine Sand with 10% Silt (GM). Trace pebble size well rounded Siltstone throughout Native Soil (Alluvial Deposits); Moist			0	
8	10 17 13 11	12"		Dark brown to light brown; 50% fine well round to subangular Sand 50% Silt, (GM); trace fragmented Siltstone in tip of split spoon Native Soil (Alluvial Deposits); Moist			0	
10	5 10 13 13	8"		Gray with a transition to light brown; 50 % fine Sand and 50% Silt (GM); fragmentated Chert in auger tip. Alluvial Deposits; Wet			0	Surface Water
12	9 9 9 8	11.5"		11-11.2" slough 11.2-11.11" Dark Brown to dark gray; fine Sand and with some Silt (GM); Alluvial Deposits; Wet			0	
14	8 9 5 5	14.5"		Dark Brown; fine Sand, trace silt (GM); Siltstone in tip of split spoon Alluvial Deposits; Moist				
16	5 4 3 4	2.5"		Dark Gray; fine to medium Sand; Moist; Alluvial Deposits			0	
18	3 4 7 8	3"		Sand with well round siltstone; trace glacial deposits; Alluvial; Moist				Ground Water At 15' bgs
20	12 7 18 20	8"		Brown fine to medium size Sand; Alluvial Deposits; Moist			0	
22	7 8 10 12	14"		Brown fine to medium size Sand; Alluvial Deposits; Moist			0	
				DEPTH (FT)		NOTES:		
WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NA = Not Applicable ND = Non Detect		
DATE	TIME	ELASPED TIME				21'	22'	~15'
GENERAL NOTES 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE								
<b>BORING:</b> MW-1								



300 PEARL STREET, BUFFALO, NY  
ENVIRONMENTAL ENGINEERING CONSULTANTS

Former Emkay trading Site, 58 Church Street, Arcade, New York  
Phase I/II Environmental Site Assessment

**BORING: MW-2**  
**SHEET 1 OF 1**  
**JOB: 2193071**  
**CHKD BY:**

CONTRACTOR:	LaBella LLC	BORING LOCATION:	Monitorig Well 2	TIME:	1206 TO	1400
DRILLER:	Neal Short	GROUND SURFACE ELEVATION	NA	DATUM:		
LABELLA REPRESENTATIVE:	HEG	START DATE:	1/7/2020	END DATE:	01/07/2020	

TYPE OF EQUIPMENT:  
AUGER SIZE AND TYPE: 4 IN  
OVERBURDEN SAMPING METHOD: Split Spoon

DRIVE SAMPLER TYPE:  
INSIDE DIAMETER:  
OTHER:

D E P T H	SAMPLE			VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	NOTES
	BLOW COUNT	SAMPLE RECOVERY	STRATA CHANGE			
2	10 7 6 4	17"		Black to very Dark Gray, Sand with trace Silt (GM); Moist Surface Soil	0	
4	4 4 4 5	4.5"		Black, trace Dark Brown, Silt with trace fine Sand (GM). Surface Water; Wet	0	
6	3 3 5 5	14"		5.0-5.2': Slough; 5.2-6': Grayish Brown silty Clay (OL); Moist		
8	9 9 11 10	21"		7-7.2': Slough 7.2- 8.9': Grayish Brown Silt with Clay (OH); trace well rounded Moist	0	
10	2 3 5 6	19"		Grayish Brown Clay with Silt (OH); trace fine Sand; Moist	0	
12	7 7 8 8	24"		10-10.5' Grayish Brown Silty Clay (OH) 10.5-11.5': Brown to light Brown, Silt, trace Clay; Moist 11.5-12.0": Light Brown Silt, increased moisture	0	Clay Seam eneded @ ~ 10.5' bgs
14	7 12 13 13	24"		Brown with olive tone; Silt; Moist	0	
16	4 11 12 13	7"		Brown, Sand and Pebbles (Alluvial Deposits) Wet		Ground Water @ ~ 15' bgs
18	11 11 22 30	17"		Light Brown transiton to Gray Silt (90%) with some Clay (10%) Well rounded to subrounded pebbles; Alluvial Deposits		
20	6 9 16 19	9"		Light Brown to Gray, Clay (90%) with some Silt (10%); some Pebbles; Aluvial Deposits; Moist	0	
22	6 8 13 17	12.5"		Light Brown to Gray, Clay (90%) with some Silt (10%); some Pebbles; Aluvial Deposits; Moist	0	

DEPTH (FT)

NOTES:

WATER LEVEL DATA		BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NA = Not Applicable ND = Non Detect
DATE	TIME	ELASPED TIME	21'	22'	~15'

GENERAL NOTES

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER  
MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

**BORING: MW-2**

 <b>LaBella</b> <small>Powered by partnership.</small> 300 PEARL STREET, BUFFALO, NY ENVIRONMENTAL ENGINEERING CONSULTANTS			Former Emkay trading Site, 58 Church Street, Arcade, New York Phase I/II Environmental Site Assessment			<b>BORING:</b> MW-3 <b>SHEET:</b> 1 <b>OF:</b> 1 <b>JOB:</b> 2193071 <b>CHKD BY:</b>		
CONTRACTOR: LaBella LLC DRILLER: Neal Short LABELLA REPRESENTATIVE: HEG			BORING LOCATION: MW 3 GROUND SURFACE ELEVATION START DATE: 1/8/2020			Monitorig Well 3 TIME: TO DATUM:		
TYPE OF EQUIPMENT: AUGER SIZE AND TYPE: 4 IN OVERBURDEN SAMPLING METHOD:						DRIVE SAMPLER TYPE: INSIDE DIAMETER: OTHER:		
D E P T H	SAMPLE		VISUAL CLASSIFICATION			PID FIELD SCREEN (PPM)	NOTES	
	BLOW COUNT	SAMPLE RECOVERY	STRATA CHANGE					
2	6 6 5 5	14"		Black to very Dark Gray, Silt with fine Sand (SM); trace clay, Moist Surface Soil; no apparent fill material			0	
4	5 6 6 7	18"		Black to very Dark Gray, Silt with fine Sand (SM); trace clay, Moist				
6	1 3 2 3	12"		Dark Brown with some Black - Dark Gray; Silt with fine Sand (SM); trace clay, Moist			89	Noticable Odor
8	5 7 7 8	24"		Dark Brown with some Black - Dark Gray; Silt with fine Sand (SM); trace clay, Moist			39	Very strong odor
10	1 3 4 3	12"		Dark Brown to Black Silt with very fine Sand (SM); Moist			350	Staining apparent and mottled soil
12	1 7 7 7	6"		Dark Brown to Black Silt with very fine Sand (SM); Moist			15.8	
14	6 8 9 10	20"		Dark Gray Silt with very fine Sand (SM); Moist			50	Stong odor
16	6 8 10 12	24"		Dark Brown with Gray and Black very fine Sand; Wet			0	Ground Water ~ 15' bgs
18	6 8 10 12	24"		Dark Brown with Gray and Black very fine to fine Sand; Wet			0	
20	2 2 3 4	24"		Dark Brown with Gray and Black very fine to fine Sand; Moist			0	
22	2 13 16 19	21"		Dark Brown with Gray and Black fine to medium Sand; Moist			0	
			DEPTH (FT)			NOTES:		
WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	NA = Not Applicable ND = Non Detect		
DATE	TIME	ELASPED TIME	20	22	~15'			
1/8/2020								
GENERAL NOTES 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL. 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCURE DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE								
<b>BORING:</b> MW-3								



300 PEARL STREET, BUFFALO, NEW YORK  
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT

58 Church Street Arcade, New York

MONITORING WELL:

MW-1

SHEET

1 OF 1

JOB #

2193071

CONTRACTOR: LaBella Associates LLC

BORING LOCATION: MW 1

TYPE OF DRILL RIG: CME55LC

DRILLER: Neal Short

GROUND SURFACE ELEVATION: NA

DATUM: NA

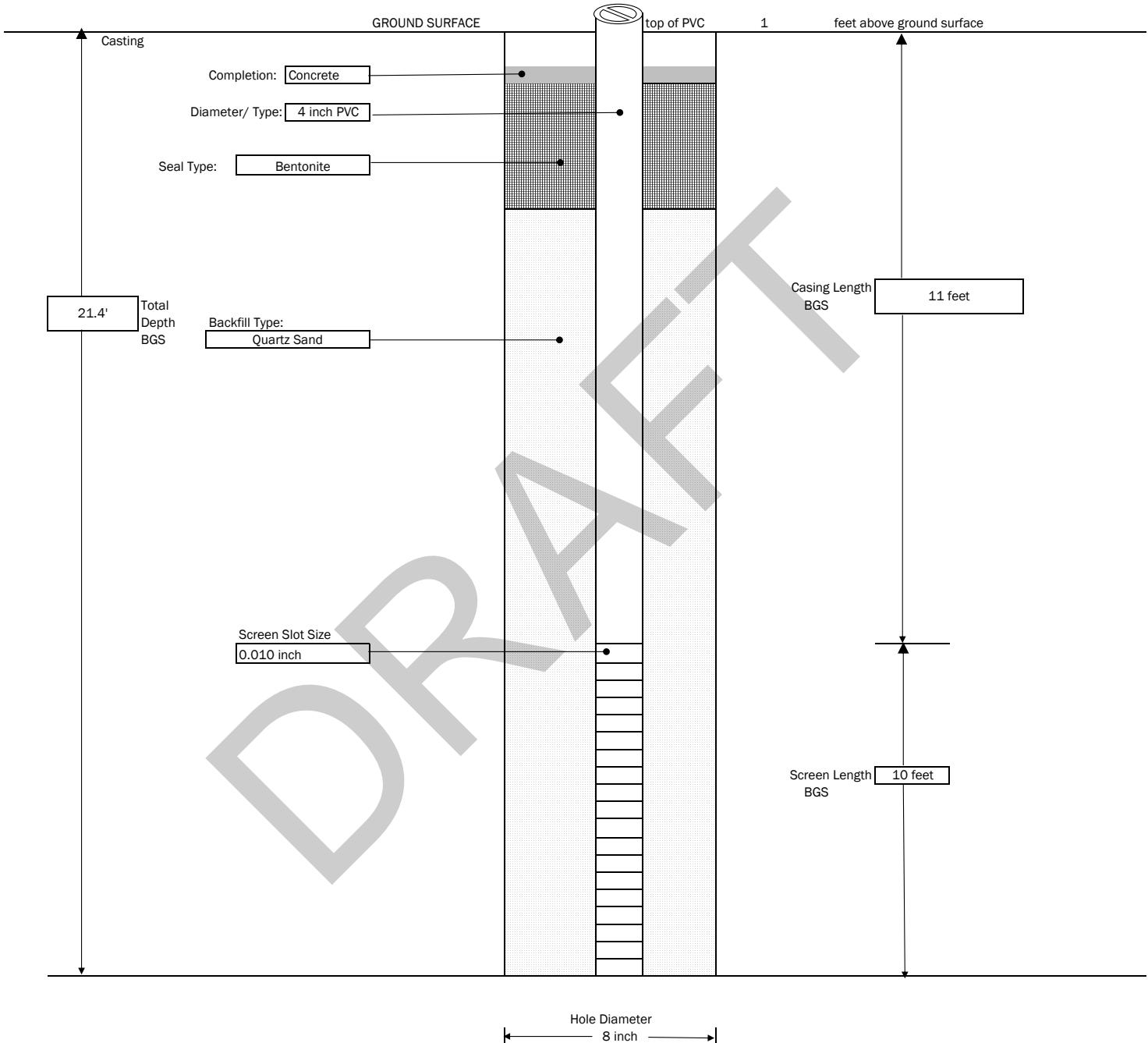
AUGER SIZE AND TYPE: Hollow Stem

LABELLA REPRESENTATIVE: H. Geoghegan

START DATE: 01/07/2020

END DATE: 01/07/2020

OVERBURDEN SAMPLING METHOD: 2" Split Spoon



GENERAL NOTES:

- 1) NOT TO SCALE
- 2) DEPTHS ARE APPROXIMATE
- 3) BGS = below ground surface
- 4) NA = not applicable



300 PEARL STREET, BUFFALO, NEW YORK  
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT

58 Church Street Arcade, New York

MONITORING WELL:

MW-2

SHEET

1 OF 1

JOB #

2193071

CONTRACTOR: LaBella Associates LLC

BORING LOCATION: MW 2

TYPE OF DRILL RIG: CME55LC

DRILLER: Neal Short

GROUND SURFACE ELEVATION: NA

DATUM: NA

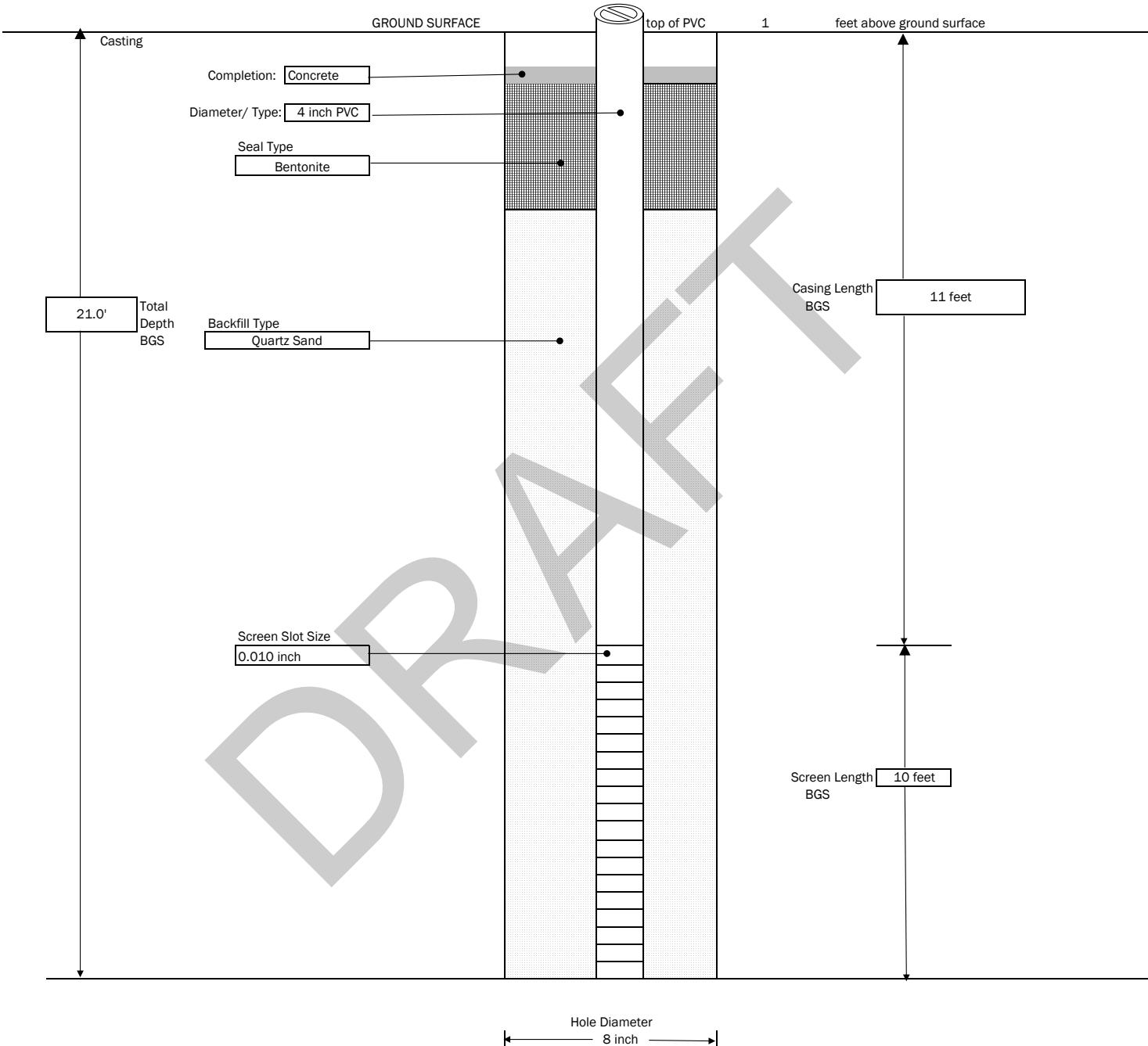
AUGER SIZE AND TYPE: Hollow Stem

LABELLA REPRESENTATIVE: H. Geoghegan

START DATE: 01/07/2020

END DATE: 01/07/2020

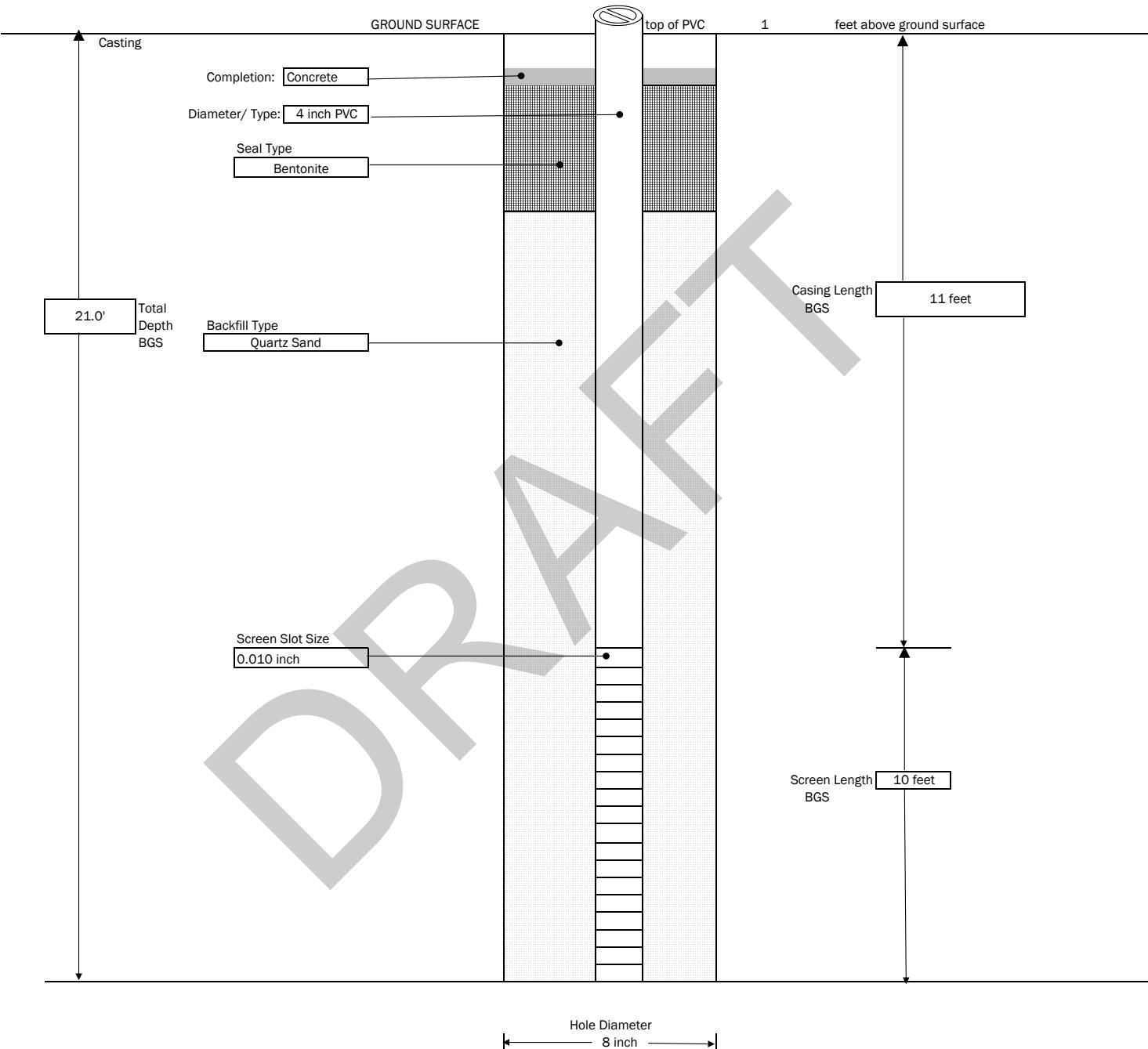
OVERBURDEN SAMPLING METHOD: 2" Split Spoon



GENERAL NOTES:

- 1) NOT TO SCALE
- 2) DEPTHS ARE APPROXIMATE
- 3) BGS = below ground surface
- 4) NA = not applicable

 <b>LaBella</b> Powered by partnership. 300 PEARL STREET, BUFFALO, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	<b>PROJECT</b>  58 Church Street Arcade, New York	<b>MONITORING WELL:</b> MW-3  <b>SHEET</b> 1 OF 1 <b>JOB #</b> 2193071
	<b>CONTRACTOR:</b> LaBella Associates LLC <b>BORING LOCATION:</b> MW 3 <b>DRILLER:</b> Neal Short <b>GROUND SURFACE ELEVATION:</b> NA <b>DATUM:</b> NA <b>LABELLA REPRESENTATIVE:</b> H. Geoghegan <b>START DATE:</b> 01/07/2020 <b>END DATE:</b> 01/07/2020	<b>TYPE OF DRILL RIG:</b> CME55LC <b>AUGER SIZE AND TYPE:</b> Hollow Stem <b>OVERBURDEN SAMPLING METHOD:</b> 2" Split Spoon


**GENERAL NOTES:**

- 1) NOT TO SCALE
- 2) DEPTHS ARE APPROXIMATE
- 3) BGS = below ground surface
- 4) NA = not applicable

**LABELLA ASSOCIATES, D.P.C.**
**Environmental Engineering Consultants**
**Well I.D. MW1**

Site Location:

EmKay Trading 58 Church Street, Arcade, NY

Job No.

Sample Date:

1/15/2020

2193071

LaBella Representative:

H. Geoghegan

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time	0930	0935	0940	0950	0950		
Depth of well	21.00						
Depth to water	15.38'						
Well diameter	2"						
Well volume (gallons)	5.1e2						
Purging device	Baileys						
Containment device	NA						
Purge time							
Gallons purged	0.89	0.89	0.89	0.89			
Sample device	Baileys						

**Field Parameters**

Temperature							
pH measurement							
Conductivity (mS/cm)							
ORP/Eh (mV)							
Turbidity (NTUs)							

**WEATHER:**
**NOTES/FIELD OBSERVATIONS:**

Removed 5 Well Volumes. Well went dry while Sampling.  
Well clarity did not improve. Very Very fine Silt.

**Well Volume Purge:** 1 Well Volume = (Total Well Depth – Static Depth To Water) X Well Capacity  
(only if applicable) = (ft. - ft.) X . gal/ft = 0.3056 gallons

**Well Capacity (Gallons per Foot):** 0.75"=0.02    1"=0.04    1.5"=0.092    2"=0.16    3"=0.37  
4"=0.65    5"=1.02    6"=1.47    12"=5.88

**1. Stabilization Criteria for range of variation of last three consecutive Readings**

**pH:**  $\pm 0.2$  units; **Temperature:**  $\pm 0.5^{\circ}\text{C}$ ; **Specific Conductance:**  $\pm 10\%$ ; **Turbidity:**  $\leq 50 \text{ NTU}$

A minimum of three well volumes and a maximum of five well volumes are to be removed from each well prior to sampling. In the event that groundwater recharge is slow, the purging process will continue until the well is purged "dry". After the water level has returned to its pre-purge level (or within a maximum of two hours), samples will be collected. If the water level is slow to recharge and does not reach its pre-purge level within two hours, then samples can be collected after sufficient water has recharged, and the degree of recharge indicated in field notes with time and depth to water noted.

**LABELLA ASSOCIATES, D.P.C.**
**Environmental Engineering Consultants**

Site Location:

Emkay Trading 58 Church Street; Arcade, NY

Sample Date:

7/13/2020

LaBella Representative:

H. GeogheganWell I.D. MW 2

Job No.

2193071

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time	1115	1115	1133	1150	1230		
Depth of well	21.65'						
Depth to water	10.9						
Well diameter	2.0"						
Well volume (gallons)	2,366						
Purging device	Bailes						
Containment device	NA						
Purge time							
Gallons purged	7.08						
Sample device	Bailes						

**Field Parameters**

Temperature						
pH measurement						
Conductivity (mS/cm)						
ORP/Eh (mV)						
Turbidity (NTUs)						

**WEATHER:**
**NOTES/FIELD OBSERVATIONS:**

Well had a great deal of silt @ bottom. Removed 5 well volumes in an attempt to remove sediment. Sample still slightly turbid.

**Well Volume Purge:** 1 Well Volume = (Total Well Depth – Static Depth To Water) X Well Capacity  
 (only if applicable) = (ft. - ft.) X . gal/ft = 0.3056 gallons

Well Capacity (Gallons per Foot): 0.75"=0.02 1"=0.04 1.5"=0.092 2"=0.16 3"=0.37

4"=0.65 5"=1.02 6"=1.47 12"=5.88

**1. Stabilization Criteria for range of variation of last three consecutive Readings**

**pH:**  $\pm 0.2$  units; **Temperature:**  $\pm 0.5^{\circ}\text{C}$ ; **Specific Conductance:**  $\pm 10\%$ ; **Turbidity:**  $\leq 50 \text{ NTU}$

A minimum of three well volumes and a maximum of five well volumes are to be removed from each well prior to sampling. In the event that groundwater recharge is slow, the purging process will continue until the well is purged "dry". After the water level has returned to its pre-purge level (or within a maximum of two hours), samples will be collected. If the water level is slow to recharge and does not reach its pre-purge level within two hours, then samples can be collected after sufficient water has recharged, and the degree of recharge indicated in field notes with time and depth to water noted.

**LABELLA ASSOCIATES, D.P.C.**
**Environmental Engineering Consultants**

Site Location:

Emkay Trading 58 Church St. Arcade, NY  
Y1392020

Well I.D. MW3

Sample Date:

Job No.

LaBella Representative:

2193071

H. Geoghegan

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time	12:11	12:11	12:18	12:25	12:30		
Depth of well	21.52						
Depth to water	8.07						
Well diameter	2"						
Well volume (gallons)	2.050						
Purging device	Baile						
Containment device	NA						
Purge time							
Gallons purged	2.050						
Sample device	Baile						

**Field Parameters**

Temperature							
pH measurement							
Conductivity (mS/cm)							
ORP/Eh (mV)							
Turbidity (NTUs)							

**WEATHER:**
**NOTES/FIELD OBSERVATIONS:**

Noticable odor when well cap removed. Very Strong. No Visible Product. Removed 3 well volumes. Water clarity still slightly turbid.

**Well Volume Purge: 1 Well Volume = (Total Well Depth – Static Depth To Water) X Well Capacity  
(only if applicable)**

$$= (\text{ft.} - \text{ft.}) \times \text{gal/ft} = 0.3056 \text{ gallons}$$

Well Capacity (Gallons per Foot):  $0.75'' = 0.02$     $1'' = 0.04$     $1.5'' = 0.092$     $2'' = 0.16$     $3'' = 0.37$

$4'' = 0.65$     $5'' = 1.02$     $6'' = 1.47$     $12'' = 5.88$

**1. Stabilization Criteria for range of variation of last three consecutive Readings**

**pH:  $\pm 0.2$  units; Temperature:  $\pm 0.5^\circ\text{C}$ ; Specific Conductance:  $\pm 10\%$ ; Turbidity:  $\leq 50 \text{ NTU}$**

A minimum of three well volumes and a maximum of five well volumes are to be removed from each well prior to sampling. In the event that groundwater recharge is slow, the purging process will continue until the well is purged "dry". After the water level has returned to its pre-purge level (or within a maximum of two hours), samples will be collected. If the water level is slow to recharge and does not reach its pre-purge level within two hours, then samples can be collected after sufficient water has recharged, and the degree of recharge indicated in field notes with time and depth to water noted.



## APPENDIX 2

Laboratory Analytical Reports

DRAFT



Environment Testing  
TestAmerica

1

2

3

4

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6

7

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10

11

12

13

14

15



## ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo  
10 Hazelwood Drive  
Amherst, NY 14228-2298  
Tel: (716)691-2600

Laboratory Job ID: 480-163813-1  
Client Project/Site: Church Street Project

For:  
LaBella Associates DPC  
300 Pearl Street  
Suite 130  
Buffalo, New York 14202

Attn: Mr. Robert Napieralski

Authorized for release by:  
12/17/2019 5:21:35 PM  
Alexander Gilbert, Project Management Assistant I  
[alexander.gilbert@testamericainc.com](mailto:alexander.gilbert@testamericainc.com)

Designee for  
Brian Fischer, Manager of Project Management  
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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DRAFT

# Definitions/Glossary

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

### GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Case Narrative

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

## Job ID: 480-163813-1

Laboratory: Eurofins TestAmerica, Buffalo

### Narrative

#### Job Narrative 480-163813-1

### Comments

No additional comments.

### Receipt

The samples were received on 12/6/2019 3:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.2° C and 2.5° C.

### GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-508746 recovered above the upper control limit for 2-Butanone (MEK) and 2-Hexanone. The samples associated with this CCV were non-detect above the reporting limit for the affected analytes; therefore, the data have been reported. The following samples are impacted: TP #3, 2-3 (480-163813-2), TP #5, 1-2 (480-163813-3), TP #6, 3-4 (480-163813-4), TP #9, 3 (480-163813-5) and TP #1, 1-2 (480-163813-6).

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-508768 and analytical batch 480-508746 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The following samples are impacted: TP #5, 1-2 (480-163813-3[MS]) and TP #5, 1-2 (480-163813-3[MSD]).

Method 8260C: The following samples were analyzed using medium level soil analysis and diluted due to the nature of the sample matrix: SAMPLE 1UST (480-163813-10), SAMPLE 3UST (480-163813-12) and SAMPLE 4UST (480-163813-13). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was analyzed using medium level soil analysis and diluted to bring the concentration of target analytes within the calibration range: SAMPLE 2UST (480-163813-11). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-509077 recovered above the upper control limit for 4-Nitrophenol, Bis(2-ethylhexyl) phthalate and Hexachlorobutadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: TP #4, 1-2 (480-163813-1), TP #3, 2-3 (480-163813-2), TP #5, 1-2 (480-163813-3), TP #6, 3-4 (480-163813-4), TP #9, 3 (480-163813-5), TP #1, 1-2 (480-163813-6), TP9 SURFACE (480-163813-7), CHURCHSTREET BAYAREA (480-163813-8) and UST PARKING AREA (480-163813-9).

Method 8270D: The following samples was diluted due to color and appearance: TP #5, 1-2 (480-163813-3), TP #5, 1-2 (480-163813-3[MS]), TP #5, 1-2 (480-163813-3[MSD]), TP #9, 3 (480-163813-5), TP9 SURFACE (480-163813-7), CHURCHSTREET BAYAREA (480-163813-8) and SAMPLE 4UST (480-163813-13). Elevated reporting limits (RL) are provided.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-508877 and analytical batch 480-509077 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 480-508877 and analytical batch 480-509077 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected.

Method 8270D: Surrogate recovery was outside acceptance limits for the following matrix spike duplicate (MSD) sample: TP #5, 1-2 (480-163813-3[MSD]). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### GC Semi VOA

Method 8082A: The following samples are associated with a continuing calibration verification (CCV 480-508966/5) that had recoveries for

# Case Narrative

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

## Job ID: 480-163813-1 (Continued)

### Laboratory: Eurofins TestAmerica, Buffalo (Continued)

the surrogate Decachlorobiphenyl that were below acceptance limits: TP #4, 1-2 (480-163813-1), TP #3, 2-3 (480-163813-2), TP #5, 1-2 (480-163813-3), TP #6, 3-4 (480-163813-4), TP #9, 3 (480-163813-5), TP #1, 1-2 (480-163813-6), TP9 SURFACE (480-163813-7), CHURCHSTREET BAYAREA (480-163813-8) and UST PARKING AREA (480-163813-9). The secondary surrogate Tetrachloro-m-xylene is within limits. Therefore, the data has been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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# Detection Summary

Client: LaBella Associates DPC  
 Project/Site: Church Street Project

Job ID: 480-163813-1

## Client Sample ID: TP #4, 1-2

## Lab Sample ID: 480-163813-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	63	J	210	31	ug/Kg	1	⊗	8270D	Total/NA
Benzo[b]fluoranthene	88	J	210	33	ug/Kg	1	⊗	8270D	Total/NA
Benzo[g,h,i]perylene	66	J	210	22	ug/Kg	1	⊗	8270D	Total/NA
Benzo[k]fluoranthene	39	J	210	27	ug/Kg	1	⊗	8270D	Total/NA
Chrysene	76	J	210	47	ug/Kg	1	⊗	8270D	Total/NA
Fluoranthene	100	J	210	22	ug/Kg	1	⊗	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	50	J	210	26	ug/Kg	1	⊗	8270D	Total/NA
Phenanthrene	44	J	210	31	ug/Kg	1	⊗	8270D	Total/NA
Pyrene	100	J	210	25	ug/Kg	1	⊗	8270D	Total/NA
Arsenic	8.1		2.4	0.49	mg/Kg	1	⊗	6010C	Total/NA
Barium	39.5		0.61	0.13	mg/Kg	1	⊗	6010C	Total/NA
Cadmium	0.088	J	0.24	0.036	mg/Kg	1	⊗	6010C	Total/NA
Chromium	7.3		0.61	0.24	mg/Kg	1	⊗	6010C	Total/NA
Lead	16.4		1.2	0.29	mg/Kg	1	⊗	6010C	Total/NA
Mercury	0.29		0.024	0.0098	mg/Kg	1	⊗	7471B	Total/NA

## Client Sample ID: TP #3, 2-3

## Lab Sample ID: 480-163813-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.26	J	2.1	0.13	ug/Kg	1	⊗	8260C	Total/NA
2-Methylnaphthalene	70	J	210	42	ug/Kg	1	⊗	8270D	Total/NA
Acenaphthylene	170	J	210	27	ug/Kg	1	⊗	8270D	Total/NA
Anthracene	130	J	210	52	ug/Kg	1	⊗	8270D	Total/NA
Benzo[a]anthracene	580		210	21	ug/Kg	1	⊗	8270D	Total/NA
Benzo[a]pyrene	520		210	31	ug/Kg	1	⊗	8270D	Total/NA
Benzo[b]fluoranthene	870		210	33	ug/Kg	1	⊗	8270D	Total/NA
Benzo[g,h,i]perylene	410		210	22	ug/Kg	1	⊗	8270D	Total/NA
Benzo[k]fluoranthene	350		210	27	ug/Kg	1	⊗	8270D	Total/NA
Carbazole	27	J	210	25	ug/Kg	1	⊗	8270D	Total/NA
Chrysene	690		210	47	ug/Kg	1	⊗	8270D	Total/NA
Dibenz(a,h)anthracene	130	J	210	37	ug/Kg	1	⊗	8270D	Total/NA
Dibenzofuran	31	J	210	25	ug/Kg	1	⊗	8270D	Total/NA
Fluoranthene	910		210	22	ug/Kg	1	⊗	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	380		210	26	ug/Kg	1	⊗	8270D	Total/NA
Phenanthrene	200	J	210	31	ug/Kg	1	⊗	8270D	Total/NA
Pyrene	880		210	25	ug/Kg	1	⊗	8270D	Total/NA
Arsenic	35.8		2.5	0.49	mg/Kg	1	⊗	6010C	Total/NA
Barium	69.5		0.62	0.14	mg/Kg	1	⊗	6010C	Total/NA
Chromium	10.2		0.62	0.25	mg/Kg	1	⊗	6010C	Total/NA
Lead	50.0		1.2	0.30	mg/Kg	1	⊗	6010C	Total/NA
Selenium	0.74	J	4.9	0.49	mg/Kg	1	⊗	6010C	Total/NA
Mercury	0.52		0.025	0.010	mg/Kg	1	⊗	7471B	Total/NA

## Client Sample ID: TP #5, 1-2

## Lab Sample ID: 480-163813-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	2.0	J	11	0.78	ug/Kg	1	⊗	8260C	Total/NA
Acetone	15		11	1.8	ug/Kg	1	⊗	8260C	Total/NA
Benzo[a]anthracene	1200	F1 F2	1000	100	ug/Kg	5	⊗	8270D	Total/NA
Benzo[a]pyrene	970	J F1 F2	1000	150	ug/Kg	5	⊗	8270D	Total/NA
Benzo[b]fluoranthene	1200	F1 F2	1000	160	ug/Kg	5	⊗	8270D	Total/NA
Benzo[g,h,i]perylene	600	J F2	1000	110	ug/Kg	5	⊗	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

# Detection Summary

Client: LaBella Associates DPC  
 Project/Site: Church Street Project

Job ID: 480-163813-1

## Client Sample ID: TP #5, 1-2 (Continued)

## Lab Sample ID: 480-163813-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[k]fluoranthene	500	J F2	1000	130	ug/Kg	5	⊗	8270D	Total/NA
Chrysene	1100	F1 F2	1000	230	ug/Kg	5	⊗	8270D	Total/NA
Dibenz(a,h)anthracene	220	J F2	1000	180	ug/Kg	5	⊗	8270D	Total/NA
Fluoranthene	2200	F1 F2	1000	110	ug/Kg	5	⊗	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	500	J F1 F2	1000	130	ug/Kg	5	⊗	8270D	Total/NA
Phenanthrene	770	J F1 F2	1000	150	ug/Kg	5	⊗	8270D	Total/NA
Pyrene	2000	F1 F2	1000	120	ug/Kg	5	⊗	8270D	Total/NA
Arsenic	19.2		2.5	0.51	mg/Kg	1	⊗	6010C	Total/NA
Barium	109	F1 F2	0.63	0.14	mg/Kg	1	⊗	6010C	Total/NA
Cadmium	0.062	J	0.25	0.038	mg/Kg	1	⊗	6010C	Total/NA
Chromium	12.3		0.63	0.25	mg/Kg	1	⊗	6010C	Total/NA
Lead	2340	F2	1.3	0.30	mg/Kg	1	⊗	6010C	Total/NA
Selenium	1.1	J	5.1	0.51	mg/Kg	1	⊗	6010C	Total/NA
Mercury	0.45	F1	0.025	0.010	mg/Kg	1	⊗	7471B	Total/NA

## Client Sample ID: TP #6, 3-4

## Lab Sample ID: 480-163813-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	1.4	J	7.1	0.52	ug/Kg	1	⊗	8260C	Total/NA
Acetone	1.7	J	7.1	1.2	ug/Kg	1	⊗	8260C	Total/NA
Methylene Chloride	0.95	J	1.4	0.65	ug/Kg	1	⊗	8260C	Total/NA
2-Methylnaphthalene	48	J	190	38	ug/Kg	1	⊗	8270D	Total/NA
Acenaphthene	46	J	190	28	ug/Kg	1	⊗	8270D	Total/NA
Anthracene	99	J	190	47	ug/Kg	1	⊗	8270D	Total/NA
Benzo[a]anthracene	420		190	19	ug/Kg	1	⊗	8270D	Total/NA
Benzo[a]pyrene	460		190	28	ug/Kg	1	⊗	8270D	Total/NA
Benzo[b]fluoranthene	510		190	30	ug/Kg	1	⊗	8270D	Total/NA
Benzo[g,h,i]perylene	310		190	20	ug/Kg	1	⊗	8270D	Total/NA
Benzo[k]fluoranthene	240		190	25	ug/Kg	1	⊗	8270D	Total/NA
Carbazole	76	J	190	22	ug/Kg	1	⊗	8270D	Total/NA
Chrysene	470		190	43	ug/Kg	1	⊗	8270D	Total/NA
Dibenz(a,h)anthracene	97	J	190	34	ug/Kg	1	⊗	8270D	Total/NA
Dibenzofuran	29	J	190	22	ug/Kg	1	⊗	8270D	Total/NA
Fluoranthene	760		190	20	ug/Kg	1	⊗	8270D	Total/NA
Fluorene	31	J	190	22	ug/Kg	1	⊗	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	290		190	24	ug/Kg	1	⊗	8270D	Total/NA
Naphthalene	30	J	190	25	ug/Kg	1	⊗	8270D	Total/NA
Phenanthrene	490		190	28	ug/Kg	1	⊗	8270D	Total/NA
Pyrene	720		190	22	ug/Kg	1	⊗	8270D	Total/NA
Arsenic	9.9		2.3	0.47	mg/Kg	1	⊗	6010C	Total/NA
Barium	50.7		0.58	0.13	mg/Kg	1	⊗	6010C	Total/NA
Cadmium	0.18	J	0.23	0.035	mg/Kg	1	⊗	6010C	Total/NA
Chromium	12.7		0.58	0.23	mg/Kg	1	⊗	6010C	Total/NA
Lead	16.0		1.2	0.28	mg/Kg	1	⊗	6010C	Total/NA
Mercury	0.23		0.021	0.0086	mg/Kg	1	⊗	7471B	Total/NA

## Client Sample ID: TP #9, 3

## Lab Sample ID: 480-163813-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	5.3	J	11	0.82	ug/Kg	1	⊗	8260C	Total/NA
Benzo[g,h,i]perylene	230	J	2100	220	ug/Kg	10	⊗	8270D	Total/NA
PCB-1254	0.21	J	0.25	0.12	mg/Kg	1	⊗	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

# Detection Summary

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

## Client Sample ID: TP #9, 3 (Continued)

## Lab Sample ID: 480-163813-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	73.8		2.6	0.52	mg/Kg	1	⊗	6010C	Total/NA
Barium	115		0.65	0.14	mg/Kg	1	⊗	6010C	Total/NA
Cadmium	0.79		0.26	0.039	mg/Kg	1	⊗	6010C	Total/NA
Chromium	16.4		0.65	0.26	mg/Kg	1	⊗	6010C	Total/NA
Lead	270		1.3	0.31	mg/Kg	1	⊗	6010C	Total/NA
Selenium	0.82	J	5.2	0.52	mg/Kg	1	⊗	6010C	Total/NA
Mercury	0.25		0.025	0.010	mg/Kg	1	⊗	7471B	Total/NA

## Client Sample ID: TP #1, 1-2

## Lab Sample ID: 480-163813-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.8	J	7.0	1.2	ug/Kg	1	⊗	8260C	Total/NA
Methylene Chloride	0.66	J	1.4	0.64	ug/Kg	1	⊗	8260C	Total/NA
Acenaphthylene	63	J	200	26	ug/Kg	1	⊗	8270D	Total/NA
Anthracene	62	J	200	51	ug/Kg	1	⊗	8270D	Total/NA
Benzo[a]anthracene	320		200	20	ug/Kg	1	⊗	8270D	Total/NA
Benzo[a]pyrene	300		200	30	ug/Kg	1	⊗	8270D	Total/NA
Benzo[b]fluoranthene	380		200	32	ug/Kg	1	⊗	8270D	Total/NA
Benzo[g,h,i]perylene	210		200	22	ug/Kg	1	⊗	8270D	Total/NA
Benzo[k]fluoranthene	190	J	200	26	ug/Kg	1	⊗	8270D	Total/NA
Carbazole	25	J	200	24	ug/Kg	1	⊗	8270D	Total/NA
Chrysene	340		200	46	ug/Kg	1	⊗	8270D	Total/NA
Dibenz(a,h)anthracene	82	J	200	36	ug/Kg	1	⊗	8270D	Total/NA
Fluoranthene	530		200	22	ug/Kg	1	⊗	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	190	J	200	25	ug/Kg	1	⊗	8270D	Total/NA
Phenanthrene	200		200	30	ug/Kg	1	⊗	8270D	Total/NA
Pyrene	430		200	24	ug/Kg	1	⊗	8270D	Total/NA
Arsenic	8.4		2.3	0.46	mg/Kg	1	⊗	6010C	Total/NA
Barium	72.8		0.58	0.13	mg/Kg	1	⊗	6010C	Total/NA
Cadmium	0.51		0.23	0.035	mg/Kg	1	⊗	6010C	Total/NA
Chromium	10.9		0.58	0.23	mg/Kg	1	⊗	6010C	Total/NA
Lead	92.6		1.2	0.28	mg/Kg	1	⊗	6010C	Total/NA
Mercury	0.10		0.025	0.010	mg/Kg	1	⊗	7471B	Total/NA

## Client Sample ID: TP9 SURFACE

## Lab Sample ID: 480-163813-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	590	J	2000	200	ug/Kg	10	⊗	8270D	Total/NA
Benzo[a]pyrene	460	J	2000	300	ug/Kg	10	⊗	8270D	Total/NA
Benzo[b]fluoranthene	660	J	2000	320	ug/Kg	10	⊗	8270D	Total/NA
Benzo[g,h,i]perylene	490	J	2000	210	ug/Kg	10	⊗	8270D	Total/NA
Benzo[k]fluoranthene	290	J	2000	260	ug/Kg	10	⊗	8270D	Total/NA
Chrysene	630	J	2000	450	ug/Kg	10	⊗	8270D	Total/NA
Fluoranthene	830	J	2000	210	ug/Kg	10	⊗	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	400	J	2000	250	ug/Kg	10	⊗	8270D	Total/NA
Phenanthrene	310	J	2000	300	ug/Kg	10	⊗	8270D	Total/NA
Pyrene	670	J	2000	240	ug/Kg	10	⊗	8270D	Total/NA
PCB-1254	0.96		0.24	0.11	mg/Kg	1	⊗	8082A	Total/NA
Arsenic	72.1		2.3	0.47	mg/Kg	1	⊗	6010C	Total/NA
Barium	107		0.59	0.13	mg/Kg	1	⊗	6010C	Total/NA
Cadmium	0.78		0.23	0.035	mg/Kg	1	⊗	6010C	Total/NA
Chromium	17.3		0.59	0.23	mg/Kg	1	⊗	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

# Detection Summary

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

## Client Sample ID: TP9 SURFACE (Continued)

## Lab Sample ID: 480-163813-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	222		1.2	0.28	mg/Kg	1	⊗	6010C	Total/NA
Mercury	0.26		0.024	0.0099	mg/Kg	1	⊗	7471B	Total/NA

## Client Sample ID: CHURCHSTREET BAYAREA

## Lab Sample ID: 480-163813-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	520	J	2100	340	ug/Kg	10	⊗	8270D	Total/NA
Benzo[g,h,i]perylene	330	J	2100	230	ug/Kg	10	⊗	8270D	Total/NA
Fluoranthene	510	J	2100	230	ug/Kg	10	⊗	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	280	J	2100	260	ug/Kg	10	⊗	8270D	Total/NA
Pyrene	490	J	2100	250	ug/Kg	10	⊗	8270D	Total/NA
Arsenic	8.8		2.5	0.49	mg/Kg	1	⊗	6010C	Total/NA
Barium	110		0.62	0.14	mg/Kg	1	⊗	6010C	Total/NA
Cadmium	0.40		0.25	0.037	mg/Kg	1	⊗	6010C	Total/NA
Chromium	14.5		0.62	0.25	mg/Kg	1	⊗	6010C	Total/NA
Lead	121		1.2	0.30	mg/Kg	1	⊗	6010C	Total/NA
Mercury	0.17		0.024	0.0097	mg/Kg	1	⊗	7471B	Total/NA

## Client Sample ID: UST PARKING AREA

## Lab Sample ID: 480-163813-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	13.2		2.4	0.49	mg/Kg	1	⊗	6010C	Total/NA
Barium	53.8		0.61	0.13	mg/Kg	1	⊗	6010C	Total/NA
Cadmium	0.082	J	0.24	0.037	mg/Kg	1	⊗	6010C	Total/NA
Chromium	9.6		0.61	0.24	mg/Kg	1	⊗	6010C	Total/NA
Lead	12.8		1.2	0.29	mg/Kg	1	⊗	6010C	Total/NA
Mercury	0.024		0.024	0.0098	mg/Kg	1	⊗	7471B	Total/NA

## Client Sample ID: SAMPLE 1UST

## Lab Sample ID: 480-163813-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	2200		240	67	ug/Kg	10	⊗	8260C	Total/NA
1,3,5-Trimethylbenzene	820		240	73	ug/Kg	10	⊗	8260C	Total/NA
4-Isopropyltoluene	170	J	240	82	ug/Kg	10	⊗	8260C	Total/NA
Ethylbenzene	460		240	70	ug/Kg	10	⊗	8260C	Total/NA
Isopropylbenzene	190	J	240	36	ug/Kg	10	⊗	8260C	Total/NA
m-Xylene & p-Xylene	1400		480	130	ug/Kg	10	⊗	8260C	Total/NA
Naphthalene	710		240	82	ug/Kg	10	⊗	8260C	Total/NA
N-Propylbenzene	380		240	63	ug/Kg	10	⊗	8260C	Total/NA
o-Xylene	560		240	31	ug/Kg	10	⊗	8260C	Total/NA
sec-Butylbenzene	110	J	240	89	ug/Kg	10	⊗	8260C	Total/NA
Toluene	89	J	240	65	ug/Kg	10	⊗	8260C	Total/NA
Xylenes, Total	2000		480	130	ug/Kg	10	⊗	8260C	Total/NA
Naphthalene	210		190	25	ug/Kg	1	⊗	8270D	Total/NA
Arsenic	16.0		2.2	0.44	mg/Kg	1	⊗	6010C	Total/NA
Barium	81.0		0.55	0.12	mg/Kg	1	⊗	6010C	Total/NA
Chromium	20.0		0.55	0.22	mg/Kg	1	⊗	6010C	Total/NA
Lead	19.2		1.1	0.26	mg/Kg	1	⊗	6010C	Total/NA

## Client Sample ID: SAMPLE 2UST

## Lab Sample ID: 480-163813-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	7600		310	85	ug/Kg	20	⊗	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

# Detection Summary

Client: LaBella Associates DPC  
 Project/Site: Church Street Project

Job ID: 480-163813-1

## Client Sample ID: SAMPLE 2UST (Continued)

## Lab Sample ID: 480-163813-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trimethylbenzene	2200		310	92	ug/Kg	20	⊗	8260C	Total/NA
Benzene	1400		310	58	ug/Kg	20	⊗	8260C	Total/NA
Ethylbenzene	3400		310	89	ug/Kg	20	⊗	8260C	Total/NA
Isopropylbenzene	540		310	46	ug/Kg	20	⊗	8260C	Total/NA
m-Xylene & p-Xylene	15000		610	170	ug/Kg	20	⊗	8260C	Total/NA
Naphthalene	950		310	100	ug/Kg	20	⊗	8260C	Total/NA
N-Propylbenzene	1200		310	80	ug/Kg	20	⊗	8260C	Total/NA
o-Xylene	6100		310	40	ug/Kg	20	⊗	8260C	Total/NA
sec-Butylbenzene	150	J	310	110	ug/Kg	20	⊗	8260C	Total/NA
Toluene	9300		310	82	ug/Kg	20	⊗	8260C	Total/NA
Xylenes, Total	21000		610	170	ug/Kg	20	⊗	8260C	Total/NA
Benzo[g,h,i]perylene	20	J	190	20	ug/Kg	1	⊗	8270D	Total/NA
Fluoranthene	27	J	190	20	ug/Kg	1	⊗	8270D	Total/NA
Naphthalene	1600		190	25	ug/Kg	1	⊗	8270D	Total/NA
Pyrene	24	J	190	23	ug/Kg	1	⊗	8270D	Total/NA
Arsenic	9.6		2.3	0.46	mg/Kg	1	⊗	6010C	Total/NA
Barium	54.2		0.58	0.13	mg/Kg	1	⊗	6010C	Total/NA
Cadmium	0.28		0.23	0.035	mg/Kg	1	⊗	6010C	Total/NA
Chromium	13.8		0.58	0.23	mg/Kg	1	⊗	6010C	Total/NA
Lead	24.1		1.2	0.28	mg/Kg	1	⊗	6010C	Total/NA
Silver	0.31	J	0.70	0.23	mg/Kg	1	⊗	6010C	Total/NA
Mercury	0.030		0.022	0.0089	mg/Kg	1	⊗	7471B	Total/NA

## Client Sample ID: SAMPLE 3UST

## Lab Sample ID: 480-163813-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	3300		370	100	ug/Kg	10	⊗	8260C	Total/NA
1,3,5-Trimethylbenzene	1100		370	110	ug/Kg	10	⊗	8260C	Total/NA
4-Isopropyltoluene	170	J	370	130	ug/Kg	10	⊗	8260C	Total/NA
Ethylbenzene	340	J	370	110	ug/Kg	10	⊗	8260C	Total/NA
Isopropylbenzene	150	J	370	56	ug/Kg	10	⊗	8260C	Total/NA
m-Xylene & p-Xylene	1200		740	210	ug/Kg	10	⊗	8260C	Total/NA
Naphthalene	530		370	130	ug/Kg	10	⊗	8260C	Total/NA
N-Propylbenzene	410		370	98	ug/Kg	10	⊗	8260C	Total/NA
o-Xylene	480		370	48	ug/Kg	10	⊗	8260C	Total/NA
sec-Butylbenzene	140	J	370	140	ug/Kg	10	⊗	8260C	Total/NA
Xylenes, Total	1700		740	210	ug/Kg	10	⊗	8260C	Total/NA
Benzo[a]anthracene	85	J	220	22	ug/Kg	1	⊗	8270D	Total/NA
Benzo[a]pyrene	76	J	220	33	ug/Kg	1	⊗	8270D	Total/NA
Benzo[b]fluoranthene	98	J	220	35	ug/Kg	1	⊗	8270D	Total/NA
Benzo[g,h,i]perylene	57	J	220	24	ug/Kg	1	⊗	8270D	Total/NA
Chrysene	92	J	220	50	ug/Kg	1	⊗	8270D	Total/NA
Fluoranthene	130	J	220	24	ug/Kg	1	⊗	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	58	J	220	28	ug/Kg	1	⊗	8270D	Total/NA
Naphthalene	700		220	29	ug/Kg	1	⊗	8270D	Total/NA
Pyrene	110	J	220	26	ug/Kg	1	⊗	8270D	Total/NA
Phenanthrene	50	J	220	33	ug/Kg	1	⊗	8270D	Total/NA
Arsenic	9.0		2.6	0.53	mg/Kg	1	⊗	6010C	Total/NA
Barium	92.1		0.66	0.15	mg/Kg	1	⊗	6010C	Total/NA
Cadmium	0.35		0.26	0.040	mg/Kg	1	⊗	6010C	Total/NA
Chromium	18.5		0.66	0.26	mg/Kg	1	⊗	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

# Detection Summary

Client: LaBella Associates DPC  
 Project/Site: Church Street Project

Job ID: 480-163813-1

## **Client Sample ID: SAMPLE 3UST (Continued)**

## **Lab Sample ID: 480-163813-12**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	23.8		1.3	0.32	mg/Kg	1	⊗	6010C	Total/NA
Selenium	0.81	J	5.3	0.53	mg/Kg	1	⊗	6010C	Total/NA
Silver	0.26	J	0.79	0.26	mg/Kg	1	⊗	6010C	Total/NA
Mercury	0.15		0.027	0.011	mg/Kg	1	⊗	7471B	Total/NA

## **Client Sample ID: SAMPLE 4UST**

## **Lab Sample ID: 480-163813-13**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	88	J	110	31	ug/Kg	4	⊗	8260C	Total/NA
1,3,5-Trimethylbenzene	170		110	34	ug/Kg	4	⊗	8260C	Total/NA
4-Isopropyltoluene	90	J	110	38	ug/Kg	4	⊗	8260C	Total/NA
Ethylbenzene	140		110	33	ug/Kg	4	⊗	8260C	Total/NA
Isopropylbenzene	84	J	110	17	ug/Kg	4	⊗	8260C	Total/NA
m-Xylene & p-Xylene	100	J	220	62	ug/Kg	4	⊗	8260C	Total/NA
Naphthalene	200		110	38	ug/Kg	4	⊗	8260C	Total/NA
N-Propylbenzene	200		110	29	ug/Kg	4	⊗	8260C	Total/NA
o-Xylene	15	J	110	15	ug/Kg	4	⊗	8260C	Total/NA
sec-Butylbenzene	88	J	110	41	ug/Kg	4	⊗	8260C	Total/NA
Xylenes, Total	120	J	220	62	ug/Kg	4	⊗	8260C	Total/NA
Benzo[g,h,i]perylene	140	J	1000	110	ug/Kg	5	⊗	8270D	Total/NA
Fluoranthene	250	J	1000	110	ug/Kg	5	⊗	8270D	Total/NA
Naphthalene	700	J	1000	130	ug/Kg	5	⊗	8270D	Total/NA
Pyrene	190	J	1000	120	ug/Kg	5	⊗	8270D	Total/NA
Arsenic	11.2		2.6	0.52	mg/Kg	1	⊗	6010C	Total/NA
Barium	89.0		0.65	0.14	mg/Kg	1	⊗	6010C	Total/NA
Cadmium	0.22	J	0.26	0.039	mg/Kg	1	⊗	6010C	Total/NA
Chromium	16.0		0.65	0.26	mg/Kg	1	⊗	6010C	Total/NA
Lead	41.6		1.3	0.31	mg/Kg	1	⊗	6010C	Total/NA
Selenium	0.53	J	5.2	0.52	mg/Kg	1	⊗	6010C	Total/NA
Mercury	0.11		0.025	0.010	mg/Kg	1	⊗	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: LaBella Associates DPC  
 Project/Site: Church Street Project

Job ID: 480-163813-1

**Client Sample ID: TP #4, 1-2**  
**Date Collected: 12/05/19 08:48**  
**Date Received: 12/06/19 15:25**

**Lab Sample ID: 480-163813-1**  
**Matrix: Solid**  
**Percent Solids: 81.1**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.4	0.10	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.23	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
1,1,2-Trichloroethane	ND		1.4	0.19	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.4	0.32	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
1,1-Dichloroethane	ND		1.4	0.17	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
1,1-Dichloroethene	ND		1.4	0.17	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
1,2,4-Trichlorobenzene	ND		1.4	0.087	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
1,2-Dibromo-3-Chloropropane	ND		1.4	0.71	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
1,2-Dichlorobenzene	ND		1.4	0.11	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
1,2-Dichloroethane	ND		1.4	0.072	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
1,2-Dichloropropane	ND		1.4	0.71	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
1,3-Dichlorobenzene	ND		1.4	0.073	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
1,4-Dichlorobenzene	ND		1.4	0.20	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
2-Butanone (MEK)	ND		7.1	0.52	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
2-Hexanone	ND		7.1	0.71	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
4-Methyl-2-pentanone (MIBK)	ND		7.1	0.47	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
Acetone	ND		7.1	1.2	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
Benzene	ND		1.4	0.070	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
Bromodichloromethane	ND		1.4	0.19	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
Bromoform	ND		1.4	0.71	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
Bromomethane	ND		1.4	0.13	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
Carbon disulfide	ND		1.4	0.71	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
Carbon tetrachloride	ND		1.4	0.14	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
Chlorobenzene	ND		1.4	0.19	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
Dibromochloromethane	ND		1.4	0.18	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
Chloroethane	ND		1.4	0.32	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
Chloroform	ND		1.4	0.088	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
Chloromethane	ND		1.4	0.086	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
cis-1,2-Dichloroethene	ND		1.4	0.18	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
cis-1,3-Dichloropropene	ND		1.4	0.21	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
Cyclohexane	ND		1.4	0.20	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
Dichlorodifluoromethane	ND		1.4	0.12	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
Ethylbenzene	ND		1.4	0.098	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
1,2-Dibromoethane	ND		1.4	0.18	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
Isopropylbenzene	ND		1.4	0.21	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
Methyl acetate	ND		7.1	0.86	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
Methyl tert-butyl ether	ND		1.4	0.14	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
Methylcyclohexane	ND		1.4	0.22	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
Methylene Chloride	ND		1.4	0.66	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
Styrene	ND		1.4	0.071	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
Tetrachloroethene	ND		1.4	0.19	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
Toluene	ND		1.4	0.11	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
trans-1,2-Dichloroethene	ND		1.4	0.15	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
trans-1,3-Dichloropropene	ND		1.4	0.63	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
Trichloroethene	ND		1.4	0.31	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
Trichlorofluoromethane	ND		1.4	0.13	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
Vinyl chloride	ND		1.4	0.17	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1
Xylenes, Total	ND		2.8	0.24	ug/Kg	⊗	12/07/19 08:00	12/10/19 12:38	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: LaBella Associates DPC  
 Project/Site: Church Street Project

Job ID: 480-163813-1

**Client Sample ID: TP #4, 1-2**  
**Date Collected: 12/05/19 08:48**  
**Date Received: 12/06/19 15:25**

**Lab Sample ID: 480-163813-1**  
**Matrix: Solid**  
**Percent Solids: 81.1**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		71 - 125	12/07/19 08:00	12/10/19 12:38	1
1,2-Dichloroethane-d4 (Surr)	112		64 - 126	12/07/19 08:00	12/10/19 12:38	1
4-Bromofluorobenzene (Surr)	92		72 - 126	12/07/19 08:00	12/10/19 12:38	1
Dibromofluoromethane (Surr)	100		60 - 140	12/07/19 08:00	12/10/19 12:38	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		210	31	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
bis (2-chloroisopropyl) ether	ND		210	42	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
2,4,5-Trichlorophenol	ND		210	57	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
2,4,6-Trichlorophenol	ND		210	42	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
2,4-Dichlorophenol	ND		210	22	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
2,4-Dimethylphenol	ND		210	50	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
2,4-Dinitrophenol	ND		2000	960	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
2,4-Dinitrotoluene	ND		210	43	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
2,6-Dinitrotoluene	ND		210	25	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
2-Chloronaphthalene	ND		210	34	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
2-Chlorophenol	ND		410	38	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
2-Methylphenol	ND		210	25	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
2-Methylnaphthalene	ND		210	42	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
2-Nitroaniline	ND		410	31	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
2-Nitrophenol	ND		210	59	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
3,3'-Dichlorobenzidine	ND		410	250	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
3-Nitroaniline	ND		410	58	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
4,6-Dinitro-2-methylphenol	ND		410	210	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
4-Bromophenyl phenyl ether	ND		210	29	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
4-Chloro-3-methylphenol	ND		210	52	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
4-Chloroaniline	ND		210	52	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
4-Chlorophenyl phenyl ether	ND		210	26	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
4-Methylphenol	ND		410	25	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
4-Nitroaniline	ND		410	110	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
4-Nitrophenol	ND		410	150	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
Acenaphthene	ND		210	31	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
Acenaphthylene	ND		210	27	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
Acetophenone	ND		210	28	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
Anthracene	ND		210	52	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
Atrazine	ND		210	72	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
Benzaldehyde	ND		210	170	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
Benzo[a]anthracene	ND		210	21	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
<b>Benzo[a]pyrene</b>	<b>63 J</b>		210	31	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
<b>Benzo[b]fluoranthene</b>	<b>88 J</b>		210	33	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
<b>Benzo[g,h,i]perylene</b>	<b>66 J</b>		210	22	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
<b>Benzo[k]fluoranthene</b>	<b>39 J</b>		210	27	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
Bis(2-chloroethoxy)methane	ND		210	44	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
Bis(2-chloroethyl)ether	ND		210	27	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
Bis(2-ethylhexyl) phthalate	ND		210	71	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
Butyl benzyl phthalate	ND		210	34	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
Caprolactam	ND		210	63	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
Carbazole	ND		210	25	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
<b>Chrysene</b>	<b>76 J</b>		210	47	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1

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# Client Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

**Client Sample ID: TP #4, 1-2**  
Date Collected: 12/05/19 08:48  
Date Received: 12/06/19 15:25

**Lab Sample ID: 480-163813-1**  
Matrix: Solid  
Percent Solids: 81.1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		210	37	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
Di-n-butyl phthalate	ND		210	36	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
Di-n-octyl phthalate	ND		210	25	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
Dibenzofuran	ND		210	25	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
Diethyl phthalate	ND		210	27	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
Dimethyl phthalate	ND		210	25	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
<b>Fluoranthene</b>	<b>100</b>	<b>J</b>	210	22	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
Fluorene	ND		210	25	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
Hexachlorobenzene	ND		210	28	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
Hexachlorobutadiene	ND		210	31	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
Hexachlorocyclopentadiene	ND		210	28	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
Hexachloroethane	ND		210	27	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>50</b>	<b>J</b>	210	26	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
Isophorone	ND		210	44	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
N-Nitrosodi-n-propylamine	ND		210	36	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
N-Nitrosodiphenylamine	ND		210	170	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
Naphthalene	ND		210	27	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
Nitrobenzene	ND		210	23	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
Pentachlorophenol	ND		410	210	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
<b>Phenanthrene</b>	<b>44</b>	<b>J</b>	210	31	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
Phenol	ND		210	32	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
<b>Pyrene</b>	<b>100</b>	<b>J</b>	210	25	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:59	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>			<b>Limits</b>				
Nitrobenzene-d5 (Surr)	81				53 - 120				
Phenol-d5 (Surr)	72				54 - 120				
p-Terphenyl-d14 (Surr)	112				79 - 130				
2,4,6-Tribromophenol (Surr)	105				54 - 120				
2-Fluorobiphenyl	94				60 - 120				
2-Fluorophenol (Surr)	69				52 - 120				
							<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
							12/09/19 15:01	12/10/19 16:59	1
							12/09/19 15:01	12/10/19 16:59	1
							12/09/19 15:01	12/10/19 16:59	1
							12/09/19 15:01	12/10/19 16:59	1
							12/09/19 15:01	12/10/19 16:59	1
							12/09/19 15:01	12/10/19 16:59	1
							12/09/19 15:01	12/10/19 16:59	1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.30	0.058	mg/Kg	⊗	12/09/19 07:45	12/10/19 11:51	1
PCB-1221	ND		0.30	0.058	mg/Kg	⊗	12/09/19 07:45	12/10/19 11:51	1
PCB-1232	ND		0.30	0.058	mg/Kg	⊗	12/09/19 07:45	12/10/19 11:51	1
PCB-1242	ND		0.30	0.058	mg/Kg	⊗	12/09/19 07:45	12/10/19 11:51	1
PCB-1248	ND		0.30	0.058	mg/Kg	⊗	12/09/19 07:45	12/10/19 11:51	1
PCB-1254	ND		0.30	0.14	mg/Kg	⊗	12/09/19 07:45	12/10/19 11:51	1
PCB-1260	ND		0.30	0.14	mg/Kg	⊗	12/09/19 07:45	12/10/19 11:51	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>			<b>Limits</b>				
Tetrachloro-m-xylene	102				60 - 154				
Tetrachloro-m-xylene	86				60 - 154				
DCB Decachlorobiphenyl	97				65 - 174				
DCB Decachlorobiphenyl	74				65 - 174				
							<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
							12/09/19 07:45	12/10/19 11:51	1
							12/09/19 07:45	12/10/19 11:51	1
							12/09/19 07:45	12/10/19 11:51	1
							12/09/19 07:45	12/10/19 11:51	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.1		2.4	0.49	mg/Kg	⊗	12/10/19 14:13	12/11/19 18:48	1

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# Client Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

**Client Sample ID: TP #4, 1-2**  
Date Collected: 12/05/19 08:48  
Date Received: 12/06/19 15:25

**Lab Sample ID: 480-163813-1**  
Matrix: Solid  
Percent Solids: 81.1

## Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	39.5		0.61	0.13	mg/Kg	✉	12/10/19 14:13	12/11/19 18:48	1
Cadmium	0.088 J		0.24	0.036	mg/Kg	✉	12/10/19 14:13	12/11/19 18:48	1
Chromium	7.3		0.61	0.24	mg/Kg	✉	12/10/19 14:13	12/11/19 18:48	1
Lead	16.4		1.2	0.29	mg/Kg	✉	12/10/19 14:13	12/11/19 18:48	1
Selenium	ND		4.9	0.49	mg/Kg	✉	12/10/19 14:13	12/11/19 18:48	1
Silver	ND		0.73	0.24	mg/Kg	✉	12/10/19 14:13	12/11/19 18:48	1

## Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.29		0.024	0.0098	mg/Kg	✉	12/15/19 14:01	12/15/19 15:01	1

**Client Sample ID: TP #3, 2-3**

Date Collected: 12/05/19 09:30  
Date Received: 12/06/19 15:25

**Lab Sample ID: 480-163813-2**  
Matrix: Solid  
Percent Solids: 79.8

## Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.1	0.15	ug/Kg	✉	12/07/19 08:00	12/09/19 12:44	1
1,1,2,2-Tetrachloroethane	ND		2.1	0.34	ug/Kg	✉	12/07/19 08:00	12/09/19 12:44	1
1,1,2-Trichloroethane	ND		2.1	0.27	ug/Kg	✉	12/07/19 08:00	12/09/19 12:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.1	0.48	ug/Kg	✉	12/07/19 08:00	12/09/19 12:44	1
1,1-Dichloroethane	ND		2.1	0.26	ug/Kg	✉	12/07/19 08:00	12/09/19 12:44	1
1,1-Dichloroethene	ND		2.1	0.26	ug/Kg	✉	12/07/19 08:00	12/09/19 12:44	1
1,2,4-Trichlorobenzene	ND		2.1	0.13	ug/Kg	✉	12/07/19 08:00	12/09/19 12:44	1
1,2-Dibromo-3-Chloropropane	ND		2.1	1.1	ug/Kg	✉	12/07/19 08:00	12/09/19 12:44	1
1,2-Dichlorobenzene	ND		2.1	0.16	ug/Kg	✉	12/07/19 08:00	12/09/19 12:44	1
1,2-Dichloroethane	ND		2.1	0.11	ug/Kg	✉	12/07/19 08:00	12/09/19 12:44	1
1,2-Dichloropropane	ND		2.1	1.1	ug/Kg	✉	12/07/19 08:00	12/09/19 12:44	1
1,3-Dichlorobenzene	ND		2.1	0.11	ug/Kg	✉	12/07/19 08:00	12/09/19 12:44	1
1,4-Dichlorobenzene	ND		2.1	0.29	ug/Kg	✉	12/07/19 08:00	12/09/19 12:44	1
2-Butanone (MEK)	ND		11	0.77	ug/Kg	✉	12/07/19 08:00	12/09/19 12:44	1
2-Hexanone	ND		11	1.1	ug/Kg	✉	12/07/19 08:00	12/09/19 12:44	1
4-Methyl-2-pentanone (MIBK)	ND		11	0.69	ug/Kg	✉	12/07/19 08:00	12/09/19 12:44	1
Acetone	ND		11	1.8	ug/Kg	✉	12/07/19 08:00	12/09/19 12:44	1
Benzene	ND		2.1	0.10	ug/Kg	✉	12/07/19 08:00	12/09/19 12:44	1
Bromodichloromethane	ND		2.1	0.28	ug/Kg	✉	12/07/19 08:00	12/09/19 12:44	1
Bromoform	ND		2.1	1.1	ug/Kg	✉	12/07/19 08:00	12/09/19 12:44	1
Bromomethane	ND		2.1	0.19	ug/Kg	✉	12/07/19 08:00	12/09/19 12:44	1
Carbon disulfide	ND		2.1	1.1	ug/Kg	✉	12/07/19 08:00	12/09/19 12:44	1
Carbon tetrachloride	ND		2.1	0.20	ug/Kg	✉	12/07/19 08:00	12/09/19 12:44	1
Chlorobenzene	ND		2.1	0.28	ug/Kg	✉	12/07/19 08:00	12/09/19 12:44	1
Dibromochloromethane	ND		2.1	0.27	ug/Kg	✉	12/07/19 08:00	12/09/19 12:44	1
Chloroethane	ND		2.1	0.48	ug/Kg	✉	12/07/19 08:00	12/09/19 12:44	1
<b>Chloroform</b>	<b>0.26 J</b>		2.1	0.13	ug/Kg	✉	12/07/19 08:00	12/09/19 12:44	1
Chloromethane	ND		2.1	0.13	ug/Kg	✉	12/07/19 08:00	12/09/19 12:44	1
cis-1,2-Dichloroethene	ND		2.1	0.27	ug/Kg	✉	12/07/19 08:00	12/09/19 12:44	1
cis-1,3-Dichloropropene	ND		2.1	0.30	ug/Kg	✉	12/07/19 08:00	12/09/19 12:44	1
Cyclohexane	ND		2.1	0.29	ug/Kg	✉	12/07/19 08:00	12/09/19 12:44	1
Dichlorodifluoromethane	ND		2.1	0.17	ug/Kg	✉	12/07/19 08:00	12/09/19 12:44	1
Ethylbenzene	ND		2.1	0.15	ug/Kg	✉	12/07/19 08:00	12/09/19 12:44	1

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# Client Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

**Client Sample ID: TP #3, 2-3**  
Date Collected: 12/05/19 09:30  
Date Received: 12/06/19 15:25

**Lab Sample ID: 480-163813-2**  
Matrix: Solid  
Percent Solids: 79.8

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		2.1	0.27	ug/Kg	⊗	12/07/19 08:00	12/09/19 12:44	1
Isopropylbenzene	ND		2.1	0.32	ug/Kg	⊗	12/07/19 08:00	12/09/19 12:44	1
Methyl acetate	ND		11	1.3	ug/Kg	⊗	12/07/19 08:00	12/09/19 12:44	1
Methyl tert-butyl ether	ND		2.1	0.21	ug/Kg	⊗	12/07/19 08:00	12/09/19 12:44	1
Methylcyclohexane	ND		2.1	0.32	ug/Kg	⊗	12/07/19 08:00	12/09/19 12:44	1
Methylene Chloride	ND		2.1	0.97	ug/Kg	⊗	12/07/19 08:00	12/09/19 12:44	1
Styrene	ND		2.1	0.11	ug/Kg	⊗	12/07/19 08:00	12/09/19 12:44	1
Tetrachloroethene	ND		2.1	0.28	ug/Kg	⊗	12/07/19 08:00	12/09/19 12:44	1
Toluene	ND		2.1	0.16	ug/Kg	⊗	12/07/19 08:00	12/09/19 12:44	1
trans-1,2-Dichloroethene	ND		2.1	0.22	ug/Kg	⊗	12/07/19 08:00	12/09/19 12:44	1
trans-1,3-Dichloropropene	ND		2.1	0.93	ug/Kg	⊗	12/07/19 08:00	12/09/19 12:44	1
Trichloroethene	ND		2.1	0.46	ug/Kg	⊗	12/07/19 08:00	12/09/19 12:44	1
Trichlorofluoromethane	ND		2.1	0.20	ug/Kg	⊗	12/07/19 08:00	12/09/19 12:44	1
Vinyl chloride	ND		2.1	0.26	ug/Kg	⊗	12/07/19 08:00	12/09/19 12:44	1
Xylenes, Total	ND		4.2	0.35	ug/Kg	⊗	12/07/19 08:00	12/09/19 12:44	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	99			71 - 125			12/07/19 08:00	12/09/19 12:44	1
1,2-Dichloroethane-d4 (Surr)	115			64 - 126			12/07/19 08:00	12/09/19 12:44	1
4-Bromofluorobenzene (Surr)	93			72 - 126			12/07/19 08:00	12/09/19 12:44	1
Dibromofluoromethane (Surr)	102			60 - 140			12/07/19 08:00	12/09/19 12:44	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		210	31	ug/Kg	⊗	12/09/19 15:01	12/10/19 17:24	1
bis (2-chloroisopropyl) ether	ND		210	42	ug/Kg	⊗	12/09/19 15:01	12/10/19 17:24	1
2,4,5-Trichlorophenol	ND		210	57	ug/Kg	⊗	12/09/19 15:01	12/10/19 17:24	1
2,4,6-Trichlorophenol	ND		210	42	ug/Kg	⊗	12/09/19 15:01	12/10/19 17:24	1
2,4-Dichlorophenol	ND		210	22	ug/Kg	⊗	12/09/19 15:01	12/10/19 17:24	1
2,4-Dimethylphenol	ND		210	51	ug/Kg	⊗	12/09/19 15:01	12/10/19 17:24	1
2,4-Dinitrophenol	ND		2000	970	ug/Kg	⊗	12/09/19 15:01	12/10/19 17:24	1
2,4-Dinitrotoluene	ND		210	43	ug/Kg	⊗	12/09/19 15:01	12/10/19 17:24	1
2,6-Dinitrotoluene	ND		210	25	ug/Kg	⊗	12/09/19 15:01	12/10/19 17:24	1
2-Chloronaphthalene	ND		210	35	ug/Kg	⊗	12/09/19 15:01	12/10/19 17:24	1
2-Chlorophenol	ND		410	38	ug/Kg	⊗	12/09/19 15:01	12/10/19 17:24	1
2-Methylphenol	ND		210	25	ug/Kg	⊗	12/09/19 15:01	12/10/19 17:24	1
<b>2-Methylnaphthalene</b>	<b>70</b>	<b>J</b>							
2-Nitroaniline	ND		410	31	ug/Kg	⊗	12/09/19 15:01	12/10/19 17:24	1
2-Nitrophenol	ND		210	59	ug/Kg	⊗	12/09/19 15:01	12/10/19 17:24	1
3,3'-Dichlorobenzidine	ND		410	250	ug/Kg	⊗	12/09/19 15:01	12/10/19 17:24	1
3-Nitroaniline	ND		410	58	ug/Kg	⊗	12/09/19 15:01	12/10/19 17:24	1
4,6-Dinitro-2-methylphenol	ND		410	210	ug/Kg	⊗	12/09/19 15:01	12/10/19 17:24	1
4-Bromophenyl phenyl ether	ND		210	30	ug/Kg	⊗	12/09/19 15:01	12/10/19 17:24	1
4-Chloro-3-methylphenol	ND		210	52	ug/Kg	⊗	12/09/19 15:01	12/10/19 17:24	1
4-Chloroaniline	ND		210	52	ug/Kg	⊗	12/09/19 15:01	12/10/19 17:24	1
4-Chlorophenyl phenyl ether	ND		210	26	ug/Kg	⊗	12/09/19 15:01	12/10/19 17:24	1
4-Methylphenol	ND		410	25	ug/Kg	⊗	12/09/19 15:01	12/10/19 17:24	1
4-Nitroaniline	ND		410	110	ug/Kg	⊗	12/09/19 15:01	12/10/19 17:24	1
4-Nitrophenol	ND		410	150	ug/Kg	⊗	12/09/19 15:01	12/10/19 17:24	1
Acenaphthene	ND		210	31	ug/Kg	⊗	12/09/19 15:01	12/10/19 17:24	1

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# Client Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

**Client Sample ID: TP #3, 2-3**

Date Collected: 12/05/19 09:30

Date Received: 12/06/19 15:25

**Lab Sample ID: 480-163813-2**

Matrix: Solid

Percent Solids: 79.8

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	170	J	210	27	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
Acetophenone	ND		210	28	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
Anthracene	130	J	210	52	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
Atrazine	ND		210	73	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
Benzaldehyde	ND		210	170	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
Benzo[a]anthracene	580		210	21	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
Benzo[a]pyrene	520		210	31	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
Benzo[b]fluoranthene	870		210	33	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
Benzo[g,h,i]perylene	410		210	22	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
Benzo[k]fluoranthene	350		210	27	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
Bis(2-chloroethoxy)methane	ND		210	44	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
Bis(2-chloroethyl)ether	ND		210	27	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
Bis(2-ethylhexyl) phthalate	ND		210	72	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
Butyl benzyl phthalate	ND		210	35	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
Caprolactam	ND		210	63	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
Carbazole	27	J	210	25	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
Chrysene	690		210	47	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
Dibenz(a,h)anthracene	130	J	210	37	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
Di-n-butyl phthalate	ND		210	36	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
Di-n-octyl phthalate	ND		210	25	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
Dibenzofuran	31	J	210	25	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
Diethyl phthalate	ND		210	27	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
Dimethyl phthalate	ND		210	25	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
Fluoranthene	910		210	22	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
Fluorene	ND		210	25	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
Hexachlorobenzene	ND		210	28	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
Hexachlorobutadiene	ND		210	31	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
Hexachlorocyclopentadiene	ND		210	28	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
Hexachloroethane	ND		210	27	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
Indeno[1,2,3-cd]pyrene	380		210	26	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
Isophorone	ND		210	44	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
N-Nitrosodi-n-propylamine	ND		210	36	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
N-Nitrosodiphenylamine	ND		210	170	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
Naphthalene	ND		210	27	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
Nitrobenzene	ND		210	23	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
Pentachlorophenol	ND		410	210	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
Phenanthrene	200	J	210	31	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
Phenol	ND		210	32	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
Pyrene	880		210	25	ug/Kg	✉	12/09/19 15:01	12/10/19 17:24	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Nitrobenzene-d5 (Surr)	92			53 - 120			12/09/19 15:01	12/10/19 17:24	1
Phenol-d5 (Surr)	81			54 - 120			12/09/19 15:01	12/10/19 17:24	1
p-Terphenyl-d14 (Surr)	109			79 - 130			12/09/19 15:01	12/10/19 17:24	1
2,4,6-Tribromophenol (Surr)	103			54 - 120			12/09/19 15:01	12/10/19 17:24	1
2-Fluorobiphenyl	99			60 - 120			12/09/19 15:01	12/10/19 17:24	1
2-Fluorophenol (Surr)	82			52 - 120			12/09/19 15:01	12/10/19 17:24	1

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# Client Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

**Client Sample ID: TP #3, 2-3**  
Date Collected: 12/05/19 09:30  
Date Received: 12/06/19 15:25

**Lab Sample ID: 480-163813-2**  
Matrix: Solid  
Percent Solids: 79.8

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.30	0.059	mg/Kg	⊗	12/09/19 07:45	12/10/19 12:04	1
PCB-1221	ND		0.30	0.059	mg/Kg	⊗	12/09/19 07:45	12/10/19 12:04	1
PCB-1232	ND		0.30	0.059	mg/Kg	⊗	12/09/19 07:45	12/10/19 12:04	1
PCB-1242	ND		0.30	0.059	mg/Kg	⊗	12/09/19 07:45	12/10/19 12:04	1
PCB-1248	ND		0.30	0.059	mg/Kg	⊗	12/09/19 07:45	12/10/19 12:04	1
PCB-1254	ND		0.30	0.14	mg/Kg	⊗	12/09/19 07:45	12/10/19 12:04	1
PCB-1260	ND		0.30	0.14	mg/Kg	⊗	12/09/19 07:45	12/10/19 12:04	1
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tetrachloro-m-xylene		103		60 - 154			12/09/19 07:45	12/10/19 12:04	1
Tetrachloro-m-xylene		91		60 - 154			12/09/19 07:45	12/10/19 12:04	1
DCB Decachlorobiphenyl		101		65 - 174			12/09/19 07:45	12/10/19 12:04	1
DCB Decachlorobiphenyl		78		65 - 174			12/09/19 07:45	12/10/19 12:04	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	35.8		2.5	0.49	mg/Kg	⊗	12/10/19 14:13	12/11/19 18:52	1
Barium	69.5		0.62	0.14	mg/Kg	⊗	12/10/19 14:13	12/11/19 18:52	1
Cadmium	ND		0.25	0.037	mg/Kg	⊗	12/10/19 14:13	12/11/19 18:52	1
Chromium	10.2		0.62	0.25	mg/Kg	⊗	12/10/19 14:13	12/11/19 18:52	1
Lead	50.0		1.2	0.30	mg/Kg	⊗	12/10/19 14:13	12/11/19 18:52	1
Selenium	0.74 J		4.9	0.49	mg/Kg	⊗	12/10/19 14:13	12/11/19 18:52	1
Silver	ND		0.74	0.25	mg/Kg	⊗	12/10/19 14:13	12/11/19 18:52	1

## Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.52		0.025	0.010	ug/Kg	⊗	12/15/19 14:01	12/15/19 15:02	1

**Client Sample ID: TP #5, 1-2**

Date Collected: 12/05/19 10:10

Date Received: 12/06/19 15:25

**Lab Sample ID: 480-163813-3**

Matrix: Solid

Percent Solids: 81.6

## Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	F1	2.1	0.15	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
1,1,2,2-Tetrachloroethane	ND	F1	2.1	0.35	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
1,1,2-Trichloroethane	ND	F1	2.1	0.28	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.1	0.49	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
1,1-Dichloroethane	ND	F1	2.1	0.26	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
1,1-Dichloroethene	ND	F1	2.1	0.26	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
1,2,4-Trichlorobenzene	ND	F1	2.1	0.13	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
1,2-Dibromo-3-Chloropropane	ND	F1	2.1	1.1	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
1,2-Dichlorobenzene	ND	F1	2.1	0.17	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
1,2-Dichloroethane	ND	F1	2.1	0.11	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
1,2-Dichloropropane	ND	F1	2.1	1.1	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
1,3-Dichlorobenzene	ND	F1	2.1	0.11	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
1,4-Dichlorobenzene	ND	F1	2.1	0.30	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
<b>2-Butanone (MEK)</b>	<b>2.0 J</b>		11	0.78	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
2-Hexanone	ND	F1	11	1.1	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
4-Methyl-2-pentanone (MIBK)	ND		11	0.70	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
<b>Acetone</b>	<b>15</b>		11	1.8	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1

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# Client Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

**Client Sample ID: TP #5, 1-2**  
Date Collected: 12/05/19 10:10  
Date Received: 12/06/19 15:25

**Lab Sample ID: 480-163813-3**  
Matrix: Solid  
Percent Solids: 81.6

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	F1	2.1	0.10	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
Bromodichloromethane	ND	F1	2.1	0.29	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
Bromoform	ND	F1	2.1	1.1	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
Bromomethane	ND		2.1	0.19	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
Carbon disulfide	ND	F1	2.1	1.1	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
Carbon tetrachloride	ND	F1	2.1	0.21	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
Chlorobenzene	ND	F1	2.1	0.28	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
Dibromochloromethane	ND	F1	2.1	0.27	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
Chloroethane	ND		2.1	0.48	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
Chloroform	ND	F1	2.1	0.13	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
Chloromethane	ND		2.1	0.13	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
cis-1,2-Dichloroethene	ND	F1	2.1	0.27	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
cis-1,3-Dichloropropene	ND	F1	2.1	0.31	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
Cyclohexane	ND	F1	2.1	0.30	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
Dichlorodifluoromethane	ND		2.1	0.18	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
Ethylbenzene	ND	F1	2.1	0.15	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
1,2-Dibromoethane	ND	F1	2.1	0.27	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
Isopropylbenzene	ND	F1	2.1	0.32	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
Methyl acetate	ND		11	1.3	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
Methyl tert-butyl ether	ND		2.1	0.21	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
Methylcyclohexane	ND	F1	2.1	0.32	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
Methylene Chloride	ND	F1	2.1	0.98	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
Styrene	ND	F1	2.1	0.11	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
Tetrachloroethene	ND	F1	2.1	0.29	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
Toluene	ND	F1	2.1	0.16	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
trans-1,2-Dichloroethene	ND	F1	2.1	0.22	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
trans-1,3-Dichloropropene	ND	F1	2.1	0.94	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
Trichloroethene	ND	F1	2.1	0.47	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
Trichlorofluoromethane	ND	F1	2.1	0.20	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
Vinyl chloride	ND		2.1	0.26	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
Xylenes, Total	ND	F1	4.3	0.36	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		71 - 125				12/07/19 08:00	12/09/19 13:10	1
1,2-Dichloroethane-d4 (Surr)	110		64 - 126				12/07/19 08:00	12/09/19 13:10	1
4-Bromofluorobenzene (Surr)	85		72 - 126				12/07/19 08:00	12/09/19 13:10	1
Dibromofluoromethane (Surr)	103		60 - 140				12/07/19 08:00	12/09/19 13:10	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		1000	150	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
bis (2-chloroisopropyl) ether	ND	F2	1000	210	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
2,4,5-Trichlorophenol	ND		1000	280	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
2,4,6-Trichlorophenol	ND		1000	210	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
2,4-Dichlorophenol	ND		1000	110	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
2,4-Dimethylphenol	ND		1000	250	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
2,4-Dinitrophenol	ND		10000	4700	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
2,4-Dinitrotoluene	ND		1000	210	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
2,6-Dinitrotoluene	ND		1000	120	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
2-Chloronaphthalene	ND		1000	170	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5

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# Client Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

**Client Sample ID: TP #5, 1-2**  
**Date Collected: 12/05/19 10:10**  
**Date Received: 12/06/19 15:25**

**Lab Sample ID: 480-163813-3**  
**Matrix: Solid**  
**Percent Solids: 81.6**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		2000	190	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
2-Methylphenol	ND		1000	120	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
2-Methylnaphthalene	ND		1000	210	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
2-Nitroaniline	ND		2000	150	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
2-Nitrophenol	ND	F2	1000	290	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
3,3'-Dichlorobenzidine	ND		2000	1200	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
3-Nitroaniline	ND		2000	280	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
4,6-Dinitro-2-methylphenol	ND		2000	1000	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
4-Bromophenyl phenyl ether	ND		1000	140	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
4-Chloro-3-methylphenol	ND		1000	250	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
4-Chloroaniline	ND		1000	250	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
4-Chlorophenyl phenyl ether	ND		1000	130	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
4-Methylphenol	ND		2000	120	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
4-Nitroaniline	ND		2000	540	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
4-Nitrophenol	ND		2000	720	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
Acenaphthene	ND		1000	150	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
Acenaphthylene	ND		1000	130	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
Acetophenone	ND	F2	1000	140	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
Anthracene	ND	F1 F2	1000	250	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
Atrazine	ND		1000	360	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
Benzaldehyde	ND		1000	810	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
<b>Benzo[a]anthracene</b>	<b>1200</b>	<b>F1 F2</b>	1000	100	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
<b>Benzo[a]pyrene</b>	<b>970</b>	<b>J F1 F2</b>	1000	150	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
<b>Benzo[b]fluoranthene</b>	<b>1200</b>	<b>F1 F2</b>	1000	160	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
<b>Benzo[g,h,i]perylene</b>	<b>600</b>	<b>J F2</b>	1000	110	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
<b>Benzo[k]fluoranthene</b>	<b>500</b>	<b>J F2</b>	1000	130	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
Bis(2-chloroethoxy)methane	ND	F2	1000	220	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
Bis(2-chloroethyl)ether	ND	F2	1000	130	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
Bis(2-ethylhexyl) phthalate	ND		1000	350	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
Butyl benzyl phthalate	ND		1000	170	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
Caprolactam	ND		1000	310	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
Carbazole	ND		1000	120	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
<b>Chrysene</b>	<b>1100</b>	<b>F1 F2</b>	1000	230	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
<b>Dibenz(a,h)anthracene</b>	<b>220</b>	<b>J F2</b>	1000	180	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
Di-n-butyl phthalate	ND		1000	170	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
Di-n-octyl phthalate	ND		1000	120	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
Dibenzofuran	ND		1000	120	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
Diethyl phthalate	ND		1000	130	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
Dimethyl phthalate	ND		1000	120	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
<b>Fluoranthene</b>	<b>2200</b>	<b>F1 F2</b>	1000	110	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
Fluorene	ND		1000	120	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
Hexachlorobenzene	ND		1000	140	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
Hexachlorobutadiene	ND		1000	150	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
Hexachlorocyclopentadiene	ND		1000	140	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
Hexachloroethane	ND		1000	130	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
<b>Indeno[1,2,3-cd]pyrene</b>	<b>500</b>	<b>J F1 F2</b>	1000	130	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
Isophorone	ND		1000	220	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
N-Nitrosodi-n-propylamine	ND		1000	170	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
N-Nitrosodiphenylamine	ND		1000	830	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5

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# Client Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

**Client Sample ID: TP #5, 1-2**

Date Collected: 12/05/19 10:10

Date Received: 12/06/19 15:25

**Lab Sample ID: 480-163813-3**

Matrix: Solid

Percent Solids: 81.6

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		1000	130	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
Nitrobenzene	ND		1000	110	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
Pentachlorophenol	ND		2000	1000	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
<b>Phenanthrene</b>	<b>770</b>	<b>J F1 F2</b>	1000	150	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
Phenol	ND		1000	160	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5
<b>Pyrene</b>	<b>2000</b>	<b>F1 F2</b>	1000	120	ug/Kg	⊗	12/09/19 15:01	12/10/19 16:34	5

## Surrogate

	%Recovery	Qualifier	Limits
Nitrobenzene-d5 (Surr)	81		53 - 120
Phenol-d5 (Surr)	72		54 - 120
p-Terphenyl-d14 (Surr)	100		79 - 130
2,4,6-Tribromophenol (Surr)	97		54 - 120
2-Fluorobiphenyl	89		60 - 120
2-Fluorophenol (Surr)	70		52 - 120

	Prepared	Analyzed	Dil Fac
12/09/19 15:01	12/10/19 16:34	5	
12/09/19 15:01	12/10/19 16:34	5	
12/09/19 15:01	12/10/19 16:34	5	
12/09/19 15:01	12/10/19 16:34	5	
12/09/19 15:01	12/10/19 16:34	5	
12/09/19 15:01	12/10/19 16:34	5	

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.046	mg/Kg	⊗	12/09/19 07:45	12/10/19 10:47	1
PCB-1221	ND		0.24	0.046	mg/Kg	⊗	12/09/19 07:45	12/10/19 10:47	1
PCB-1232	ND		0.24	0.046	mg/Kg	⊗	12/09/19 07:45	12/10/19 10:47	1
PCB-1242	ND		0.24	0.046	mg/Kg	⊗	12/09/19 07:45	12/10/19 10:47	1
PCB-1248	ND		0.24	0.046	mg/Kg	⊗	12/09/19 07:45	12/10/19 10:47	1
PCB-1254	ND		0.24	0.11	mg/Kg	⊗	12/09/19 07:45	12/10/19 10:47	1
PCB-1260	ND		0.24	0.11	mg/Kg	⊗	12/09/19 07:45	12/10/19 10:47	1

## Surrogate

	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene	94		60 - 154
Tetrachloro-m-xylene	82		60 - 154
DCB Decachlorobiphenyl	94		65 - 174
DCB Decachlorobiphenyl	76		65 - 174

	Prepared	Analyzed	Dil Fac
12/09/19 07:45	12/10/19 10:47	1	
12/09/19 07:45	12/10/19 10:47	1	
12/09/19 07:45	12/10/19 10:47	1	
12/09/19 07:45	12/10/19 10:47	1	

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>19.2</b>		2.5	0.51	mg/Kg	⊗	12/10/19 14:13	12/11/19 18:56	1
<b>Barium</b>	<b>109</b>	<b>F1 F2</b>	0.63	0.14	mg/Kg	⊗	12/10/19 14:13	12/11/19 18:56	1
<b>Cadmium</b>	<b>0.062</b>	<b>J</b>	0.25	0.038	mg/Kg	⊗	12/10/19 14:13	12/11/19 18:56	1
<b>Chromium</b>	<b>12.3</b>		0.63	0.25	mg/Kg	⊗	12/10/19 14:13	12/11/19 18:56	1
<b>Lead</b>	<b>2340</b>	<b>F2</b>	1.3	0.30	mg/Kg	⊗	12/10/19 14:13	12/11/19 18:56	1
<b>Selenium</b>	<b>1.1</b>	<b>J</b>	5.1	0.51	mg/Kg	⊗	12/10/19 14:13	12/11/19 18:56	1
Silver	ND		0.76	0.25	mg/Kg	⊗	12/10/19 14:13	12/11/19 18:56	1

## Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.45</b>	<b>F1</b>	0.025	0.010	mg/Kg	⊗	12/15/19 14:01	12/15/19 15:04	1

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# Client Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

**Client Sample ID: TP #6, 3-4**  
**Date Collected: 12/05/19 10:40**  
**Date Received: 12/06/19 15:25**

**Lab Sample ID: 480-163813-4**  
**Matrix: Solid**  
**Percent Solids: 87.6**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.4	0.10	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.23	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
1,1,2-Trichloroethane	ND		1.4	0.18	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.4	0.32	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
1,1-Dichloroethane	ND		1.4	0.17	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
1,1-Dichloroethene	ND		1.4	0.17	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
1,2,4-Trichlorobenzene	ND		1.4	0.086	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
1,2-Dibromo-3-Chloropropane	ND		1.4	0.71	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
1,2-Dichlorobenzene	ND		1.4	0.11	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
1,2-Dichloroethane	ND		1.4	0.071	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
1,2-Dichloropropane	ND		1.4	0.71	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
1,3-Dichlorobenzene	ND		1.4	0.073	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
1,4-Dichlorobenzene	ND		1.4	0.20	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
<b>2-Butanone (MEK)</b>	<b>1.4 J</b>		7.1	0.52	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
2-Hexanone	ND		7.1	0.71	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
4-Methyl-2-pentanone (MIBK)	ND		7.1	0.46	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
<b>Acetone</b>	<b>1.7 J</b>		7.1	1.2	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
Benzene	ND		1.4	0.069	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
Bromodichloromethane	ND		1.4	0.19	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
Bromoform	ND		1.4	0.71	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
Bromomethane	ND		1.4	0.13	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
Carbon disulfide	ND		1.4	0.71	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
Carbon tetrachloride	ND		1.4	0.14	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
Chlorobenzene	ND		1.4	0.19	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
Dibromochloromethane	ND		1.4	0.18	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
Chloroethane	ND		1.4	0.32	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
Chloroform	ND		1.4	0.087	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
Chloromethane	ND		1.4	0.085	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
cis-1,2-Dichloroethene	ND		1.4	0.18	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
cis-1,3-Dichloropropene	ND		1.4	0.20	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
Cyclohexane	ND		1.4	0.20	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
Dichlorodifluoromethane	ND		1.4	0.12	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
Ethylbenzene	ND		1.4	0.098	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
1,2-Dibromoethane	ND		1.4	0.18	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
Isopropylbenzene	ND		1.4	0.21	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
Methyl acetate	ND		7.1	0.85	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
Methyl tert-butyl ether	ND		1.4	0.14	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
Methylcyclohexane	ND		1.4	0.22	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
<b>Methylene Chloride</b>	<b>0.95 J</b>		1.4	0.65	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
Styrene	ND		1.4	0.071	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
Tetrachloroethene	ND		1.4	0.19	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
Toluene	ND		1.4	0.11	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
trans-1,2-Dichloroethene	ND		1.4	0.15	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
trans-1,3-Dichloropropene	ND		1.4	0.62	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
Trichloroethene	ND		1.4	0.31	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
Trichlorofluoromethane	ND		1.4	0.13	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
Vinyl chloride	ND		1.4	0.17	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1
Xylenes, Total	ND		2.8	0.24	ug/Kg	⊗	12/07/19 08:00	12/09/19 13:36	1

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# Client Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

**Client Sample ID: TP #6, 3-4**

Date Collected: 12/05/19 10:40

Date Received: 12/06/19 15:25

**Lab Sample ID: 480-163813-4**

Matrix: Solid

Percent Solids: 87.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		71 - 125	12/07/19 08:00	12/09/19 13:36	1
1,2-Dichloroethane-d4 (Surr)	110		64 - 126	12/07/19 08:00	12/09/19 13:36	1
4-Bromofluorobenzene (Surr)	93		72 - 126	12/07/19 08:00	12/09/19 13:36	1
Dibromofluoromethane (Surr)	102		60 - 140	12/07/19 08:00	12/09/19 13:36	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		190	28	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
bis (2-chloroisopropyl) ether	ND		190	38	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
2,4,5-Trichlorophenol	ND		190	52	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
2,4,6-Trichlorophenol	ND		190	38	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
2,4-Dichlorophenol	ND		190	20	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
2,4-Dimethylphenol	ND		190	46	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
2,4-Dinitrophenol	ND		1900	880	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
2,4-Dinitrotoluene	ND		190	39	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
2,6-Dinitrotoluene	ND		190	22	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
2-Chloronaphthalene	ND		190	31	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
2-Chlorophenol	ND		370	35	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
2-Methylphenol	ND		190	22	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
<b>2-Methylnaphthalene</b>	<b>48 J</b>		190	38	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
2-Nitroaniline	ND		370	28	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
2-Nitrophenol	ND		190	54	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
3,3'-Dichlorobenzidine	ND		370	220	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
3-Nitroaniline	ND		370	53	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
4,6-Dinitro-2-methylphenol	ND		370	190	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
4-Bromophenyl phenyl ether	ND		190	27	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
4-Chloro-3-methylphenol	ND		190	47	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
4-Chloroaniline	ND		190	47	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
4-Chlorophenyl phenyl ether	ND		190	24	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
4-Methylphenol	ND		370	22	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
4-Nitroaniline	ND		370	100	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
4-Nitrophenol	ND		370	130	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
<b>Acenaphthene</b>	<b>46 J</b>		190	28	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
Acenaphthylene	ND		190	25	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
Acetophenone	ND		190	26	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
<b>Anthracene</b>	<b>99 J</b>		190	47	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
Atrazine	ND		190	66	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
Benzaldehyde	ND		190	150	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
<b>Benzo[a]anthracene</b>	<b>420</b>		190	19	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
<b>Benzo[a]pyrene</b>	<b>460</b>		190	28	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
<b>Benzo[b]fluoranthene</b>	<b>510</b>		190	30	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
<b>Benzo[g,h,i]perylene</b>	<b>310</b>		190	20	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
<b>Benzo[k]fluoranthene</b>	<b>240</b>		190	25	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
Bis(2-chloroethoxy)methane	ND		190	40	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
Bis(2-chloroethyl)ether	ND		190	25	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
Bis(2-ethylhexyl) phthalate	ND		190	65	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
Butyl benzyl phthalate	ND		190	31	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
Caprolactam	ND		190	57	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
<b>Carbazole</b>	<b>76 J</b>		190	22	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
<b>Chrysene</b>	<b>470</b>		190	43	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1

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# Client Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

**Client Sample ID: TP #6, 3-4**  
Date Collected: 12/05/19 10:40  
Date Received: 12/06/19 15:25

**Lab Sample ID: 480-163813-4**  
Matrix: Solid  
Percent Solids: 87.6

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	97	J	190	34	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
Di-n-butyl phthalate	ND		190	32	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
Di-n-octyl phthalate	ND		190	22	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
<b>Dibenzofuran</b>	<b>29</b>	<b>J</b>	190	22	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
Diethyl phthalate	ND		190	25	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
Dimethyl phthalate	ND		190	22	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
<b>Fluoranthene</b>	<b>760</b>		190	20	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
<b>Fluorene</b>	<b>31</b>	<b>J</b>	190	22	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
Hexachlorobenzene	ND		190	26	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
Hexachlorobutadiene	ND		190	28	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
Hexachlorocyclopentadiene	ND		190	26	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
Hexachloroethane	ND		190	25	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>290</b>		190	24	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
Isophorone	ND		190	40	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
N-Nitrosodi-n-propylamine	ND		190	32	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
N-Nitrosodiphenylamine	ND		190	150	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
<b>Naphthalene</b>	<b>30</b>	<b>J</b>	190	25	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
Nitrobenzene	ND		190	21	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
Pentachlorophenol	ND		370	190	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
<b>Phenanthrene</b>	<b>490</b>		190	28	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
Phenol	ND		190	29	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
<b>Pyrene</b>	<b>720</b>		190	22	ug/Kg	✉	12/09/19 15:01	12/10/19 17:49	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Nitrobenzene-d5 (Surr)	80			53 - 120			12/09/19 15:01	12/10/19 17:49	1
Phenol-d5 (Surr)	72			54 - 120			12/09/19 15:01	12/10/19 17:49	1
p-Terphenyl-d14 (Surr)	99			79 - 130			12/09/19 15:01	12/10/19 17:49	1
2,4,6-Tribromophenol (Surr)	104			54 - 120			12/09/19 15:01	12/10/19 17:49	1
2-Fluorobiphenyl	89			60 - 120			12/09/19 15:01	12/10/19 17:49	1
2-Fluorophenol (Surr)	69			52 - 120			12/09/19 15:01	12/10/19 17:49	1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.28	0.055	mg/Kg	✉	12/09/19 07:45	12/10/19 12:17	1
PCB-1221	ND		0.28	0.055	mg/Kg	✉	12/09/19 07:45	12/10/19 12:17	1
PCB-1232	ND		0.28	0.055	mg/Kg	✉	12/09/19 07:45	12/10/19 12:17	1
PCB-1242	ND		0.28	0.055	mg/Kg	✉	12/09/19 07:45	12/10/19 12:17	1
PCB-1248	ND		0.28	0.055	mg/Kg	✉	12/09/19 07:45	12/10/19 12:17	1
PCB-1254	ND		0.28	0.13	mg/Kg	✉	12/09/19 07:45	12/10/19 12:17	1
PCB-1260	ND		0.28	0.13	mg/Kg	✉	12/09/19 07:45	12/10/19 12:17	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tetrachloro-m-xylene	101			60 - 154			12/09/19 07:45	12/10/19 12:17	1
Tetrachloro-m-xylene	87			60 - 154			12/09/19 07:45	12/10/19 12:17	1
DCB Decachlorobiphenyl	98			65 - 174			12/09/19 07:45	12/10/19 12:17	1
DCB Decachlorobiphenyl	77			65 - 174			12/09/19 07:45	12/10/19 12:17	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.9		2.3	0.47	mg/Kg	✉	12/10/19 14:13	12/11/19 19:25	1

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# Client Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

**Client Sample ID: TP #6, 3-4**

Date Collected: 12/05/19 10:40

Date Received: 12/06/19 15:25

**Lab Sample ID: 480-163813-4**

Matrix: Solid

Percent Solids: 87.6

**Method: 6010C - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	50.7		0.58	0.13	mg/Kg	⊗	12/10/19 14:13	12/11/19 19:25	1
Cadmium	0.18 J		0.23	0.035	mg/Kg	⊗	12/10/19 14:13	12/11/19 19:25	1
Chromium	12.7		0.58	0.23	mg/Kg	⊗	12/10/19 14:13	12/11/19 19:25	1
Lead	16.0		1.2	0.28	mg/Kg	⊗	12/10/19 14:13	12/11/19 19:25	1
Selenium	ND		4.7	0.47	mg/Kg	⊗	12/10/19 14:13	12/11/19 19:25	1
Silver	ND		0.70	0.23	mg/Kg	⊗	12/10/19 14:13	12/11/19 19:25	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.23		0.021	0.0086	mg/Kg	⊗	12/15/19 14:01	12/15/19 15:09	1

**Client Sample ID: TP #9, 3**

Date Collected: 12/05/19 12:30

Date Received: 12/06/19 15:25

**Lab Sample ID: 480-163813-5**

Matrix: Solid

Percent Solids: 79.6

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.2	0.16	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
1,1,2,2-Tetrachloroethane	ND		2.2	0.36	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
1,1,2-Trichloroethane	ND		2.2	0.29	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.2	0.51	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
1,1-Dichloroethane	ND		2.2	0.27	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
1,1-Dichloroethene	ND		2.2	0.27	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
1,2,4-Trichlorobenzene	ND		2.2	0.14	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
1,2-Dibromo-3-Chloropropane	ND		2.2	1.1	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
1,2-Dichlorobenzene	ND		2.2	0.17	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
1,2-Dichloroethane	ND		2.2	0.11	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
1,2-Dichloropropane	ND		2.2	1.1	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
1,3-Dichlorobenzene	ND		2.2	0.11	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
1,4-Dichlorobenzene	ND		2.2	0.31	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
<b>2-Butanone (MEK)</b>	<b>5.3 J</b>		11	0.82	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
2-Hexanone	ND		11	1.1	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
4-Methyl-2-pentanone (MIBK)	ND		11	0.73	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
Acetone	ND		11	1.9	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
Benzene	ND		2.2	0.11	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
Bromodichloromethane	ND		2.2	0.30	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
Bromoform	ND		2.2	1.1	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
Bromomethane	ND		2.2	0.20	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
Carbon disulfide	ND		2.2	1.1	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
Carbon tetrachloride	ND		2.2	0.22	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
Chlorobenzene	ND		2.2	0.30	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
Dibromochloromethane	ND		2.2	0.29	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
Chloroethane	ND		2.2	0.51	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
Chloroform	ND		2.2	0.14	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
Chloromethane	ND		2.2	0.13	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
cis-1,2-Dichloroethene	ND		2.2	0.29	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
cis-1,3-Dichloropropene	ND		2.2	0.32	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
Cyclohexane	ND		2.2	0.31	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
Dichlorodifluoromethane	ND		2.2	0.18	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
Ethylbenzene	ND		2.2	0.15	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1

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# Client Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

**Client Sample ID: TP #9, 3**  
**Date Collected: 12/05/19 12:30**  
**Date Received: 12/06/19 15:25**

**Lab Sample ID: 480-163813-5**  
**Matrix: Solid**  
**Percent Solids: 79.6**

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		2.2	0.29	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
Isopropylbenzene	ND		2.2	0.34	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
Methyl acetate	ND		11	1.3	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
Methyl tert-butyl ether	ND		2.2	0.22	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
Methylcyclohexane	ND		2.2	0.34	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
Methylene Chloride	ND		2.2	1.0	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
Styrene	ND		2.2	0.11	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
Tetrachloroethene	ND		2.2	0.30	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
Toluene	ND		2.2	0.17	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
trans-1,2-Dichloroethene	ND		2.2	0.23	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
trans-1,3-Dichloropropene	ND		2.2	0.98	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
Trichloroethene	ND		2.2	0.49	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
Trichlorofluoromethane	ND		2.2	0.21	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
Vinyl chloride	ND		2.2	0.27	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
Xylenes, Total	ND		4.5	0.38	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:01	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	94			71 - 125			12/07/19 08:00	12/09/19 14:01	1
1,2-Dichloroethane-d4 (Surr)	114			64 - 126			12/07/19 08:00	12/09/19 14:01	1
4-Bromofluorobenzene (Surr)	90			72 - 126			12/07/19 08:00	12/09/19 14:01	1
Dibromofluoromethane (Surr)	103			60 - 140			12/07/19 08:00	12/09/19 14:01	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		2100	310	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
bis (2-chloroisopropyl) ether	ND		2100	420	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
2,4,5-Trichlorophenol	ND		2100	570	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
2,4,6-Trichlorophenol	ND		2100	420	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
2,4-Dichlorophenol	ND		2100	220	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
2,4-Dimethylphenol	ND		2100	510	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
2,4-Dinitrophenol	ND		21000	9800	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
2,4-Dinitrotoluene	ND		2100	440	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
2,6-Dinitrotoluene	ND		2100	250	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
2-Chloronaphthalene	ND		2100	350	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
2-Chlorophenol	ND		4100	390	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
2-Methylphenol	ND		2100	250	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
2-Methylnaphthalene	ND		2100	420	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
2-Nitroaniline	ND		4100	310	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
2-Nitrophenol	ND		2100	600	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
3,3'-Dichlorobenzidine	ND		4100	2500	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
3-Nitroaniline	ND		4100	580	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
4,6-Dinitro-2-methylphenol	ND		4100	2100	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
4-Bromophenyl phenyl ether	ND		2100	300	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
4-Chloro-3-methylphenol	ND		2100	520	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
4-Chloroaniline	ND		2100	520	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
4-Chlorophenyl phenyl ether	ND		2100	260	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
4-Methylphenol	ND		4100	250	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
4-Nitroaniline	ND		4100	1100	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
4-Nitrophenol	ND		4100	1500	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
Acenaphthene	ND		2100	310	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10

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# Client Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

**Client Sample ID: TP #9, 3**  
**Date Collected: 12/05/19 12:30**  
**Date Received: 12/06/19 15:25**

**Lab Sample ID: 480-163813-5**  
**Matrix: Solid**  
**Percent Solids: 79.6**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	ND		2100	270	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
Acetophenone	ND		2100	290	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
Anthracene	ND		2100	520	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
Atrazine	ND		2100	730	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
Benzaldehyde	ND		2100	1700	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
Benzo[a]anthracene	ND		2100	210	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
Benzo[a]pyrene	ND		2100	310	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
Benzo[b]fluoranthene	ND		2100	340	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
<b>Benzo[g,h,i]perylene</b>	<b>230</b>	<b>J</b>	2100	220	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
Benzo[k]fluoranthene	ND		2100	270	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
Bis(2-chloroethoxy)methane	ND		2100	450	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
Bis(2-chloroethyl)ether	ND		2100	270	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
Bis(2-ethylhexyl) phthalate	ND		2100	720	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
Butyl benzyl phthalate	ND		2100	350	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
Caprolactam	ND		2100	630	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
Carbazole	ND		2100	250	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
Chrysene	ND		2100	470	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
Dibenz(a,h)anthracene	ND		2100	370	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
Di-n-butyl phthalate	ND		2100	360	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
Di-n-octyl phthalate	ND		2100	250	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
Dibenzofuran	ND		2100	250	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
Diethyl phthalate	ND		2100	270	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
Dimethyl phthalate	ND		2100	250	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
Fluoranthene	ND		2100	220	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
Fluorene	ND		2100	250	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
Hexachlorobenzene	ND		2100	290	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
Hexachlorobutadiene	ND		2100	310	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
Hexachlorocyclopentadiene	ND		2100	290	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
Hexachloroethane	ND		2100	270	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
Indeno[1,2,3-cd]pyrene	ND		2100	260	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
Isophorone	ND		2100	450	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
N-Nitrosodi-n-propylamine	ND		2100	360	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
N-Nitrosodiphenylamine	ND		2100	1700	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
Naphthalene	ND		2100	270	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
Nitrobenzene	ND		2100	240	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
Pentachlorophenol	ND		4100	2100	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
Phenanthrene	ND		2100	310	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
Phenol	ND		2100	320	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
Pyrene	ND		2100	250	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:14	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Nitrobenzene-d5 (Surr)	82		53 - 120			12/09/19 15:01	12/10/19 18:14	10	
Phenol-d5 (Surr)	76		54 - 120			12/09/19 15:01	12/10/19 18:14	10	
p-Terphenyl-d14 (Surr)	102		79 - 130			12/09/19 15:01	12/10/19 18:14	10	
2,4,6-Tribromophenol (Surr)	111		54 - 120			12/09/19 15:01	12/10/19 18:14	10	
2-Fluorobiphenyl	91		60 - 120			12/09/19 15:01	12/10/19 18:14	10	
2-Fluorophenol (Surr)	74		52 - 120			12/09/19 15:01	12/10/19 18:14	10	

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# Client Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

**Client Sample ID: TP #9, 3**  
Date Collected: 12/05/19 12:30  
Date Received: 12/06/19 15:25

**Lab Sample ID: 480-163813-5**  
Matrix: Solid  
Percent Solids: 79.6

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.049	mg/Kg	⊗	12/09/19 07:45	12/10/19 12:30	1
PCB-1221	ND		0.25	0.049	mg/Kg	⊗	12/09/19 07:45	12/10/19 12:30	1
PCB-1232	ND		0.25	0.049	mg/Kg	⊗	12/09/19 07:45	12/10/19 12:30	1
PCB-1242	ND		0.25	0.049	mg/Kg	⊗	12/09/19 07:45	12/10/19 12:30	1
PCB-1248	ND		0.25	0.049	mg/Kg	⊗	12/09/19 07:45	12/10/19 12:30	1
<b>PCB-1254</b>	<b>0.21 J</b>		0.25	0.12	mg/Kg	⊗	12/09/19 07:45	12/10/19 12:30	1
PCB-1260	ND		0.25	0.12	mg/Kg	⊗	12/09/19 07:45	12/10/19 12:30	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tetrachloro-m-xylene	99			60 - 154			12/09/19 07:45	12/10/19 12:30	1
Tetrachloro-m-xylene	88			60 - 154			12/09/19 07:45	12/10/19 12:30	1
DCB Decachlorobiphenyl	95			65 - 174			12/09/19 07:45	12/10/19 12:30	1
DCB Decachlorobiphenyl	78			65 - 174			12/09/19 07:45	12/10/19 12:30	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	73.8		2.6	0.52	mg/Kg	⊗	12/10/19 14:13	12/11/19 19:28	1
Barium	115		0.65	0.14	mg/Kg	⊗	12/10/19 14:13	12/11/19 19:28	1
Cadmium	0.79		0.26	0.039	mg/Kg	⊗	12/10/19 14:13	12/11/19 19:28	1
Chromium	16.4		0.65	0.26	mg/Kg	⊗	12/10/19 14:13	12/11/19 19:28	1
Lead	270		1.3	0.31	mg/Kg	⊗	12/10/19 14:13	12/11/19 19:28	1
Selenium	0.82 J		5.2	0.52	mg/Kg	⊗	12/10/19 14:13	12/11/19 19:28	1
Silver	ND		0.77	0.26	mg/Kg	⊗	12/10/19 14:13	12/11/19 19:28	1

## Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.25		0.025	0.010	ug/Kg	⊗	12/15/19 14:01	12/15/19 15:10	1

**Client Sample ID: TP #1, 1-2**

Date Collected: 12/05/19 08:04  
Date Received: 12/06/19 15:25

**Lab Sample ID: 480-163813-6**

Matrix: Solid

Percent Solids: 82.8

## Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.4	0.10	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.23	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
1,1,2-Trichloroethane	ND		1.4	0.18	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.4	0.32	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
1,1-Dichloroethane	ND		1.4	0.17	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
1,1-Dichloroethene	ND		1.4	0.17	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
1,2,4-Trichlorobenzene	ND		1.4	0.085	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
1,2-Dibromo-3-Chloropropane	ND		1.4	0.70	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
1,2-Dichlorobenzene	ND		1.4	0.11	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
1,2-Dichloroethane	ND		1.4	0.070	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
1,2-Dichloropropane	ND		1.4	0.70	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
1,3-Dichlorobenzene	ND		1.4	0.072	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
1,4-Dichlorobenzene	ND		1.4	0.20	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
2-Butanone (MEK)	ND		7.0	0.51	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
2-Hexanone	ND		7.0	0.70	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
4-Methyl-2-pentanone (MIBK)	ND		7.0	0.46	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
<b>Acetone</b>	<b>1.8 J</b>		7.0	1.2	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1

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# Client Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

**Client Sample ID: TP #1, 1-2**

Date Collected: 12/05/19 08:04

Date Received: 12/06/19 15:25

**Lab Sample ID: 480-163813-6**

Matrix: Solid

Percent Solids: 82.8

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.4	0.068	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
Bromodichloromethane	ND		1.4	0.19	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
Bromoform	ND		1.4	0.70	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
Bromomethane	ND		1.4	0.13	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
Carbon disulfide	ND		1.4	0.70	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
Carbon tetrachloride	ND		1.4	0.14	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
Chlorobenzene	ND		1.4	0.18	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
Dibromochloromethane	ND		1.4	0.18	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
Chloroethane	ND		1.4	0.32	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
Chloroform	ND		1.4	0.086	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
Chloromethane	ND		1.4	0.084	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
cis-1,2-Dichloroethene	ND		1.4	0.18	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
cis-1,3-Dichloropropene	ND		1.4	0.20	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
Cyclohexane	ND		1.4	0.20	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
Dichlorodifluoromethane	ND		1.4	0.12	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
Ethylbenzene	ND		1.4	0.096	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
1,2-Dibromoethane	ND		1.4	0.18	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
Isopropylbenzene	ND		1.4	0.21	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
Methyl acetate	ND		7.0	0.84	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
Methyl tert-butyl ether	ND		1.4	0.14	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
Methylcyclohexane	ND		1.4	0.21	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
<b>Methylene Chloride</b>	<b>0.66 J</b>		1.4	0.64	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
Styrene	ND		1.4	0.070	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
Tetrachloroethene	ND		1.4	0.19	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
Toluene	ND		1.4	0.11	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
trans-1,2-Dichloroethene	ND		1.4	0.14	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
trans-1,3-Dichloropropene	ND		1.4	0.61	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
Trichloroethene	ND		1.4	0.31	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
Trichlorofluoromethane	ND		1.4	0.13	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
Vinyl chloride	ND		1.4	0.17	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
Xylenes, Total	ND		2.8	0.23	ug/Kg	⊗	12/07/19 08:00	12/09/19 14:27	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	97			71 - 125			12/07/19 08:00	12/09/19 14:27	1
1,2-Dichloroethane-d4 (Surr)	111			64 - 126			12/07/19 08:00	12/09/19 14:27	1
4-Bromofluorobenzene (Surr)	99			72 - 126			12/07/19 08:00	12/09/19 14:27	1
Dibromofluoromethane (Surr)	101			60 - 140			12/07/19 08:00	12/09/19 14:27	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		200	30	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
bis (2-chloroisopropyl) ether	ND		200	41	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
2,4,5-Trichlorophenol	ND		200	55	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
2,4,6-Trichlorophenol	ND		200	41	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
2,4-Dichlorophenol	ND		200	22	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
2,4-Dimethylphenol	ND		200	49	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
2,4-Dinitrophenol	ND		2000	940	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
2,4-Dinitrotoluene	ND		200	42	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
2,6-Dinitrotoluene	ND		200	24	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
2-Chloronaphthalene	ND		200	34	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1

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# Client Sample Results

Client: LaBella Associates DPC  
 Project/Site: Church Street Project

Job ID: 480-163813-1

**Client Sample ID: TP #1, 1-2**  
**Date Collected: 12/05/19 08:04**  
**Date Received: 12/06/19 15:25**

**Lab Sample ID: 480-163813-6**  
**Matrix: Solid**  
**Percent Solids: 82.8**

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		400	37	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
2-Methylphenol	ND		200	24	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
2-Methylnaphthalene	ND		200	41	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
2-Nitroaniline	ND		400	30	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
2-Nitrophenol	ND		200	58	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
3,3'-Dichlorobenzidine	ND		400	240	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
3-Nitroaniline	ND		400	57	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
4,6-Dinitro-2-methylphenol	ND		400	200	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
4-Bromophenyl phenyl ether	ND		200	29	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
4-Chloro-3-methylphenol	ND		200	51	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
4-Chloroaniline	ND		200	51	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
4-Methylphenol	ND		400	24	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
4-Nitroaniline	ND		400	110	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
4-Nitrophenol	ND		400	140	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
Acenaphthene	ND		200	30	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
<b>Acenaphthylene</b>	<b>63 J</b>		200	26	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
Acetophenone	ND		200	28	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
<b>Anthracene</b>	<b>62 J</b>		200	51	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
Atrazine	ND		200	71	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
Benzaldehyde	ND		200	160	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
<b>Benzo[a]anthracene</b>	<b>320</b>		200	20	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
<b>Benzo[a]pyrene</b>	<b>300</b>		200	30	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
<b>Benzo[b]fluoranthene</b>	<b>380</b>		200	32	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
<b>Benzo[g,h,i]perylene</b>	<b>210</b>		200	22	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
<b>Benzo[k]fluoranthene</b>	<b>190 J</b>		200	26	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
Bis(2-chloroethoxy)methane	ND		200	43	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
Bis(2-ethylhexyl) phthalate	ND		200	70	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
Butyl benzyl phthalate	ND		200	34	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
Caprolactam	ND		200	61	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
<b>Carbazole</b>	<b>25 J</b>		200	24	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
<b>Chrysene</b>	<b>340</b>		200	46	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
<b>Dibenz(a,h)anthracene</b>	<b>82 J</b>		200	36	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
Di-n-butyl phthalate	ND		200	35	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
Di-n-octyl phthalate	ND		200	24	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
Dibenzofuran	ND		200	24	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
Diethyl phthalate	ND		200	26	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
Dimethyl phthalate	ND		200	24	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
<b>Fluoranthene</b>	<b>530</b>		200	22	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
Fluorene	ND		200	24	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
Hexachlorobenzene	ND		200	28	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
Hexachlorobutadiene	ND		200	30	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
Hexachlorocyclopentadiene	ND		200	28	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
Hexachloroethane	ND		200	26	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>190 J</b>		200	25	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
Isophorone	ND		200	43	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
N-Nitrosodi-n-propylamine	ND		200	35	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
N-Nitrosodiphenylamine	ND		200	170	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1

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# Client Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

**Client Sample ID: TP #1, 1-2**

Date Collected: 12/05/19 08:04

Date Received: 12/06/19 15:25

**Lab Sample ID: 480-163813-6**

Matrix: Solid

Percent Solids: 82.8

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		200	26	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
Nitrobenzene	ND		200	23	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
Pentachlorophenol	ND		400	200	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
<b>Phenanthrene</b>	<b>200</b>		200	30	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
Phenol	ND		200	31	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
<b>Pyrene</b>	<b>430</b>		200	24	ug/Kg	⊗	12/09/19 15:01	12/10/19 18:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	87		53 - 120				12/09/19 15:01	12/10/19 18:39	1
Phenol-d5 (Surr)	77		54 - 120				12/09/19 15:01	12/10/19 18:39	1
p-Terphenyl-d14 (Surr)	101		79 - 130				12/09/19 15:01	12/10/19 18:39	1
2,4,6-Tribromophenol (Surr)	105		54 - 120				12/09/19 15:01	12/10/19 18:39	1
2-Fluorobiphenyl	97		60 - 120				12/09/19 15:01	12/10/19 18:39	1
2-Fluorophenol (Surr)	77		52 - 120				12/09/19 15:01	12/10/19 18:39	1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.22	0.043	mg/Kg	⊗	12/09/19 07:45	12/10/19 12:43	1
PCB-1221	ND		0.22	0.043	mg/Kg	⊗	12/09/19 07:45	12/10/19 12:43	1
PCB-1232	ND		0.22	0.043	mg/Kg	⊗	12/09/19 07:45	12/10/19 12:43	1
PCB-1242	ND		0.22	0.043	mg/Kg	⊗	12/09/19 07:45	12/10/19 12:43	1
PCB-1248	ND		0.22	0.043	mg/Kg	⊗	12/09/19 07:45	12/10/19 12:43	1
PCB-1254	ND		0.22	0.10	mg/Kg	⊗	12/09/19 07:45	12/10/19 12:43	1
PCB-1260	ND		0.22	0.10	mg/Kg	⊗	12/09/19 07:45	12/10/19 12:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	102		60 - 154				12/09/19 07:45	12/10/19 12:43	1
Tetrachloro-m-xylene	87		60 - 154				12/09/19 07:45	12/10/19 12:43	1
DCB Decachlorobiphenyl	103		65 - 174				12/09/19 07:45	12/10/19 12:43	1
DCB Decachlorobiphenyl	77		65 - 174				12/09/19 07:45	12/10/19 12:43	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>8.4</b>		2.3	0.46	mg/Kg	⊗	12/10/19 14:13	12/11/19 19:32	1
<b>Barium</b>	<b>72.8</b>		0.58	0.13	mg/Kg	⊗	12/10/19 14:13	12/11/19 19:32	1
<b>Cadmium</b>	<b>0.51</b>		0.23	0.035	mg/Kg	⊗	12/10/19 14:13	12/11/19 19:32	1
<b>Chromium</b>	<b>10.9</b>		0.58	0.23	mg/Kg	⊗	12/10/19 14:13	12/11/19 19:32	1
<b>Lead</b>	<b>92.6</b>		1.2	0.28	mg/Kg	⊗	12/10/19 14:13	12/11/19 19:32	1
Selenium	ND		4.6	0.46	mg/Kg	⊗	12/10/19 14:13	12/11/19 19:32	1
Silver	ND		0.69	0.23	mg/Kg	⊗	12/10/19 14:13	12/11/19 19:32	1

## Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.10</b>		0.025	0.010	mg/Kg	⊗	12/15/19 14:01	12/15/19 15:14	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

**Client Sample ID: TP9 SURFACE**

Date Collected: 12/05/19 12:10

Date Received: 12/06/19 15:25

**Lab Sample ID: 480-163813-7**

Matrix: Solid

Percent Solids: 84.3

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		2000	300	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
bis (2-chloroisopropyl) ether	ND		2000	400	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
2,4,5-Trichlorophenol	ND		2000	540	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
2,4,6-Trichlorophenol	ND		2000	400	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
2,4-Dichlorophenol	ND		2000	210	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
2,4-Dimethylphenol	ND		2000	480	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
2,4-Dinitrophenol	ND		20000	9300	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
2,4-Dinitrotoluene	ND		2000	410	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
2,6-Dinitrotoluene	ND		2000	240	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
2-Chloronaphthalene	ND		2000	330	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
2-Chlorophenol	ND		3900	370	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
2-Methylphenol	ND		2000	240	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
2-Methylnaphthalene	ND		2000	400	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
2-Nitroaniline	ND		3900	300	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
2-Nitrophenol	ND		2000	570	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
3,3'-Dichlorobenzidine	ND		3900	2400	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
3-Nitroaniline	ND		3900	560	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
4,6-Dinitro-2-methylphenol	ND		3900	2000	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
4-Bromophenyl phenyl ether	ND		2000	280	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
4-Chloro-3-methylphenol	ND		2000	500	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
4-Chloroaniline	ND		2000	500	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
4-Chlorophenyl phenyl ether	ND		2000	250	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
4-Methylphenol	ND		3900	240	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
4-Nitroaniline	ND		3900	1100	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
4-Nitrophenol	ND		3900	1400	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
Acenaphthene	ND		2000	300	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
Acenaphthylene	ND		2000	260	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
Acetophenone	ND		2000	270	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
Anthracene	ND		2000	500	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
Atrazine	ND		2000	700	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
Benzaldehyde	ND		2000	1600	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
<b>Benzo[a]anthracene</b>	<b>590</b>	<b>J</b>	2000	200	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
<b>Benzo[a]pyrene</b>	<b>460</b>	<b>J</b>	2000	300	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
<b>Benzo[b]fluoranthene</b>	<b>660</b>	<b>J</b>	2000	320	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
<b>Benzo[g,h,i]perylene</b>	<b>490</b>	<b>J</b>	2000	210	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
<b>Benzo[k]fluoranthene</b>	<b>290</b>	<b>J</b>	2000	260	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
Bis(2-chloroethoxy)methane	ND		2000	430	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
Bis(2-chloroethyl)ether	ND		2000	260	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
Bis(2-ethylhexyl) phthalate	ND		2000	680	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
Butyl benzyl phthalate	ND		2000	330	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
Caprolactam	ND		2000	600	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
Carbazole	ND		2000	240	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
<b>Chrysene</b>	<b>630</b>	<b>J</b>	2000	450	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
Dibenz(a,h)anthracene	ND		2000	350	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
Di-n-butyl phthalate	ND		2000	340	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
Di-n-octyl phthalate	ND		2000	240	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
Dibenzofuran	ND		2000	240	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
Diethyl phthalate	ND		2000	260	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10
Dimethyl phthalate	ND		2000	240	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:05	10

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# Client Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

**Client Sample ID: TP9 SURFACE**

Date Collected: 12/05/19 12:10  
Date Received: 12/06/19 15:25

**Lab Sample ID: 480-163813-7**

Matrix: Solid

Percent Solids: 84.3

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	830	J	2000	210	ug/Kg	✉	12/09/19 15:01	12/10/19 19:05	10
Fluorene	ND		2000	240	ug/Kg	✉	12/09/19 15:01	12/10/19 19:05	10
Hexachlorobenzene	ND		2000	270	ug/Kg	✉	12/09/19 15:01	12/10/19 19:05	10
Hexachlorobutadiene	ND		2000	300	ug/Kg	✉	12/09/19 15:01	12/10/19 19:05	10
Hexachlorocyclopentadiene	ND		2000	270	ug/Kg	✉	12/09/19 15:01	12/10/19 19:05	10
Hexachloroethane	ND		2000	260	ug/Kg	✉	12/09/19 15:01	12/10/19 19:05	10
Indeno[1,2,3-cd]pyrene	400	J	2000	250	ug/Kg	✉	12/09/19 15:01	12/10/19 19:05	10
Isophorone	ND		2000	430	ug/Kg	✉	12/09/19 15:01	12/10/19 19:05	10
N-Nitrosodi-n-propylamine	ND		2000	340	ug/Kg	✉	12/09/19 15:01	12/10/19 19:05	10
N-Nitrosodiphenylamine	ND		2000	1600	ug/Kg	✉	12/09/19 15:01	12/10/19 19:05	10
Naphthalene	ND		2000	260	ug/Kg	✉	12/09/19 15:01	12/10/19 19:05	10
Nitrobenzene	ND		2000	220	ug/Kg	✉	12/09/19 15:01	12/10/19 19:05	10
Pentachlorophenol	ND		3900	2000	ug/Kg	✉	12/09/19 15:01	12/10/19 19:05	10
Phenanthrene	310	J	2000	300	ug/Kg	✉	12/09/19 15:01	12/10/19 19:05	10
Phenol	ND		2000	310	ug/Kg	✉	12/09/19 15:01	12/10/19 19:05	10
Pyrene	670	J	2000	240	ug/Kg	✉	12/09/19 15:01	12/10/19 19:05	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Nitrobenzene-d5 (Surr)	80			53 - 120			12/09/19 15:01	12/10/19 19:05	10
Phenol-d5 (Surr)	78			54 - 120			12/09/19 15:01	12/10/19 19:05	10
p-Terphenyl-d14 (Surr)	103			79 - 130			12/09/19 15:01	12/10/19 19:05	10
2,4,6-Tribromophenol (Surr)	113			54 - 120			12/09/19 15:01	12/10/19 19:05	10
2-Fluorobiphenyl	94			60 - 120			12/09/19 15:01	12/10/19 19:05	10
2-Fluorophenol (Surr)	83			52 - 120			12/09/19 15:01	12/10/19 19:05	10

**Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.047	mg/Kg	✉	12/09/19 07:45	12/10/19 12:55	1
PCB-1221	ND		0.24	0.047	mg/Kg	✉	12/09/19 07:45	12/10/19 12:55	1
PCB-1232	ND		0.24	0.047	mg/Kg	✉	12/09/19 07:45	12/10/19 12:55	1
PCB-1242	ND		0.24	0.047	mg/Kg	✉	12/09/19 07:45	12/10/19 12:55	1
PCB-1248	ND		0.24	0.047	mg/Kg	✉	12/09/19 07:45	12/10/19 12:55	1
<b>PCB-1254</b>	<b>0.96</b>		0.24	0.11	mg/Kg	✉	12/09/19 07:45	12/10/19 12:55	1
PCB-1260	ND		0.24	0.11	mg/Kg	✉	12/09/19 07:45	12/10/19 12:55	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tetrachloro-m-xylene	103			60 - 154			12/09/19 07:45	12/10/19 12:55	1
Tetrachloro-m-xylene	92			60 - 154			12/09/19 07:45	12/10/19 12:55	1
DCB Decachlorobiphenyl	97			65 - 174			12/09/19 07:45	12/10/19 12:55	1
DCB Decachlorobiphenyl	80			65 - 174			12/09/19 07:45	12/10/19 12:55	1

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	72.1		2.3	0.47	mg/Kg	✉	12/10/19 14:13	12/11/19 19:36	1
Barium	107		0.59	0.13	mg/Kg	✉	12/10/19 14:13	12/11/19 19:36	1
Cadmium	0.78		0.23	0.035	mg/Kg	✉	12/10/19 14:13	12/11/19 19:36	1
Chromium	17.3		0.59	0.23	mg/Kg	✉	12/10/19 14:13	12/11/19 19:36	1
Lead	222		1.2	0.28	mg/Kg	✉	12/10/19 14:13	12/11/19 19:36	1
Selenium	ND		4.7	0.47	mg/Kg	✉	12/10/19 14:13	12/11/19 19:36	1
Silver	ND		0.70	0.23	mg/Kg	✉	12/10/19 14:13	12/11/19 19:36	1

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# Client Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

**Client Sample ID: TP9 SURFACE**

Date Collected: 12/05/19 12:10  
Date Received: 12/06/19 15:25

**Lab Sample ID: 480-163813-7**

Matrix: Solid

Percent Solids: 84.3

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.26		0.024	0.0099	ug/Kg	⊗	12/15/19 14:01	12/15/19 15:15	1

**Client Sample ID: CHURCHSTREET BAYAREA**

Date Collected: 12/05/19 13:00  
Date Received: 12/06/19 15:25

**Lab Sample ID: 480-163813-8**

Matrix: Solid

Percent Solids: 78.2

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		2100	310	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
bis (2-chloroisopropyl) ether	ND		2100	430	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
2,4,5-Trichlorophenol	ND		2100	580	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
2,4,6-Trichlorophenol	ND		2100	430	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
2,4-Dichlorophenol	ND		2100	230	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
2,4-Dimethylphenol	ND		2100	520	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
2,4-Dinitrophenol	ND		21000	9900	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
2,4-Dinitrotoluene	ND		2100	440	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
2,6-Dinitrotoluene	ND		2100	250	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
2-Chloronaphthalene	ND		2100	350	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
2-Chlorophenol	ND		4200	390	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
2-Methylphenol	ND		2100	250	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
2-Methylnaphthalene	ND		2100	430	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
2-Nitroaniline	ND		4200	310	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
2-Nitrophenol	ND		2100	600	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
3,3'-Dichlorobenzidine	ND		4200	2500	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
3-Nitroaniline	ND		4200	590	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
4,6-Dinitro-2-methylphenol	ND		4200	2100	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
4-Bromophenyl phenyl ether	ND		2100	300	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
4-Chloro-3-methylphenol	ND		2100	530	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
4-Chloroaniline	ND		2100	530	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
4-Chlorophenyl phenyl ether	ND		2100	260	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
4-Methylphenol	ND		4200	250	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
4-Nitroaniline	ND		4200	1100	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
4-Nitrophenol	ND		4200	1500	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
Acenaphthene	ND		2100	310	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
Acenaphthylene	ND		2100	280	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
Acetophenone	ND		2100	290	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
Anthracene	ND		2100	530	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
Atrazine	ND		2100	740	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
Benzaldehyde	ND		2100	1700	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
Benzo[a]anthracene	ND		2100	210	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
Benzo[a]pyrene	ND		2100	310	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
<b>Benzo[b]fluoranthene</b>	<b>520</b>	<b>J</b>	2100	340	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
<b>Benzo[g,h,i]perylene</b>	<b>330</b>	<b>J</b>	2100	230	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
Benzo[k]fluoranthene	ND		2100	280	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
Bis(2-chloroethoxy)methane	ND		2100	450	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
Bis(2-chloroethyl)ether	ND		2100	280	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
Bis(2-ethylhexyl) phthalate	ND		2100	730	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
Butyl benzyl phthalate	ND		2100	350	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
Caprolactam	ND		2100	640	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
Carbazole	ND		2100	250	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: LaBella Associates DPC  
 Project/Site: Church Street Project

Job ID: 480-163813-1

## Client Sample ID: CHURCHSTREET BAYAREA

Date Collected: 12/05/19 13:00  
 Date Received: 12/06/19 15:25

## Lab Sample ID: 480-163813-8

Matrix: Solid

Percent Solids: 78.2

### Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		2100	480	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
Dibenz(a,h)anthracene	ND		2100	380	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
Di-n-butyl phthalate	ND		2100	360	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
Di-n-octyl phthalate	ND		2100	250	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
Dibenzofuran	ND		2100	250	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
Diethyl phthalate	ND		2100	280	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
Dimethyl phthalate	ND		2100	250	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
<b>Fluoranthene</b>	<b>510 J</b>		2100	230	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
Fluorene	ND		2100	250	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
Hexachlorobenzene	ND		2100	290	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
Hexachlorobutadiene	ND		2100	310	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
Hexachlorocyclopentadiene	ND		2100	290	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
Hexachloroethane	ND		2100	280	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
<b>Indeno[1,2,3-cd]pyrene</b>	<b>280 J</b>		2100	260	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
Isophorone	ND		2100	450	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
N-Nitrosodi-n-propylamine	ND		2100	360	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
N-Nitrosodiphenylamine	ND		2100	1700	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
Naphthalene	ND		2100	280	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
Nitrobenzene	ND		2100	240	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
Pentachlorophenol	ND		4200	2100	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
Phenanthrene	ND		2100	310	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
Phenol	ND		2100	330	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
<b>Pyrene</b>	<b>490 J</b>		2100	250	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:30	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Nitrobenzene-d5 (Surr)	87			53 - 120			12/09/19 15:01	12/10/19 19:30	10
Phenol-d5 (Surr)	76			54 - 120			12/09/19 15:01	12/10/19 19:30	10
p-Terphenyl-d14 (Surr)	105			79 - 130			12/09/19 15:01	12/10/19 19:30	10
2,4,6-Tribromophenol (Surr)	118			54 - 120			12/09/19 15:01	12/10/19 19:30	10
2-Fluorobiphenyl	90			60 - 120			12/09/19 15:01	12/10/19 19:30	10
2-Fluorophenol (Surr)	75			52 - 120			12/09/19 15:01	12/10/19 19:30	10

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.30	0.058	mg/Kg	⊗	12/09/19 07:45	12/10/19 13:08	1
PCB-1221	ND		0.30	0.058	mg/Kg	⊗	12/09/19 07:45	12/10/19 13:08	1
PCB-1232	ND		0.30	0.058	mg/Kg	⊗	12/09/19 07:45	12/10/19 13:08	1
PCB-1242	ND		0.30	0.058	mg/Kg	⊗	12/09/19 07:45	12/10/19 13:08	1
PCB-1248	ND		0.30	0.058	mg/Kg	⊗	12/09/19 07:45	12/10/19 13:08	1
PCB-1254	ND		0.30	0.14	mg/Kg	⊗	12/09/19 07:45	12/10/19 13:08	1
PCB-1260	ND		0.30	0.14	mg/Kg	⊗	12/09/19 07:45	12/10/19 13:08	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tetrachloro-m-xylene	102			60 - 154			12/09/19 07:45	12/10/19 13:08	1
Tetrachloro-m-xylene	83			60 - 154			12/09/19 07:45	12/10/19 13:08	1
DCB Decachlorobiphenyl	85			65 - 174			12/09/19 07:45	12/10/19 13:08	1
DCB Decachlorobiphenyl	68			65 - 174			12/09/19 07:45	12/10/19 13:08	1

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# Client Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

## Client Sample ID: CHURCHSTREET BAYAREA

Date Collected: 12/05/19 13:00  
Date Received: 12/06/19 15:25

## Lab Sample ID: 480-163813-8

Matrix: Solid

Percent Solids: 78.2

### Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.8		2.5	0.49	mg/Kg	✉	12/10/19 14:13	12/11/19 19:39	1
Barium	110		0.62	0.14	mg/Kg	✉	12/10/19 14:13	12/11/19 19:39	1
Cadmium	0.40		0.25	0.037	mg/Kg	✉	12/10/19 14:13	12/11/19 19:39	1
Chromium	14.5		0.62	0.25	mg/Kg	✉	12/10/19 14:13	12/11/19 19:39	1
Lead	121		1.2	0.30	mg/Kg	✉	12/10/19 14:13	12/11/19 19:39	1
Selenium	ND		4.9	0.49	mg/Kg	✉	12/10/19 14:13	12/11/19 19:39	1
Silver	ND		0.74	0.25	mg/Kg	✉	12/10/19 14:13	12/11/19 19:39	1

### Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.17		0.024	0.0097	mg/Kg	✉	12/15/19 14:01	12/15/19 15:17	1

## Client Sample ID: UST PARKING AREA

Date Collected: 12/05/19 13:10  
Date Received: 12/06/19 15:25

## Lab Sample ID: 480-163813-9

Matrix: Solid

Percent Solids: 78.3

### Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		210	32	ug/Kg	✉	12/09/19 15:01	12/10/19 19:56	1
bis (2-chloroisopropyl) ether	ND		210	43	ug/Kg	✉	12/09/19 15:01	12/10/19 19:56	1
2,4,5-Trichlorophenol	ND		210	58	ug/Kg	✉	12/09/19 15:01	12/10/19 19:56	1
2,4,6-Trichlorophenol	ND		210	43	ug/Kg	✉	12/09/19 15:01	12/10/19 19:56	1
2,4-Dichlorophenol	ND		210	23	ug/Kg	✉	12/09/19 15:01	12/10/19 19:56	1
2,4-Dimethylphenol	ND		210	52	ug/Kg	✉	12/09/19 15:01	12/10/19 19:56	1
2,4-Dinitrophenol	ND		2100	990	ug/Kg	✉	12/09/19 15:01	12/10/19 19:56	1
2,4-Dinitrotoluene	ND		210	44	ug/Kg	✉	12/09/19 15:01	12/10/19 19:56	1
2,6-Dinitrotoluene	ND		210	25	ug/Kg	✉	12/09/19 15:01	12/10/19 19:56	1
2-Chloronaphthalene	ND		210	35	ug/Kg	✉	12/09/19 15:01	12/10/19 19:56	1
2-Chlorophenol	ND		420	39	ug/Kg	✉	12/09/19 15:01	12/10/19 19:56	1
2-Methylphenol	ND		210	25	ug/Kg	✉	12/09/19 15:01	12/10/19 19:56	1
2-Methylnaphthalene	ND		210	43	ug/Kg	✉	12/09/19 15:01	12/10/19 19:56	1
2-Nitroaniline	ND		420	32	ug/Kg	✉	12/09/19 15:01	12/10/19 19:56	1
2-Nitrophenol	ND		210	61	ug/Kg	✉	12/09/19 15:01	12/10/19 19:56	1
3,3'-Dichlorobenzidine	ND		420	250	ug/Kg	✉	12/09/19 15:01	12/10/19 19:56	1
3-Nitroaniline	ND		420	59	ug/Kg	✉	12/09/19 15:01	12/10/19 19:56	1
4,6-Dinitro-2-methylphenol	ND		420	210	ug/Kg	✉	12/09/19 15:01	12/10/19 19:56	1
4-Bromophenyl phenyl ether	ND		210	30	ug/Kg	✉	12/09/19 15:01	12/10/19 19:56	1
4-Chloro-3-methylphenol	ND		210	53	ug/Kg	✉	12/09/19 15:01	12/10/19 19:56	1
4-Chloroaniline	ND		210	53	ug/Kg	✉	12/09/19 15:01	12/10/19 19:56	1
4-Chlorophenyl phenyl ether	ND		210	26	ug/Kg	✉	12/09/19 15:01	12/10/19 19:56	1
4-Methylphenol	ND		420	25	ug/Kg	✉	12/09/19 15:01	12/10/19 19:56	1
4-Nitroaniline	ND		420	110	ug/Kg	✉	12/09/19 15:01	12/10/19 19:56	1
4-Nitrophenol	ND		420	150	ug/Kg	✉	12/09/19 15:01	12/10/19 19:56	1
Acenaphthene	ND		210	32	ug/Kg	✉	12/09/19 15:01	12/10/19 19:56	1
Acenaphthylene	ND		210	28	ug/Kg	✉	12/09/19 15:01	12/10/19 19:56	1
Acetophenone	ND		210	29	ug/Kg	✉	12/09/19 15:01	12/10/19 19:56	1
Anthracene	ND		210	53	ug/Kg	✉	12/09/19 15:01	12/10/19 19:56	1
Atrazine	ND		210	74	ug/Kg	✉	12/09/19 15:01	12/10/19 19:56	1
Benzaldehyde	ND		210	170	ug/Kg	✉	12/09/19 15:01	12/10/19 19:56	1
Benzo[a]anthracene	ND		210	21	ug/Kg	✉	12/09/19 15:01	12/10/19 19:56	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: LaBella Associates DPC  
 Project/Site: Church Street Project

Job ID: 480-163813-1

## Client Sample ID: UST PARKING AREA

Date Collected: 12/05/19 13:10  
 Date Received: 12/06/19 15:25

## Lab Sample ID: 480-163813-9

Matrix: Solid

Percent Solids: 78.3

### Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	ND		210	32	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:56	1
Benzo[b]fluoranthene	ND		210	34	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:56	1
Benzo[g,h,i]perylene	ND		210	23	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:56	1
Benzo[k]fluoranthene	ND		210	28	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:56	1
Bis(2-chloroethoxy)methane	ND		210	45	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:56	1
Bis(2-chloroethyl)ether	ND		210	28	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:56	1
Bis(2-ethylhexyl) phthalate	ND		210	73	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:56	1
Butyl benzyl phthalate	ND		210	35	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:56	1
Caprolactam	ND		210	64	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:56	1
Carbazole	ND		210	25	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:56	1
Chrysene	ND		210	48	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:56	1
Dibenz(a,h)anthracene	ND		210	38	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:56	1
Di-n-butyl phthalate	ND		210	37	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:56	1
Di-n-octyl phthalate	ND		210	25	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:56	1
Dibenzofuran	ND		210	25	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:56	1
Diethyl phthalate	ND		210	28	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:56	1
Dimethyl phthalate	ND		210	25	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:56	1
Fluoranthene	ND		210	23	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:56	1
Fluorene	ND		210	25	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:56	1
Hexachlorobenzene	ND		210	29	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:56	1
Hexachlorobutadiene	ND		210	32	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:56	1
Hexachlorocyclopentadiene	ND		210	29	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:56	1
Hexachloroethane	ND		210	28	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:56	1
Indeno[1,2,3-cd]pyrene	ND		210	26	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:56	1
Isophorone	ND		210	45	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:56	1
N-Nitrosodi-n-propylamine	ND		210	37	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:56	1
N-Nitrosodiphenylamine	ND		210	170	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:56	1
Naphthalene	ND		210	28	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:56	1
Nitrobenzene	ND		210	24	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:56	1
Pentachlorophenol	ND		420	210	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:56	1
Phenanthrene	ND		210	32	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:56	1
Phenol	ND		210	33	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:56	1
Pyrene	ND		210	25	ug/Kg	⊗	12/09/19 15:01	12/10/19 19:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	86		53 - 120	12/09/19 15:01	12/10/19 19:56	1
Phenol-d5 (Surr)	77		54 - 120	12/09/19 15:01	12/10/19 19:56	1
p-Terphenyl-d14 (Surr)	103		79 - 130	12/09/19 15:01	12/10/19 19:56	1
2,4,6-Tribromophenol (Surr)	101		54 - 120	12/09/19 15:01	12/10/19 19:56	1
2-Fluorobiphenyl	96		60 - 120	12/09/19 15:01	12/10/19 19:56	1
2-Fluorophenol (Surr)	82		52 - 120	12/09/19 15:01	12/10/19 19:56	1

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.30	0.058	mg/Kg	⊗	12/09/19 07:45	12/10/19 13:21	1
PCB-1221	ND		0.30	0.058	mg/Kg	⊗	12/09/19 07:45	12/10/19 13:21	1
PCB-1232	ND		0.30	0.058	mg/Kg	⊗	12/09/19 07:45	12/10/19 13:21	1
PCB-1242	ND		0.30	0.058	mg/Kg	⊗	12/09/19 07:45	12/10/19 13:21	1
PCB-1248	ND		0.30	0.058	mg/Kg	⊗	12/09/19 07:45	12/10/19 13:21	1
PCB-1254	ND		0.30	0.14	mg/Kg	⊗	12/09/19 07:45	12/10/19 13:21	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

## Client Sample ID: UST PARKING AREA

Date Collected: 12/05/19 13:10  
Date Received: 12/06/19 15:25

## Lab Sample ID: 480-163813-9

Matrix: Solid

Percent Solids: 78.3

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND		0.30	0.14	mg/Kg	⌚	12/09/19 07:45	12/10/19 13:21	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>			<b>Limits</b>				
Tetrachloro-m-xylene	106			60 - 154			12/09/19 07:45	12/10/19 13:21	1
Tetrachloro-m-xylene	93			60 - 154			12/09/19 07:45	12/10/19 13:21	1
DCB Decachlorobiphenyl	105			65 - 174			12/09/19 07:45	12/10/19 13:21	1
DCB Decachlorobiphenyl	83			65 - 174			12/09/19 07:45	12/10/19 13:21	1

### Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	13.2		2.4	0.49	mg/Kg	⌚	12/10/19 14:13	12/11/19 19:43	1
Barium	53.8		0.61	0.13	mg/Kg	⌚	12/10/19 14:13	12/11/19 19:43	1
Cadmium	0.082 J		0.24	0.037	mg/Kg	⌚	12/10/19 14:13	12/11/19 19:43	1
Chromium	9.6		0.61	0.24	mg/Kg	⌚	12/10/19 14:13	12/11/19 19:43	1
Lead	12.8		1.2	0.29	mg/Kg	⌚	12/10/19 14:13	12/11/19 19:43	1
Selenium	ND		4.9	0.49	mg/Kg	⌚	12/10/19 14:13	12/11/19 19:43	1
Silver	ND		0.73	0.24	mg/Kg	⌚	12/10/19 14:13	12/11/19 19:43	1

### Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024			0.024	0.0098 mg/Kg	⌚	12/15/19 14:01	12/15/19 15:18	1

## Client Sample ID: SAMPLE 1UST

Date Collected: 12/04/19 10:43  
Date Received: 12/06/19 15:25

## Lab Sample ID: 480-163813-10

Matrix: Solid

Percent Solids: 85.8

### Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	2200		240	67	ug/Kg	⌚	12/11/19 09:08	12/12/19 13:25	10
1,3,5-Trimethylbenzene	820		240	73	ug/Kg	⌚	12/11/19 09:08	12/12/19 13:25	10
4-Isopropyltoluene	170 J		240	82	ug/Kg	⌚	12/11/19 09:08	12/12/19 13:25	10
Benzene	ND		240	46	ug/Kg	⌚	12/11/19 09:08	12/12/19 13:25	10
Ethylbenzene	460		240	70	ug/Kg	⌚	12/11/19 09:08	12/12/19 13:25	10
Isopropylbenzene	190 J		240	36	ug/Kg	⌚	12/11/19 09:08	12/12/19 13:25	10
Methyl tert-butyl ether	ND		240	91	ug/Kg	⌚	12/11/19 09:08	12/12/19 13:25	10
m-Xylene & p-Xylene	1400		480	130	ug/Kg	⌚	12/11/19 09:08	12/12/19 13:25	10
Naphthalene	710		240	82	ug/Kg	⌚	12/11/19 09:08	12/12/19 13:25	10
n-Butylbenzene	ND		240	71	ug/Kg	⌚	12/11/19 09:08	12/12/19 13:25	10
N-Propylbenzene	380		240	63	ug/Kg	⌚	12/11/19 09:08	12/12/19 13:25	10
o-Xylene	560		240	31	ug/Kg	⌚	12/11/19 09:08	12/12/19 13:25	10
sec-Butylbenzene	110 J		240	89	ug/Kg	⌚	12/11/19 09:08	12/12/19 13:25	10
tert-Butylbenzene	ND		240	67	ug/Kg	⌚	12/11/19 09:08	12/12/19 13:25	10
Toluene	89 J		240	65	ug/Kg	⌚	12/11/19 09:08	12/12/19 13:25	10
Xylenes, Total	2000		480	130	ug/Kg	⌚	12/11/19 09:08	12/12/19 13:25	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>			<b>Limits</b>				
1,2-Dichloroethane-d4 (Surr)	106			53 - 146			12/11/19 09:08	12/12/19 13:25	10
4-Bromofluorobenzene (Surr)	109			49 - 148			12/11/19 09:08	12/12/19 13:25	10
Dibromofluoromethane (Surr)	103			60 - 140			12/11/19 09:08	12/12/19 13:25	10
Toluene-d8 (Surr)	98			50 - 149			12/11/19 09:08	12/12/19 13:25	10

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

**Client Sample ID: SAMPLE 1UST**

Date Collected: 12/04/19 10:43  
Date Received: 12/06/19 15:25

**Lab Sample ID: 480-163813-10**

Matrix: Solid

Percent Solids: 85.8

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		190	29	ug/Kg	⌚	12/09/19 15:01	12/10/19 20:21	1
Acenaphthylene	ND		190	25	ug/Kg	⌚	12/09/19 15:01	12/10/19 20:21	1
Anthracene	ND		190	48	ug/Kg	⌚	12/09/19 15:01	12/10/19 20:21	1
Benzo[a]anthracene	ND		190	19	ug/Kg	⌚	12/09/19 15:01	12/10/19 20:21	1
Benzo[a]pyrene	ND		190	29	ug/Kg	⌚	12/09/19 15:01	12/10/19 20:21	1
Benzo[b]fluoranthene	ND		190	31	ug/Kg	⌚	12/09/19 15:01	12/10/19 20:21	1
Benzo[g,h,i]perylene	ND		190	21	ug/Kg	⌚	12/09/19 15:01	12/10/19 20:21	1
Benzo[k]fluoranthene	ND		190	25	ug/Kg	⌚	12/09/19 15:01	12/10/19 20:21	1
Chrysene	ND		190	44	ug/Kg	⌚	12/09/19 15:01	12/10/19 20:21	1
Dibenz(a,h)anthracene	ND		190	34	ug/Kg	⌚	12/09/19 15:01	12/10/19 20:21	1
Fluoranthene	ND		190	21	ug/Kg	⌚	12/09/19 15:01	12/10/19 20:21	1
Fluorene	ND		190	23	ug/Kg	⌚	12/09/19 15:01	12/10/19 20:21	1
Indeno[1,2,3-cd]pyrene	ND		190	24	ug/Kg	⌚	12/09/19 15:01	12/10/19 20:21	1
<b>Naphthalene</b>	<b>210</b>		190	25	ug/Kg	⌚	12/09/19 15:01	12/10/19 20:21	1
Pyrene	ND		190	23	ug/Kg	⌚	12/09/19 15:01	12/10/19 20:21	1
Phenanthrene	ND		190	29	ug/Kg	⌚	12/09/19 15:01	12/10/19 20:21	1

**Surrogate**

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	89		54 - 120	12/09/19 15:01	12/10/19 20:21	1
2-Fluorobiphenyl	78		60 - 120	12/09/19 15:01	12/10/19 20:21	1
2-Fluorophenol (Surr)	62		52 - 120	12/09/19 15:01	12/10/19 20:21	1
Phenol-d5 (Surr)	62		54 - 120	12/09/19 15:01	12/10/19 20:21	1
p-Terphenyl-d14 (Surr)	92		79 - 130	12/09/19 15:01	12/10/19 20:21	1
Nitrobenzene-d5 (Surr)	72		53 - 120	12/09/19 15:01	12/10/19 20:21	1

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	16.0		2.2	0.44	mg/Kg	⌚	12/10/19 14:13	12/11/19 19:58	1
Barium	81.0		0.55	0.12	mg/Kg	⌚	12/10/19 14:13	12/11/19 19:58	1
Cadmium	ND		0.22	0.033	mg/Kg	⌚	12/10/19 14:13	12/11/19 19:58	1
Chromium	20.0		0.55	0.22	mg/Kg	⌚	12/10/19 14:13	12/11/19 19:58	1
Lead	19.2		1.1	0.26	mg/Kg	⌚	12/10/19 14:13	12/11/19 19:58	1
Selenium	ND		4.4	0.44	mg/Kg	⌚	12/10/19 14:13	12/11/19 19:58	1
Silver	ND		0.66	0.22	mg/Kg	⌚	12/10/19 14:13	12/11/19 19:58	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.023	0.0095	mg/Kg	⌚	12/15/19 14:01	12/15/19 15:19	1

**Client Sample ID: SAMPLE 2UST**

Date Collected: 12/04/19 12:25  
Date Received: 12/06/19 15:25

**Lab Sample ID: 480-163813-11**

Matrix: Solid

Percent Solids: 87.0

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	7600		310	85	ug/Kg	⌚	12/11/19 09:08	12/12/19 13:49	20
1,3,5-Trimethylbenzene	2200		310	92	ug/Kg	⌚	12/11/19 09:08	12/12/19 13:49	20
4-Isopropyltoluene	ND		310	100	ug/Kg	⌚	12/11/19 09:08	12/12/19 13:49	20
Benzene	1400		310	58	ug/Kg	⌚	12/11/19 09:08	12/12/19 13:49	20
Ethylbenzene	3400		310	89	ug/Kg	⌚	12/11/19 09:08	12/12/19 13:49	20
Isopropylbenzene	540		310	46	ug/Kg	⌚	12/11/19 09:08	12/12/19 13:49	20

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

**Client Sample ID: SAMPLE 2UST**

Date Collected: 12/04/19 12:25  
Date Received: 12/06/19 15:25

**Lab Sample ID: 480-163813-11**

Matrix: Solid

Percent Solids: 87.0

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		310	120	ug/Kg	⊗	12/11/19 09:08	12/12/19 13:49	20
<b>m-Xylene &amp; p-Xylene</b>	<b>15000</b>		610	170	ug/Kg	⊗	12/11/19 09:08	12/12/19 13:49	20
<b>Naphthalene</b>	<b>950</b>		310	100	ug/Kg	⊗	12/11/19 09:08	12/12/19 13:49	20
n-Butylbenzene	ND		310	89	ug/Kg	⊗	12/11/19 09:08	12/12/19 13:49	20
<b>N-Propylbenzene</b>	<b>1200</b>		310	80	ug/Kg	⊗	12/11/19 09:08	12/12/19 13:49	20
<b>o-Xylene</b>	<b>6100</b>		310	40	ug/Kg	⊗	12/11/19 09:08	12/12/19 13:49	20
<b>sec-Butylbenzene</b>	<b>150 J</b>		310	110	ug/Kg	⊗	12/11/19 09:08	12/12/19 13:49	20
tert-Butylbenzene	ND		310	85	ug/Kg	⊗	12/11/19 09:08	12/12/19 13:49	20
<b>Toluene</b>	<b>9300</b>		310	82	ug/Kg	⊗	12/11/19 09:08	12/12/19 13:49	20
<b>Xylenes, Total</b>	<b>21000</b>		610	170	ug/Kg	⊗	12/11/19 09:08	12/12/19 13:49	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	110			53 - 146			12/11/19 09:08	12/12/19 13:49	20
4-Bromofluorobenzene (Surr)	104			49 - 148			12/11/19 09:08	12/12/19 13:49	20
Dibromofluoromethane (Surr)	107			60 - 140			12/11/19 09:08	12/12/19 13:49	20
Toluene-d8 (Surr)	93			50 - 149			12/11/19 09:08	12/12/19 13:49	20

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		190	28	ug/Kg	⊗	12/09/19 15:01	12/10/19 20:46	1
Acenaphthylene	ND		190	25	ug/Kg	⊗	12/09/19 15:01	12/10/19 20:46	1
Anthracene	ND		190	47	ug/Kg	⊗	12/09/19 15:01	12/10/19 20:46	1
Benzo[a]anthracene	ND		190	19	ug/Kg	⊗	12/09/19 15:01	12/10/19 20:46	1
Benzo[a]pyrene	ND		190	28	ug/Kg	⊗	12/09/19 15:01	12/10/19 20:46	1
Benzo[b]fluoranthene	ND		190	30	ug/Kg	⊗	12/09/19 15:01	12/10/19 20:46	1
<b>Benzo[g,h,i]perylene</b>	<b>20 J</b>		190	20	ug/Kg	⊗	12/09/19 15:01	12/10/19 20:46	1
Benzo[k]fluoranthene	ND		190	25	ug/Kg	⊗	12/09/19 15:01	12/10/19 20:46	1
Chrysene	ND		190	43	ug/Kg	⊗	12/09/19 15:01	12/10/19 20:46	1
Dibenz(a,h)anthracene	ND		190	34	ug/Kg	⊗	12/09/19 15:01	12/10/19 20:46	1
<b>Fluoranthene</b>	<b>27 J</b>		190	20	ug/Kg	⊗	12/09/19 15:01	12/10/19 20:46	1
Fluorene	ND		190	23	ug/Kg	⊗	12/09/19 15:01	12/10/19 20:46	1
Indeno[1,2,3-cd]pyrene	ND		190	24	ug/Kg	⊗	12/09/19 15:01	12/10/19 20:46	1
<b>Naphthalene</b>	<b>1600</b>		190	25	ug/Kg	⊗	12/09/19 15:01	12/10/19 20:46	1
<b>Pyrene</b>	<b>24 J</b>		190	23	ug/Kg	⊗	12/09/19 15:01	12/10/19 20:46	1
Phenanthrene	ND		190	28	ug/Kg	⊗	12/09/19 15:01	12/10/19 20:46	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4,6-Tribromophenol (Surr)	96			54 - 120			12/09/19 15:01	12/10/19 20:46	1
2-Fluorobiphenyl	87			60 - 120			12/09/19 15:01	12/10/19 20:46	1
2-Fluorophenol (Surr)	74			52 - 120			12/09/19 15:01	12/10/19 20:46	1
Phenol-d5 (Surr)	77			54 - 120			12/09/19 15:01	12/10/19 20:46	1
p-Terphenyl-d14 (Surr)	103			79 - 130			12/09/19 15:01	12/10/19 20:46	1
Nitrobenzene-d5 (Surr)	87			53 - 120			12/09/19 15:01	12/10/19 20:46	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>9.6</b>		2.3	0.46	mg/Kg	⊗	12/10/19 14:13	12/11/19 20:02	1
<b>Barium</b>	<b>54.2</b>		0.58	0.13	mg/Kg	⊗	12/10/19 14:13	12/11/19 20:02	1
<b>Cadmium</b>	<b>0.28</b>		0.23	0.035	mg/Kg	⊗	12/10/19 14:13	12/11/19 20:02	1
<b>Chromium</b>	<b>13.8</b>		0.58	0.23	mg/Kg	⊗	12/10/19 14:13	12/11/19 20:02	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

## Client Sample ID: SAMPLE 2UST

Date Collected: 12/04/19 12:25  
Date Received: 12/06/19 15:25

## Lab Sample ID: 480-163813-11

Matrix: Solid

Percent Solids: 87.0

### Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	24.1		1.2	0.28	ug/Kg	✉	12/10/19 14:13	12/11/19 20:02	1
Selenium	ND		4.6	0.46	ug/Kg	✉	12/10/19 14:13	12/11/19 20:02	1
Silver	0.31 J		0.70	0.23	ug/Kg	✉	12/10/19 14:13	12/11/19 20:02	1

### Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.022	0.0089	mg/Kg	✉	12/15/19 14:01	12/15/19 15:21	1

## Client Sample ID: SAMPLE 3UST

Date Collected: 12/04/19 14:23  
Date Received: 12/06/19 15:25

## Lab Sample ID: 480-163813-12

Matrix: Solid

Percent Solids: 75.7

### Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	3300		370	100	ug/Kg	✉	12/11/19 09:08	12/12/19 14:13	10
1,3,5-Trimethylbenzene	1100		370	110	ug/Kg	✉	12/11/19 09:08	12/12/19 14:13	10
4-Isopropyltoluene	170 J		370	130	ug/Kg	✉	12/11/19 09:08	12/12/19 14:13	10
Benzene	ND		370	71	ug/Kg	✉	12/11/19 09:08	12/12/19 14:13	10
Ethylbenzene	340 J		370	110	ug/Kg	✉	12/11/19 09:08	12/12/19 14:13	10
Isopropylbenzene	150 J		370	56	ug/Kg	✉	12/11/19 09:08	12/12/19 14:13	10
Methyl tert-butyl ether	ND		370	140	ug/Kg	✉	12/11/19 09:08	12/12/19 14:13	10
m-Xylene & p-Xylene	1200		740	210	ug/Kg	✉	12/11/19 09:08	12/12/19 14:13	10
Naphthalene	530		370	130	ug/Kg	✉	12/11/19 09:08	12/12/19 14:13	10
n-Butylbenzene	ND		370	110	ug/Kg	✉	12/11/19 09:08	12/12/19 14:13	10
N-Propylbenzene	410		370	98	ug/Kg	✉	12/11/19 09:08	12/12/19 14:13	10
o-Xylene	480		370	48	ug/Kg	✉	12/11/19 09:08	12/12/19 14:13	10
sec-Butylbenzene	140 J		370	140	ug/Kg	✉	12/11/19 09:08	12/12/19 14:13	10
tert-Butylbenzene	ND		370	100	ug/Kg	✉	12/11/19 09:08	12/12/19 14:13	10
Toluene	ND		370	100	ug/Kg	✉	12/11/19 09:08	12/12/19 14:13	10
Xylenes, Total	1700		740	210	ug/Kg	✉	12/11/19 09:08	12/12/19 14:13	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		53 - 146				12/11/19 09:08	12/12/19 14:13	10
4-Bromofluorobenzene (Surr)	104		49 - 148				12/11/19 09:08	12/12/19 14:13	10
Dibromofluoromethane (Surr)	105		60 - 140				12/11/19 09:08	12/12/19 14:13	10
Toluene-d8 (Surr)	94		50 - 149				12/11/19 09:08	12/12/19 14:13	10

### Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		220	33	ug/Kg	✉	12/09/19 15:01	12/10/19 21:11	1
Acenaphthylene	ND		220	29	ug/Kg	✉	12/09/19 15:01	12/10/19 21:11	1
Anthracene	ND		220	55	ug/Kg	✉	12/09/19 15:01	12/10/19 21:11	1
Benzo[a]anthracene	85 J		220	22	ug/Kg	✉	12/09/19 15:01	12/10/19 21:11	1
Benzo[a]pyrene	76 J		220	33	ug/Kg	✉	12/09/19 15:01	12/10/19 21:11	1
Benzo[b]fluoranthene	98 J		220	35	ug/Kg	✉	12/09/19 15:01	12/10/19 21:11	1
Benzo[g,h,i]perylene	57 J		220	24	ug/Kg	✉	12/09/19 15:01	12/10/19 21:11	1
Benzo[k]fluoranthene	ND		220	29	ug/Kg	✉	12/09/19 15:01	12/10/19 21:11	1
Chrysene	92 J		220	50	ug/Kg	✉	12/09/19 15:01	12/10/19 21:11	1
Dibenzo(a,h)anthracene	ND		220	39	ug/Kg	✉	12/09/19 15:01	12/10/19 21:11	1
Fluoranthene	130 J		220	24	ug/Kg	✉	12/09/19 15:01	12/10/19 21:11	1
Fluorene	ND		220	26	ug/Kg	✉	12/09/19 15:01	12/10/19 21:11	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

**Client Sample ID: SAMPLE 3UST**

Date Collected: 12/04/19 14:23  
Date Received: 12/06/19 15:25

**Lab Sample ID: 480-163813-12**

Matrix: Solid

Percent Solids: 75.7

**Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	58	J	220	28	ug/Kg	✉	12/09/19 15:01	12/10/19 21:11	1
Naphthalene	700		220	29	ug/Kg	✉	12/09/19 15:01	12/10/19 21:11	1
Pyrene	110	J	220	26	ug/Kg	✉	12/09/19 15:01	12/10/19 21:11	1
Phenanthrene	50	J	220	33	ug/Kg	✉	12/09/19 15:01	12/10/19 21:11	1

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
			54 - 120	60 - 120	52 - 120			
2,4,6-Tribromophenol (Surr)	107					12/09/19 15:01	12/10/19 21:11	1
2-Fluorobiphenyl	91					12/09/19 15:01	12/10/19 21:11	1
2-Fluorophenol (Surr)	75					12/09/19 15:01	12/10/19 21:11	1
Phenol-d5 (Surr)	75					12/09/19 15:01	12/10/19 21:11	1
p-Terphenyl-d14 (Surr)	108					12/09/19 15:01	12/10/19 21:11	1
Nitrobenzene-d5 (Surr)	89					12/09/19 15:01	12/10/19 21:11	1

**Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.0		2.6	0.53	mg/Kg	✉	12/10/19 14:13	12/11/19 20:05	1
Barium	92.1		0.66	0.15	mg/Kg	✉	12/10/19 14:13	12/11/19 20:05	1
Cadmium	0.35		0.26	0.040	mg/Kg	✉	12/10/19 14:13	12/11/19 20:05	1
Chromium	18.5		0.66	0.26	mg/Kg	✉	12/10/19 14:13	12/11/19 20:05	1
Lead	23.8		1.3	0.32	mg/Kg	✉	12/10/19 14:13	12/11/19 20:05	1
Selenium	0.81	J	5.3	0.53	mg/Kg	✉	12/10/19 14:13	12/11/19 20:05	1
Silver	0.26	J	0.79	0.26	mg/Kg	✉	12/10/19 14:13	12/11/19 20:05	1

**Method: 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.15		0.027	0.011	mg/Kg	✉	12/15/19 14:01	12/15/19 15:22	1

**Client Sample ID: SAMPLE 4UST**

Date Collected: 12/04/19 13:52  
Date Received: 12/06/19 15:25

**Lab Sample ID: 480-163813-13**

Matrix: Solid

Percent Solids: 79.8

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	88	J	110	31	ug/Kg	✉	12/11/19 09:08	12/12/19 14:37	4
1,3,5-Trimethylbenzene	170		110	34	ug/Kg	✉	12/11/19 09:08	12/12/19 14:37	4
4-Isopropyltoluene	90	J	110	38	ug/Kg	✉	12/11/19 09:08	12/12/19 14:37	4
Benzene	ND		110	21	ug/Kg	✉	12/11/19 09:08	12/12/19 14:37	4
Ethylbenzene	140		110	33	ug/Kg	✉	12/11/19 09:08	12/12/19 14:37	4
Isopropylbenzene	84	J	110	17	ug/Kg	✉	12/11/19 09:08	12/12/19 14:37	4
Methyl tert-butyl ether	ND		110	42	ug/Kg	✉	12/11/19 09:08	12/12/19 14:37	4
m-Xylene & p-Xylene	100	J	220	62	ug/Kg	✉	12/11/19 09:08	12/12/19 14:37	4
Naphthalene	200		110	38	ug/Kg	✉	12/11/19 09:08	12/12/19 14:37	4
n-Butylbenzene	ND		110	33	ug/Kg	✉	12/11/19 09:08	12/12/19 14:37	4
N-Propylbenzene	200		110	29	ug/Kg	✉	12/11/19 09:08	12/12/19 14:37	4
o-Xylene	15	J	110	15	ug/Kg	✉	12/11/19 09:08	12/12/19 14:37	4
sec-Butylbenzene	88	J	110	41	ug/Kg	✉	12/11/19 09:08	12/12/19 14:37	4
tert-Butylbenzene	ND		110	31	ug/Kg	✉	12/11/19 09:08	12/12/19 14:37	4
Toluene	ND		110	30	ug/Kg	✉	12/11/19 09:08	12/12/19 14:37	4
Xylenes, Total	120	J	220	62	ug/Kg	✉	12/11/19 09:08	12/12/19 14:37	4

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

## Client Sample ID: SAMPLE 4UST

Date Collected: 12/04/19 13:52  
Date Received: 12/06/19 15:25

## Lab Sample ID: 480-163813-13

Matrix: Solid

Percent Solids: 79.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		53 - 146	12/11/19 09:08	12/12/19 14:37	4
4-Bromofluorobenzene (Surr)	102		49 - 148	12/11/19 09:08	12/12/19 14:37	4
Dibromofluoromethane (Surr)	110		60 - 140	12/11/19 09:08	12/12/19 14:37	4
Toluene-d8 (Surr)	95		50 - 149	12/11/19 09:08	12/12/19 14:37	4

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1000	150	ug/Kg	✉	12/09/19 15:01	12/10/19 21:35	5
Acenaphthylene	ND		1000	130	ug/Kg	✉	12/09/19 15:01	12/10/19 21:35	5
Anthracene	ND		1000	260	ug/Kg	✉	12/09/19 15:01	12/10/19 21:35	5
Benzo[a]anthracene	ND		1000	100	ug/Kg	✉	12/09/19 15:01	12/10/19 21:35	5
Benzo[a]pyrene	ND		1000	150	ug/Kg	✉	12/09/19 15:01	12/10/19 21:35	5
Benzo[b]fluoranthene	ND		1000	160	ug/Kg	✉	12/09/19 15:01	12/10/19 21:35	5
<b>Benzo[g,h,i]perylene</b>	<b>140 J</b>		1000	110	ug/Kg	✉	12/09/19 15:01	12/10/19 21:35	5
Benzo[k]fluoranthene	ND		1000	130	ug/Kg	✉	12/09/19 15:01	12/10/19 21:35	5
Chrysene	ND		1000	230	ug/Kg	✉	12/09/19 15:01	12/10/19 21:35	5
Dibenz(a,h)anthracene	ND		1000	180	ug/Kg	✉	12/09/19 15:01	12/10/19 21:35	5
<b>Fluoranthene</b>	<b>250 J</b>		1000	110	ug/Kg	✉	12/09/19 15:01	12/10/19 21:35	5
Fluorene	ND		1000	120	ug/Kg	✉	12/09/19 15:01	12/10/19 21:35	5
Indeno[1,2,3-cd]pyrene	ND		1000	130	ug/Kg	✉	12/09/19 15:01	12/10/19 21:35	5
<b>Naphthalene</b>	<b>700 J</b>		1000	130	ug/Kg	✉	12/09/19 15:01	12/10/19 21:35	5
<b>Pyrene</b>	<b>190 J</b>		1000	120	ug/Kg	✉	12/09/19 15:01	12/10/19 21:35	5
Phenanthrene	ND		1000	150	ug/Kg	✉	12/09/19 15:01	12/10/19 21:35	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	98		54 - 120	12/09/19 15:01	12/10/19 21:35	5
2-Fluorobiphenyl	92		60 - 120	12/09/19 15:01	12/10/19 21:35	5
2-Fluorophenol (Surr)	77		52 - 120	12/09/19 15:01	12/10/19 21:35	5
Phenol-d5 (Surr)	78		54 - 120	12/09/19 15:01	12/10/19 21:35	5
p-Terphenyl-d14 (Surr)	110		79 - 130	12/09/19 15:01	12/10/19 21:35	5
Nitrobenzene-d5 (Surr)	93		53 - 120	12/09/19 15:01	12/10/19 21:35	5

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>11.2</b>		2.6	0.52	mg/Kg	✉	12/10/19 14:13	12/11/19 20:09	1
<b>Barium</b>	<b>89.0</b>		0.65	0.14	mg/Kg	✉	12/10/19 14:13	12/11/19 20:09	1
<b>Cadmium</b>	<b>0.22 J</b>		0.26	0.039	mg/Kg	✉	12/10/19 14:13	12/11/19 20:09	1
<b>Chromium</b>	<b>16.0</b>		0.65	0.26	mg/Kg	✉	12/10/19 14:13	12/11/19 20:09	1
<b>Lead</b>	<b>41.6</b>		1.3	0.31	mg/Kg	✉	12/10/19 14:13	12/11/19 20:09	1
<b>Selenium</b>	<b>0.53 J</b>		5.2	0.52	mg/Kg	✉	12/10/19 14:13	12/11/19 20:09	1
Silver	ND		0.78	0.26	mg/Kg	✉	12/10/19 14:13	12/11/19 20:09	1

## Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.11</b>		0.025	0.010	mg/Kg	✉	12/15/19 14:01	12/15/19 15:23	1

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# Surrogate Summary

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (71-125)	DCA (64-126)	BFB (72-126)	DBFM (60-140)
480-163813-1	TP #4, 1-2	97	112	92	100
480-163813-2	TP #3, 2-3	99	115	93	102
480-163813-3	TP #5, 1-2	105	110	85	103
480-163813-3 MS	TP #5, 1-2	93	101	86	99
480-163813-3 MSD	TP #5, 1-2	102	101	86	102
480-163813-4	TP #6, 3-4	94	110	93	102
480-163813-5	TP #9, 3	94	114	90	103
480-163813-6	TP #1, 1-2	97	111	99	101
LCS 480-508768/1-A	Lab Control Sample	95	106	102	99
LCS 480-509017/1-A	Lab Control Sample	91	102	98	96
MB 480-508768/2-A	Method Blank	96	107	101	99
MB 480-509017/2-A	Method Blank	96	108	95	98

### Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

## Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (53-146)	BFB (49-148)	TOL (50-149)	DBFM (60-140)
480-163813-10	SAMPLE 1UST	106	109	98	103
480-163813-11	SAMPLE 2UST	110	104	93	107
480-163813-12	SAMPLE 3UST	103	104	94	105
480-163813-13	SAMPLE 4UST	108	102	95	110
LCS 480-509237/1-A	Lab Control Sample	114	109	97	109
MB 480-509237/2-A	Method Blank	105	107	96	103

### Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		NBZ (53-120)	PHL (54-120)	TPHd14 (79-130)	TBP (54-120)	FBP (60-120)	2FP (52-120)
480-163813-1	TP #4, 1-2	81	72	112	105	94	69
480-163813-2	TP #3, 2-3	92	81	109	103	99	82
480-163813-3	TP #5, 1-2	81	72	100	97	89	70
480-163813-3 MS	TP #5, 1-2	85	78	98	107	91	76
480-163813-3 MSD	TP #5, 1-2	61	58	97	103	83	47 X
480-163813-4	TP #6, 3-4	80	72	99	104	89	69
480-163813-5	TP #9, 3	82	76	102	111	91	74

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# Surrogate Summary

Client: LaBella Associates DPC  
 Project/Site: Church Street Project

Job ID: 480-163813-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		NBZ (53-120)	PHL (54-120)	TPHd14 (79-130)	TBP (54-120)	FBP (60-120)	2FP (52-120)
480-163813-6	TP #1, 1-2	87	77	101	105	97	77
480-163813-7	TP9 SURFACE	80	78	103	113	94	83
480-163813-8	CHURCHSTREET BAYAREA	87	76	105	118	90	75
480-163813-9	UST PARKING AREA	86	77	103	101	96	82
480-163813-10	SAMPLE 1UST	72	62	92	89	78	62
480-163813-11	SAMPLE 2UST	87	77	103	96	87	74
480-163813-12	SAMPLE 3UST	89	75	108	107	91	75
480-163813-13	SAMPLE 4UST	93	78	110	98	92	77
LCS 480-508877/2-A	Lab Control Sample	78	66	100	96	87	68
MB 480-508877/1-A	Method Blank	83	75	105	87	88	74

### Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (60-154)	TCX2 (60-154)	DCBP1 (65-174)	DCBP2 (65-174)
480-163813-1	TP #4, 1-2	102	86	97	74
480-163813-2	TP #3, 2-3	103	91	101	78
480-163813-3	TP #5, 1-2	94	82	94	76
480-163813-3 MS	TP #5, 1-2	115	103	113	96
480-163813-3 MSD	TP #5, 1-2	124	100	113	94
480-163813-4	TP #6, 3-4	101	87	98	77
480-163813-5	TP #9, 3	99	88	95	78
480-163813-6	TP #1, 1-2	102	87	103	77
480-163813-7	TP9 SURFACE	103	92	97	80
480-163813-8	CHURCHSTREET BAYAREA	102	83	85	68
480-163813-9	UST PARKING AREA	106	93	105	83
LCS 480-508728/2-A	Lab Control Sample	138	116	137	116
MB 480-508728/1-A	Method Blank	100	92	101	87

### Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

# QC Sample Results

Client: LaBella Associates DPC  
 Project/Site: Church Street Project

Job ID: 480-163813-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 480-508768/2-A**

**Matrix: Solid**

**Analysis Batch: 508746**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 508768**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
2-Butanone (MEK)	ND		25	1.8	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
2-Hexanone	ND		25	2.5	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
Acetone	ND		25	4.2	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
Benzene	ND		5.0	0.25	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
Bromodichloromethane	ND		5.0	0.67	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
Bromoform	ND		5.0	2.5	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
Bromomethane	ND		5.0	0.45	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
Carbon disulfide	ND		5.0	2.5	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
Chlorobenzene	ND		5.0	0.66	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
Dibromochloromethane	ND		5.0	0.64	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
Chloroethane	ND		5.0	1.1	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
Chloroform	ND		5.0	0.31	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
Chloromethane	ND		5.0	0.30	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
Cyclohexane	ND		5.0	0.70	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
Ethylbenzene	ND		5.0	0.35	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
Isopropylbenzene	ND		5.0	0.75	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
Methyl acetate	ND		25	3.0	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
Methylcyclohexane	ND		5.0	0.76	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
Methylene Chloride	ND		5.0	2.3	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
Styrene	ND		5.0	0.25	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
Tetrachloroethene	ND		5.0	0.67	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
Toluene	ND		5.0	0.38	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
Trichloroethene	ND		5.0	1.1	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
Vinyl chloride	ND		5.0	0.61	ug/Kg	12/09/19 08:51	12/09/19 11:54		1
Xylenes, Total			10	0.84	ug/Kg	12/09/19 08:51	12/09/19 11:54		1

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: LaBella Associates DPC  
 Project/Site: Church Street Project

Job ID: 480-163813-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 480-508768/2-A**

**Matrix: Solid**

**Analysis Batch: 508746**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 508768**

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	96		71 - 125	12/09/19 08:51	12/09/19 11:54	1
1,2-Dichloroethane-d4 (Surr)	107		64 - 126	12/09/19 08:51	12/09/19 11:54	1
4-Bromofluorobenzene (Surr)	101		72 - 126	12/09/19 08:51	12/09/19 11:54	1
Dibromofluoromethane (Surr)	99		60 - 140	12/09/19 08:51	12/09/19 11:54	1

**Lab Sample ID: LCS 480-508768/1-A**

**Matrix: Solid**

**Analysis Batch: 508746**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 508768**

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
1,1,1-Trichloroethane	50.0	45.0		ug/Kg		90	77 - 121	
1,1,2,2-Tetrachloroethane	50.0	51.2		ug/Kg		102	80 - 120	
1,1,2-Trichloroethane	50.0	51.5		ug/Kg		103	78 - 122	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.1		ug/Kg		90	60 - 140	
1,1-Dichloroethane	50.0	46.9		ug/Kg		94	73 - 126	
1,1-Dichloroethene	50.0	42.6		ug/Kg		85	59 - 125	
1,2,4-Trichlorobenzene	50.0	48.0		ug/Kg		96	64 - 120	
1,2-Dibromo-3-Chloropropane	50.0	50.4		ug/Kg		101	63 - 124	
1,2-Dichlorobenzene	50.0	46.7		ug/Kg		93	75 - 120	
1,2-Dichloroethane	50.0	48.9		ug/Kg		98	77 - 122	
1,2-Dichloropropane	50.0	48.2		ug/Kg		96	75 - 124	
1,3-Dichlorobenzene	50.0	45.7		ug/Kg		91	74 - 120	
1,4-Dichlorobenzene	50.0	45.4		ug/Kg		91	73 - 120	
2-Butanone (MEK)	250	317		ug/Kg		127	70 - 134	
2-Hexanone	250	302		ug/Kg		121	59 - 130	
4-Methyl-2-pentanone (MIBK)	250	289		ug/Kg		115	65 - 133	
Acetone	250	279		ug/Kg		112	61 - 137	
Benzene	50.0	46.7		ug/Kg		93	79 - 127	
Bromodichloromethane	50.0	46.3		ug/Kg		93	80 - 122	
Bromoform	50.0	51.5		ug/Kg		103	68 - 126	
Bromomethane	50.0	53.3		ug/Kg		107	37 - 149	
Carbon disulfide	50.0	50.0		ug/Kg		100	64 - 131	
Carbon tetrachloride	50.0	43.9		ug/Kg		88	75 - 135	
Chlorobenzene	50.0	45.0		ug/Kg		90	76 - 124	
Dibromochloromethane	50.0	47.3		ug/Kg		95	76 - 125	
Chloroethane	50.0	51.8		ug/Kg		104	69 - 135	
Chloroform	50.0	44.0		ug/Kg		88	80 - 120	
Chloromethane	50.0	52.3		ug/Kg		105	63 - 127	
cis-1,2-Dichloroethene	50.0	46.8		ug/Kg		94	81 - 120	
cis-1,3-Dichloropropene	50.0	46.2		ug/Kg		92	80 - 120	
Cyclohexane	50.0	45.5		ug/Kg		91	65 - 120	
Dichlorodifluoromethane	50.0	45.9		ug/Kg		92	57 - 142	
Ethylbenzene	50.0	45.1		ug/Kg		90	80 - 120	
1,2-Dibromoethane	50.0	49.7		ug/Kg		99	78 - 120	
Isopropylbenzene	50.0	41.7		ug/Kg		83	72 - 120	
Methyl acetate	100	108		ug/Kg		108	55 - 136	
Methyl tert-butyl ether	50.0	47.4		ug/Kg		95	63 - 125	
Methylcyclohexane	50.0	44.0		ug/Kg		88	60 - 140	

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: LaBella Associates DPC  
 Project/Site: Church Street Project

Job ID: 480-163813-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-508768/1-A**

**Matrix: Solid**

**Analysis Batch: 508746**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 508768**

**%Rec.**

**Limits**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Methylene Chloride	50.0	45.0		ug/Kg		90	61 - 127
Styrene	50.0	44.9		ug/Kg		90	80 - 120
Tetrachloroethene	50.0	46.0		ug/Kg		92	74 - 122
Toluene	50.0	44.6		ug/Kg		89	74 - 128
trans-1,2-Dichloroethene	50.0	46.9		ug/Kg		94	78 - 126
trans-1,3-Dichloropropene	50.0	48.3		ug/Kg		97	73 - 123
Trichloroethene	50.0	45.8		ug/Kg		92	77 - 129
Trichlorofluoromethane	50.0	47.4		ug/Kg		95	65 - 146
Vinyl chloride	50.0	50.3		ug/Kg		101	61 - 133
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Toluene-d8 (Surr)	95		71 - 125				
1,2-Dichloroethane-d4 (Surr)	106		64 - 126				
4-Bromofluorobenzene (Surr)	102		72 - 126				
Dibromofluoromethane (Surr)	99		60 - 140				

**Lab Sample ID: 480-163813-3 MS**

**Matrix: Solid**

**Analysis Batch: 508746**

**Client Sample ID: TP #5, 1-2**

**Prep Type: Total/NA**

**Prep Batch: 508768**

**%Rec.**

**Limits**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
1,1,1-Trichloroethane	ND	F1	21.1	14.1	F1	ug/Kg	⊗	67	77 - 121
1,1,2,2-Tetrachloroethane	ND	F1	21.1	15.3	F1	ug/Kg	⊗	73	80 - 120
1,1,2-Trichloroethane	ND	F1	21.1	12.3	F1	ug/Kg	⊗	58	78 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		21.1	15.5		ug/Kg	⊗	74	60 - 140
1,1-Dichloroethane	ND	F1	21.1	14.6	F1	ug/Kg	⊗	69	73 - 126
1,1-Dichloroethene	ND	F1	21.1	11.9	F1	ug/Kg	⊗	56	59 - 125
1,2,4-Trichlorobenzene	ND	F1	21.1	2.10	F1	ug/Kg	⊗	10	64 - 120
1,2-Dibromo-3-Chloropropane	ND	F1	21.1	9.62	F1	ug/Kg	⊗	46	63 - 124
1,2-Dichlorobenzene	ND	F1	21.1	5.50	F1	ug/Kg	⊗	26	75 - 120
1,2-Dichloroethane	ND	F1	21.1	12.0	F1	ug/Kg	⊗	57	77 - 122
1,2-Dichloropropane	ND	F1	21.1	13.6	F1	ug/Kg	⊗	65	75 - 124
1,3-Dichlorobenzene	ND	F1	21.1	4.87	F1	ug/Kg	⊗	23	74 - 120
1,4-Dichlorobenzene	ND	F1	21.1	4.29	F1	ug/Kg	⊗	20	73 - 120
2-Butanone (MEK)	2.0	J	105	75.3		ug/Kg	⊗	70	70 - 134
2-Hexanone	ND	F1	105	58.6	F1	ug/Kg	⊗	56	59 - 130
4-Methyl-2-pentanone (MIBK)	ND		105	80.6		ug/Kg	⊗	77	65 - 133
Acetone	15		105	83.1		ug/Kg	⊗	64	61 - 137
Benzene	ND	F1	21.1	12.6	F1	ug/Kg	⊗	60	79 - 127
Bromodichloromethane	ND	F1	21.1	11.9	F1	ug/Kg	⊗	56	80 - 122
Bromoform	ND	F1	21.1	9.28	F1	ug/Kg	⊗	44	68 - 126
Bromomethane	ND		21.1	15.8		ug/Kg	⊗	75	37 - 149
Carbon disulfide	ND	F1	21.1	7.86	F1	ug/Kg	⊗	37	64 - 131
Carbon tetrachloride	ND	F1	21.1	12.8	F1	ug/Kg	⊗	61	75 - 135
Chlorobenzene	ND	F1	21.1	7.12	F1	ug/Kg	⊗	34	76 - 124
Dibromochloromethane	ND	F1	21.1	10.8	F1	ug/Kg	⊗	51	76 - 125
Chloroethane	ND		21.1	15.2		ug/Kg	⊗	72	69 - 135
Chloroform	ND	F1	21.1	12.6	F1	ug/Kg	⊗	60	80 - 120

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 480-163813-3 MS**

**Matrix: Solid**

**Analysis Batch: 508746**

**Client Sample ID: TP #5, 1-2**

**Prep Type: Total/NA**

**Prep Batch: 508768**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.	Limits
Chloromethane	ND		21.1	16.7		ug/Kg	⊗	79	63 - 127	
cis-1,2-Dichloroethene	ND	F1	21.1	10.4	F1	ug/Kg	⊗	49	80 - 120	
cis-1,3-Dichloropropene	ND	F1	21.1	8.04	F1	ug/Kg	⊗	38	80 - 120	
Cyclohexane	ND	F1	21.1	12.6	F1	ug/Kg	⊗	60	65 - 120	
Dichlorodifluoromethane	ND		21.1	15.5		ug/Kg	⊗	73	57 - 142	
Ethylbenzene	ND	F1	21.1	8.45	F1	ug/Kg	⊗	40	80 - 120	
1,2-Dibromoethane	ND	F1	21.1	9.16	F1	ug/Kg	⊗	44	78 - 120	
Isopropylbenzene	ND	F1	21.1	11.8	F1	ug/Kg	⊗	56	72 - 120	
Methyl acetate	ND		42.1	37.9		ug/Kg	⊗	90	55 - 136	
Methyl tert-butyl ether	ND		21.1	15.8		ug/Kg	⊗	75	63 - 125	
Methylcyclohexane	ND	F1	21.1	9.37	F1	ug/Kg	⊗	45	60 - 140	
Methylene Chloride	ND	F1	21.1	12.7	F1	ug/Kg	⊗	60	61 - 127	
Styrene	ND	F1	21.1	5.59	F1	ug/Kg	⊗	27	80 - 120	
Tetrachloroethene	ND	F1	21.1	8.55	F1	ug/Kg	⊗	41	74 - 122	
Toluene	ND	F1	21.1	9.20	F1	ug/Kg	⊗	44	74 - 128	
trans-1,2-Dichloroethene	ND	F1	21.1	9.17	F1	ug/Kg	⊗	44	78 - 126	
trans-1,3-Dichloropropene	ND	F1	21.1	6.42	F1	ug/Kg	⊗	30	73 - 123	
Trichloroethene	ND	F1	21.1	8.11	F1	ug/Kg	⊗	38	77 - 129	
Trichlorofluoromethane	ND	F1	21.1	12.7	F1	ug/Kg	⊗	60	65 - 146	
Vinyl chloride	ND		21.1	14.6		ug/Kg	⊗	69	61 - 133	
<b>Surrogate</b>	<b>MS %Recovery</b>	<b>MS Qualifier</b>		<b>MS Limits</b>						
Toluene-d8 (Surr)	93			71 - 125						
1,2-Dichloroethane-d4 (Surr)	101			64 - 126						
4-Bromofluorobenzene (Surr)	86			72 - 126						
Dibromofluoromethane (Surr)	99			60 - 140						

**Lab Sample ID: 480-163813-3 MSD**

**Matrix: Solid**

**Analysis Batch: 508746**

**Client Sample ID: TP #5, 1-2**

**Prep Type: Total/NA**

**Prep Batch: 508768**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.	RPD	Limit
1,1,1-Trichloroethane	ND	F1	19.2	13.5	F1	ug/Kg	⊗	70	77 - 121	4	30
1,1,2,2-Tetrachloroethane	ND	F1	19.2	15.1	F1	ug/Kg	⊗	79	80 - 120	1	30
1,1,2-Trichloroethane	ND	F1	19.2	12.9	F1	ug/Kg	⊗	67	78 - 122	5	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		19.2	14.2		ug/Kg	⊗	74	60 - 140	9	30
1,1-Dichloroethane	ND	F1	19.2	14.4		ug/Kg	⊗	75	73 - 126	1	30
1,1-Dichloroethene	ND	F1	19.2	11.5		ug/Kg	⊗	60	59 - 125	3	30
1,2,4-Trichlorobenzene	ND	F1	19.2	1.96	F1	ug/Kg	⊗	10	64 - 120	7	30
1,2-Dibromo-3-Chloropropane	ND	F1	19.2	9.64	F1	ug/Kg	⊗	50	63 - 124	0	30
1,2-Dichlorobenzene	ND	F1	19.2	5.42	F1	ug/Kg	⊗	28	75 - 120	1	30
1,2-Dichloroethane	ND	F1	19.2	12.4	F1	ug/Kg	⊗	64	77 - 122	3	30
1,2-Dichloropropane	ND	F1	19.2	13.6	F1	ug/Kg	⊗	71	75 - 124	0	30
1,3-Dichlorobenzene	ND	F1	19.2	4.80	F1	ug/Kg	⊗	25	74 - 120	2	30
1,4-Dichlorobenzene	ND	F1	19.2	4.30	F1	ug/Kg	⊗	22	73 - 120	0	30
2-Butanone (MEK)	2.0	J	95.9	73.4		ug/Kg	⊗	74	70 - 134	3	30
2-Hexanone	ND	F1	95.9	60.5		ug/Kg	⊗	63	59 - 130	3	30
4-Methyl-2-pentanone (MIBK)	ND		95.9	75.3		ug/Kg	⊗	79	65 - 133	7	30

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 480-163813-3 MSD**

**Matrix: Solid**

**Analysis Batch: 508746**

**Client Sample ID: TP #5, 1-2**

**Prep Type: Total/NA**

**Prep Batch: 508768**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec.	Limits	RPD	RPD Limit
Acetone	15		95.9	79.0		ug/Kg	⊗	66	61 - 137	5	30
Benzene	ND	F1	19.2	12.6	F1	ug/Kg	⊗	66	79 - 127	0	30
Bromodichloromethane	ND	F1	19.2	12.0	F1	ug/Kg	⊗	63	80 - 122	2	30
Bromoform	ND	F1	19.2	9.47	F1	ug/Kg	⊗	49	68 - 126	2	30
Bromomethane	ND		19.2	15.6		ug/Kg	⊗	81	37 - 149	2	30
Carbon disulfide	ND	F1	19.2	7.69	F1	ug/Kg	⊗	40	64 - 131	2	30
Carbon tetrachloride	ND	F1	19.2	12.3	F1	ug/Kg	⊗	64	75 - 135	4	30
Chlorobenzene	ND	F1	19.2	7.36	F1	ug/Kg	⊗	38	76 - 124	3	30
Dibromochloromethane	ND	F1	19.2	10.8	F1	ug/Kg	⊗	56	76 - 125	0	30
Chloroethane	ND		19.2	15.7		ug/Kg	⊗	82	69 - 135	3	30
Chloroform	ND	F1	19.2	12.5	F1	ug/Kg	⊗	65	80 - 120	1	30
Chloromethane	ND		19.2	16.1		ug/Kg	⊗	84	63 - 127	4	30
cis-1,2-Dichloroethene	ND	F1	19.2	10.8	F1	ug/Kg	⊗	56	80 - 120	4	30
cis-1,3-Dichloropropene	ND	F1	19.2	8.83	F1	ug/Kg	⊗	46	80 - 120	9	30
Cyclohexane	ND	F1	19.2	11.9	F1	ug/Kg	⊗	62	65 - 120	5	30
Dichlorodifluoromethane	ND		19.2	15.3		ug/Kg	⊗	80	57 - 142	1	30
Ethylbenzene	ND	F1	19.2	8.35	F1	ug/Kg	⊗	44	80 - 120	1	30
1,2-Dibromoethane	ND	F1	19.2	8.88	F1	ug/Kg	⊗	46	78 - 120	3	30
Isopropylbenzene	ND	F1	19.2	11.0	F1	ug/Kg	⊗	57	72 - 120	7	30
Methyl acetate	ND		38.4	38.4		ug/Kg	⊗	100	55 - 136	1	30
Methyl tert-butyl ether	ND		19.2	16.0		ug/Kg	⊗	83	63 - 125	1	30
Methylcyclohexane	ND	F1	19.2	8.62	F1	ug/Kg	⊗	45	60 - 140	8	30
Methylene Chloride	ND	F1	19.2	13.6		ug/Kg	⊗	71	61 - 127	6	30
Styrene	ND	F1	19.2	6.03	F1	ug/Kg	⊗	31	80 - 120	8	30
Tetrachloroethene	ND	F1	19.2	9.21	F1	ug/Kg	⊗	48	74 - 122	7	30
Toluene	ND	F1	19.2	10.8	F1	ug/Kg	⊗	56	74 - 128	16	30
trans-1,2-Dichloroethene	ND	F1	19.2	9.28	F1	ug/Kg	⊗	48	78 - 126	1	30
trans-1,3-Dichloropropene	ND	F1	19.2	7.78	F1	ug/Kg	⊗	41	73 - 123	19	30
Trichloroethene	ND	F1	19.2	8.67	F1	ug/Kg	⊗	45	77 - 129	7	30
Trichlorofluoromethane	ND	F1	19.2	13.1		ug/Kg	⊗	68	65 - 146	3	30
Vinyl chloride	ND		19.2	14.4		ug/Kg	⊗	75	61 - 133	2	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	102		71 - 125
1,2-Dichloroethane-d4 (Surr)	101		64 - 126
4-Bromofluorobenzene (Surr)	86		72 - 126
Dibromofluoromethane (Surr)	102		60 - 140

**Lab Sample ID: MB 480-509017/2-A**

**Matrix: Solid**

**Analysis Batch: 508963**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 509017**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		12/10/19 10:25	12/10/19 12:01	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		12/10/19 10:25	12/10/19 12:01	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		12/10/19 10:25	12/10/19 12:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		12/10/19 10:25	12/10/19 12:01	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		12/10/19 10:25	12/10/19 12:01	1

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 480-509017/2-A**

**Matrix: Solid**

**Analysis Batch: 508963**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 509017**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg				1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg				1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg				1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg				1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg				1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg				1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg				1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg				1
2-Butanone (MEK)	ND		25	1.8	ug/Kg				1
2-Hexanone	ND		25	2.5	ug/Kg				1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg				1
Acetone	ND		25	4.2	ug/Kg				1
Benzene	ND		5.0	0.25	ug/Kg				1
Bromodichloromethane	ND		5.0	0.67	ug/Kg				1
Bromoform	ND		5.0	2.5	ug/Kg				1
Bromomethane	ND		5.0	0.45	ug/Kg				1
Carbon disulfide	ND		5.0	2.5	ug/Kg				1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg				1
Chlorobenzene	ND		5.0	0.66	ug/Kg				1
Dibromochloromethane	ND		5.0	0.64	ug/Kg				1
Chloroethane	ND		5.0	1.1	ug/Kg				1
Chloroform	ND		5.0	0.31	ug/Kg				1
Chloromethane	ND		5.0	0.30	ug/Kg				1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg				1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg				1
Cyclohexane	ND		5.0	0.70	ug/Kg				1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg				1
Ethylbenzene	ND		5.0	0.35	ug/Kg				1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg				1
Isopropylbenzene	ND		5.0	0.75	ug/Kg				1
Methyl acetate	ND		25	3.0	ug/Kg				1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg				1
Methylcyclohexane	ND		5.0	0.76	ug/Kg				1
Methylene Chloride	ND		5.0	2.3	ug/Kg				1
Styrene	ND		5.0	0.25	ug/Kg				1
Tetrachloroethene	ND		5.0	0.67	ug/Kg				1
Toluene	ND		5.0	0.38	ug/Kg				1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg				1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg				1
Trichloroethene	ND		5.0	1.1	ug/Kg				1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg				1
Vinyl chloride	ND		5.0	0.61	ug/Kg				1
Xylenes, Total	ND		10	0.84	ug/Kg				1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		71 - 125	12/10/19 10:25	12/10/19 12:01	1
1,2-Dichloroethane-d4 (Surr)	108		64 - 126	12/10/19 10:25	12/10/19 12:01	1
4-Bromofluorobenzene (Surr)	95		72 - 126	12/10/19 10:25	12/10/19 12:01	1

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 480-509017/2-A**

**Matrix: Solid**

**Analysis Batch: 508963**

Surrogate	MB	MB	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)			98		60 - 140

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 509017**

**Lab Sample ID: LCS 480-509017/1-A**

**Matrix: Solid**

**Analysis Batch: 508963**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,1,1-Trichloroethane	50.0	48.0		ug/Kg	96	77 - 121	
1,1,2,2-Tetrachloroethane	50.0	56.1		ug/Kg	112	80 - 120	
1,1,2-Trichloroethane	50.0	54.6		ug/Kg	109	78 - 122	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.8		ug/Kg	100	60 - 140	
1,1-Dichloroethane	50.0	49.5		ug/Kg	99	73 - 126	
1,1-Dichloroethene	50.0	49.0		ug/Kg	98	59 - 125	
1,2,4-Trichlorobenzene	50.0	53.7		ug/Kg	107	64 - 120	
1,2-Dibromo-3-Chloropropane	50.0	52.7		ug/Kg	105	63 - 124	
1,2-Dichlorobenzene	50.0	51.6		ug/Kg	103	75 - 120	
1,2-Dichloroethane	50.0	50.8		ug/Kg	102	77 - 122	
1,2-Dichloropropane	50.0	51.3		ug/Kg	103	75 - 124	
1,3-Dichlorobenzene	50.0	50.6		ug/Kg	101	74 - 120	
1,4-Dichlorobenzene	50.0	49.3		ug/Kg	99	73 - 120	
2-Butanone (MEK)	250	311		ug/Kg	124	70 - 134	
2-Hexanone	250	308		ug/Kg	123	59 - 130	
4-Methyl-2-pentanone (MIBK)	250	286		ug/Kg	114	65 - 133	
Acetone	250	292		ug/Kg	117	61 - 137	
Benzene	50.0	48.9		ug/Kg	98	79 - 127	
Bromodichloromethane	50.0	49.3		ug/Kg	99	80 - 122	
Bromoform	50.0	56.1		ug/Kg	112	68 - 126	
Bromomethane	50.0	53.9		ug/Kg	108	37 - 149	
Carbon disulfide	50.0	49.8		ug/Kg	100	64 - 131	
Carbon tetrachloride	50.0	46.6		ug/Kg	93	75 - 135	
Chlorobenzene	50.0	48.2		ug/Kg	96	76 - 124	
Dibromochloromethane	50.0	51.0		ug/Kg	102	76 - 125	
Chloroethane	50.0	55.0		ug/Kg	110	69 - 135	
Chloroform	50.0	47.2		ug/Kg	94	80 - 120	
Chloromethane	50.0	52.2		ug/Kg	104	63 - 127	
cis-1,2-Dichloroethene	50.0	49.1		ug/Kg	98	81 - 120	
cis-1,3-Dichloropropene	50.0	48.7		ug/Kg	97	80 - 120	
Cyclohexane	50.0	49.1		ug/Kg	98	65 - 120	
Dichlorodifluoromethane	50.0	49.1		ug/Kg	98	57 - 142	
Ethylbenzene	50.0	49.2		ug/Kg	98	80 - 120	
1,2-Dibromoethane	50.0	52.6		ug/Kg	105	78 - 120	
Isopropylbenzene	50.0	47.6		ug/Kg	95	72 - 120	
Methyl acetate	100	118		ug/Kg	118	55 - 136	
Methyl tert-butyl ether	50.0	48.8		ug/Kg	98	63 - 125	
Methylcyclohexane	50.0	47.2		ug/Kg	94	60 - 140	
Methylene Chloride	50.0	46.9		ug/Kg	94	61 - 127	
Styrene	50.0	47.9		ug/Kg	96	80 - 120	
Tetrachloroethylene	50.0	50.9		ug/Kg	102	74 - 122	

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-509017/1-A**

**Matrix: Solid**

**Analysis Batch: 508963**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 509017**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Toluene	50.0	47.9		ug/Kg		96	74 - 128
trans-1,2-Dichloroethene	50.0	48.8		ug/Kg		98	78 - 126
trans-1,3-Dichloropropene	50.0	52.2		ug/Kg		104	73 - 123
Trichloroethene	50.0	51.2		ug/Kg		102	77 - 129
Trichlorofluoromethane	50.0	49.0		ug/Kg		98	65 - 146
Vinyl chloride	50.0	53.4		ug/Kg		107	61 - 133

Surrogate	%Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	91		71 - 125
1,2-Dichloroethane-d4 (Surr)	102		64 - 126
4-Bromofluorobenzene (Surr)	98		72 - 126
Dibromofluoromethane (Surr)	96		60 - 140

**Lab Sample ID: MB 480-509237/2-A**

**Matrix: Solid**

**Analysis Batch: 509448**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 509237**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		100	28	ug/Kg		12/11/19 09:08	12/12/19 10:49	1
1,3,5-Trimethylbenzene	ND		100	30	ug/Kg		12/11/19 09:08	12/12/19 10:49	1
4-Isopropyltoluene	ND		100	34	ug/Kg		12/11/19 09:08	12/12/19 10:49	1
m-Xylene & p-Xylene	ND		200	55	ug/Kg		12/11/19 09:08	12/12/19 10:49	1
Naphthalene	ND		100	34	ug/Kg		12/11/19 09:08	12/12/19 10:49	1
n-Butylbenzene	ND		100	29	ug/Kg		12/11/19 09:08	12/12/19 10:49	1
N-Propylbenzene	ND		100	26	ug/Kg		12/11/19 09:08	12/12/19 10:49	1
o-Xylene	ND		100	13	ug/Kg		12/11/19 09:08	12/12/19 10:49	1
sec-Butylbenzene	ND		100	37	ug/Kg		12/11/19 09:08	12/12/19 10:49	1
tert-Butylbenzene	ND		100	28	ug/Kg		12/11/19 09:08	12/12/19 10:49	1
Benzene	ND		100	19	ug/Kg		12/11/19 09:08	12/12/19 10:49	1
Ethylbenzene	ND		100	29	ug/Kg		12/11/19 09:08	12/12/19 10:49	1
Isopropylbenzene	ND		100	15	ug/Kg		12/11/19 09:08	12/12/19 10:49	1
Methyl tert-butyl ether	ND		100	38	ug/Kg		12/11/19 09:08	12/12/19 10:49	1
Toluene	ND		100	27	ug/Kg		12/11/19 09:08	12/12/19 10:49	1
Xylenes, Total	ND		200	55	ug/Kg		12/11/19 09:08	12/12/19 10:49	1

Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		50 - 149	12/11/19 09:08	12/12/19 10:49	1
1,2-Dichloroethane-d4 (Surr)	105		53 - 146	12/11/19 09:08	12/12/19 10:49	1
4-Bromofluorobenzene (Surr)	107		49 - 148	12/11/19 09:08	12/12/19 10:49	1
Dibromofluoromethane (Surr)	103		60 - 140	12/11/19 09:08	12/12/19 10:49	1

**Lab Sample ID: LCS 480-509237/1-A**

**Matrix: Solid**

**Analysis Batch: 509448**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 509237**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,2,4-Trimethylbenzene	2500	2060		ug/Kg		82	77 - 127
1,3,5-Trimethylbenzene	2500	2030		ug/Kg		81	79 - 120

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-509237/1-A**

**Matrix: Solid**

**Analysis Batch: 509448**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 509237**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
4-Isopropyltoluene	2500	2170		ug/Kg		87	80 - 120	
m-Xylene & p-Xylene	2500	2140		ug/Kg		86	77 - 125	
Naphthalene	2500	1850		ug/Kg		74	65 - 142	
n-Butylbenzene	2500	2120		ug/Kg		85	80 - 120	
N-Propylbenzene	2500	2070		ug/Kg		83	76 - 120	
o-Xylene	2500	2150		ug/Kg		86	80 - 124	
sec-Butylbenzene	2500	2130		ug/Kg		85	79 - 120	
tert-Butylbenzene	2500	2080		ug/Kg		83	78 - 120	
Benzene	2500	2260		ug/Kg		90	77 - 125	
Ethylbenzene	2500	2180		ug/Kg		87	78 - 124	
Isopropylbenzene	2500	2080		ug/Kg		83	76 - 120	
Methyl tert-butyl ether	2500	1950		ug/Kg		78	67 - 137	
Toluene	2500	2080		ug/Kg		83	75 - 124	

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	97		50 - 149
1,2-Dichloroethane-d4 (Surr)	114		53 - 146
4-Bromofluorobenzene (Surr)	109		49 - 148
Dibromofluoromethane (Surr)	109		60 - 140

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 480-508877/1-A**

**Matrix: Solid**

**Analysis Batch: 509077**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 508877**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		170	25	ug/Kg		12/09/19 15:01	12/10/19 14:53	1
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		12/09/19 15:01	12/10/19 14:53	1
2,4,5-Trichlorophenol	ND		170	46	ug/Kg		12/09/19 15:01	12/10/19 14:53	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		12/09/19 15:01	12/10/19 14:53	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		12/09/19 15:01	12/10/19 14:53	1
2,4-Dimethylphenol	ND		170	41	ug/Kg		12/09/19 15:01	12/10/19 14:53	1
2,4-Dinitrophenol	ND		1700	780	ug/Kg		12/09/19 15:01	12/10/19 14:53	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg		12/09/19 15:01	12/10/19 14:53	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		12/09/19 15:01	12/10/19 14:53	1
2-Chloronaphthalene	ND		170	28	ug/Kg		12/09/19 15:01	12/10/19 14:53	1
2-Chlorophenol	ND		330	31	ug/Kg		12/09/19 15:01	12/10/19 14:53	1
2-Methylphenol	ND		170	20	ug/Kg		12/09/19 15:01	12/10/19 14:53	1
2-Methylnaphthalene	ND		170	34	ug/Kg		12/09/19 15:01	12/10/19 14:53	1
2-Nitroaniline	ND		330	25	ug/Kg		12/09/19 15:01	12/10/19 14:53	1
2-Nitrophenol	ND		170	48	ug/Kg		12/09/19 15:01	12/10/19 14:53	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		12/09/19 15:01	12/10/19 14:53	1
3-Nitroaniline	ND		330	47	ug/Kg		12/09/19 15:01	12/10/19 14:53	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		12/09/19 15:01	12/10/19 14:53	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		12/09/19 15:01	12/10/19 14:53	1
4-Chloro-3-methylphenol	ND		170	42	ug/Kg		12/09/19 15:01	12/10/19 14:53	1
4-Chloroaniline	ND		170	42	ug/Kg		12/09/19 15:01	12/10/19 14:53	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		12/09/19 15:01	12/10/19 14:53	1

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 480-508877/1-A**

**Matrix: Solid**

**Analysis Batch: 509077**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 508877**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol	ND		330	20	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
4-Nitroaniline	ND		330	88	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
4-Nitrophenol	ND		330	120	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Acenaphthene	ND		170	25	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Acenaphthylene	ND		170	22	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Acetophenone	ND		170	23	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Anthracene	ND		170	42	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Atrazine	ND		170	59	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Benzaldehyde	ND		170	130	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Benzo[a]anthracene	ND		170	17	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Benzo[a]pyrene	ND		170	25	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Benzo[b]fluoranthene	ND		170	27	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Benzo[g,h,i]perylene	ND		170	18	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Benzo[k]fluoranthene	ND		170	22	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Bis(2-ethylhexyl) phthalate	ND		170	58	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Butyl benzyl phthalate	ND		170	28	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Caprolactam	ND		170	51	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Carbazole	ND		170	20	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Chrysene	ND		170	38	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Dibenz(a,h)anthracene	ND		170	30	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Di-n-butyl phthalate	ND		170	29	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Di-n-octyl phthalate	ND		170	20	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Dibenzofuran	ND		170	20	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Diethyl phthalate	ND		170	22	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Dimethyl phthalate	ND		170	20	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Fluoranthene	ND		170	18	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Fluorene	ND		170	20	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Hexachlorobenzene	ND		170	23	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Hexachlorobutadiene	ND		170	25	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Hexachlorocyclopentadiene	ND		170	23	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Hexachloroethane	ND		170	22	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Isophorone	ND		170	36	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
N-Nitrosodiphenylamine	ND		170	140	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Naphthalene	ND		170	22	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Nitrobenzene	ND		170	19	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Pentachlorophenol	ND		330	170	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Phenanthrene	ND		170	25	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Phenol	ND		170	26	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	
Pyrene	ND		170	20	ug/Kg	12/09/19 15:01	12/10/19 14:53	1	

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	83		53 - 120	12/09/19 15:01	12/10/19 14:53	1
Phenol-d5 (Surr)	75		54 - 120	12/09/19 15:01	12/10/19 14:53	1
p-Terphenyl-d14 (Surr)	105		79 - 130	12/09/19 15:01	12/10/19 14:53	1

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: LaBella Associates DPC  
 Project/Site: Church Street Project

Job ID: 480-163813-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID:** MB 480-508877/1-A

**Matrix:** Solid

**Analysis Batch:** 509077

**Client Sample ID:** Method Blank

**Prep Type:** Total/NA

**Prep Batch:** 508877

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	87		54 - 120	12/09/19 15:01	12/10/19 14:53	1
2-Fluorobiphenyl	88		60 - 120	12/09/19 15:01	12/10/19 14:53	1
2-Fluorophenol (Surr)	74		52 - 120	12/09/19 15:01	12/10/19 14:53	1

**Lab Sample ID:** LCS 480-508877/2-A

**Matrix:** Solid

**Analysis Batch:** 509077

**Client Sample ID:** Lab Control Sample

**Prep Type:** Total/NA

**Prep Batch:** 508877

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Biphenyl	1670	1450		ug/Kg		87	59 - 120	
bis (2-chloroisopropyl) ether	1670	989		ug/Kg		59	44 - 120	
2,4,5-Trichlorophenol	1670	1550		ug/Kg		93	59 - 126	
2,4,6-Trichlorophenol	1670	1460		ug/Kg		88	59 - 123	
2,4-Dichlorophenol	1670	1410		ug/Kg		84	61 - 120	
2,4-Dimethylphenol	1670	1440		ug/Kg		87	59 - 120	
2,4-Dinitrophenol	3330	2750		ug/Kg		83	41 - 146	
2,4-Dinitrotoluene	1670	1610		ug/Kg		97	63 - 120	
2,6-Dinitrotoluene	1670	1520		ug/Kg		91	66 - 120	
2-Chloronaphthalene	1670	1440		ug/Kg		87	57 - 120	
2-Chlorophenol	1670	1200		ug/Kg		72	53 - 120	
2-Methylphenol	1670	1160		ug/Kg		70	54 - 120	
2-Methylnaphthalene	1670	1360		ug/Kg		82	59 - 120	
2-Nitroaniline	1670	1440		ug/Kg		87	61 - 120	
2-Nitrophenol	1670	1320		ug/Kg		79	56 - 120	
3,3'-Dichlorobenzidine	3330	3190		ug/Kg		96	54 - 120	
3-Nitroaniline	1670	1360		ug/Kg		81	48 - 120	
4,6-Dinitro-2-methylphenol	3330	3070		ug/Kg		92	49 - 122	
4-Bromophenyl phenyl ether	1670	1650		ug/Kg		99	58 - 120	
4-Chloro-3-methylphenol	1670	1420		ug/Kg		85	61 - 120	
4-Chloroaniline	1670	1240		ug/Kg		75	38 - 120	
4-Chlorophenyl phenyl ether	1670	1570		ug/Kg		94	63 - 124	
4-Methylphenol	1670	1190		ug/Kg		72	55 - 120	
4-Nitroaniline	1670	1410		ug/Kg		85	56 - 120	
4-Nitrophenol	3330	3690		ug/Kg		111	43 - 147	
Acenaphthene	1670	1510		ug/Kg		91	62 - 120	
Acenaphthylene	1670	1460		ug/Kg		88	58 - 121	
Acetophenone	1670	1260		ug/Kg		76	54 - 120	
Anthracene	1670	1620		ug/Kg		97	62 - 120	
Atrazine	3330	3360		ug/Kg		101	60 - 127	
Benzaldehyde	3330	1870		ug/Kg		56	10 - 150	
Benzo[a]anthracene	1670	1690		ug/Kg		101	65 - 120	
Benzo[a]pyrene	1670	1620		ug/Kg		97	64 - 120	
Benzo[b]fluoranthene	1670	1700		ug/Kg		102	64 - 120	
Benzo[g,h,i]perylene	1670	1540		ug/Kg		93	45 - 145	
Benzo[k]fluoranthene	1670	1580		ug/Kg		95	65 - 120	
Bis(2-chloroethoxy)methane	1670	1250		ug/Kg		75	55 - 120	
Bis(2-chloroethyl)ether	1670	1100		ug/Kg		66	45 - 120	
Bis(2-ethylhexyl) phthalate	1670	1780		ug/Kg		107	61 - 133	

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 480-508877/2-A**

**Matrix: Solid**

**Analysis Batch: 509077**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 508877**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Butyl benzyl phthalate	1670	1800		ug/Kg		108	61 - 129
Caprolactam	3330	2760		ug/Kg		83	47 - 120
Carbazole	1670	1600		ug/Kg		96	65 - 120
Chrysene	1670	1720		ug/Kg		103	64 - 120
Dibenz(a,h)anthracene	1670	1640		ug/Kg		98	54 - 132
Di-n-butyl phthalate	1670	1750		ug/Kg		105	58 - 130
Di-n-octyl phthalate	1670	1750		ug/Kg		105	57 - 133
Dibenzofuran	1670	1500		ug/Kg		90	63 - 120
Diethyl phthalate	1670	1670		ug/Kg		100	66 - 120
Dimethyl phthalate	1670	1610		ug/Kg		96	65 - 124
Fluoranthene	1670	1650		ug/Kg		99	62 - 120
Fluorene	1670	1510		ug/Kg		90	63 - 120
Hexachlorobenzene	1670	1650		ug/Kg		99	60 - 120
Hexachlorobutadiene	1670	1580		ug/Kg		95	45 - 120
Hexachlorocyclopentadiene	1670	1410		ug/Kg		85	47 - 120
Hexachloroethane	1670	1210		ug/Kg		72	41 - 120
Indeno[1,2,3-cd]pyrene	1670	1610		ug/Kg		96	56 - 134
Isophorone	1670	1350		ug/Kg		81	56 - 120
N-Nitrosodi-n-propylamine	1670	1170		ug/Kg		70	52 - 120
N-Nitrosodiphenylamine	1670	1540		ug/Kg		92	51 - 128
Naphthalene	1670	1350		ug/Kg		81	55 - 120
Nitrobenzene	1670	1280		ug/Kg		77	54 - 120
Pentachlorophenol	3330	2500		ug/Kg		75	51 - 120
Phenanthrene	1670	1570		ug/Kg		94	60 - 120
Phenol	1670	1100		ug/Kg		66	53 - 120
Pyrene	1670	1800		ug/Kg		108	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	78		53 - 120
Phenol-d5 (Surr)	66		54 - 120
p-Terphenyl-d14 (Surr)	100		79 - 130
2,4,6-Tribromophenol (Surr)	96		54 - 120
2-Fluorobiphenyl	87		60 - 120
2-Fluorophenol (Surr)	68		52 - 120

**Lab Sample ID: 480-163813-3 MS**

**Matrix: Solid**

**Analysis Batch: 509077**

**Client Sample ID: TP #5, 1-2**

**Prep Type: Total/NA**

**Prep Batch: 508877**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Biphenyl	ND		1990	1840		ug/Kg	⊗	93	58 - 120
bis (2-chloroisopropyl) ether	ND	F2	1990	1290		ug/Kg	⊗	65	31 - 120
2,4,5-Trichlorophenol	ND		1990	1910		ug/Kg	⊗	96	46 - 120
2,4,6-Trichlorophenol	ND		1990	1860		ug/Kg	⊗	94	41 - 123
2,4-Dichlorophenol	ND		1990	1700		ug/Kg	⊗	85	45 - 120
2,4-Dimethylphenol	ND		1990	1660		ug/Kg	⊗	83	52 - 120
2,4-Dinitrophenol	ND		3970	ND		ug/Kg	⊗	NC	41 - 146
2,4-Dinitrotoluene	ND		1990	1970		ug/Kg	⊗	99	63 - 125

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: LaBella Associates DPC  
 Project/Site: Church Street Project

Job ID: 480-163813-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 480-163813-3 MS**

**Matrix: Solid**

**Analysis Batch: 509077**

**Client Sample ID: TP #5, 1-2**

**Prep Type: Total/NA**

**Prep Batch: 508877**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.	Limits
2,6-Dinitrotoluene	ND		1990	1810		ug/Kg	⊗	91	66 - 120	
2-Chloronaphthalene	ND		1990	1860		ug/Kg	⊗	94	57 - 120	
2-Chlorophenol	ND		1990	1500 J		ug/Kg	⊗	75	43 - 120	
2-Methylphenol	ND		1990	1560		ug/Kg	⊗	78	48 - 120	
2-Methylnaphthalene	ND		1990	1900		ug/Kg	⊗	96	55 - 120	
2-Nitroaniline	ND		1990	1830 J		ug/Kg	⊗	92	61 - 120	
2-Nitrophenol	ND F2		1990	1640		ug/Kg	⊗	82	37 - 120	
3,3'-Dichlorobenzidine	ND		3970	3060		ug/Kg	⊗	77	37 - 126	
3-Nitroaniline	ND		1990	1630 J		ug/Kg	⊗	82	48 - 120	
4,6-Dinitro-2-methylphenol	ND		3970	3290		ug/Kg	⊗	83	23 - 149	
4-Bromophenyl phenyl ether	ND		1990	1950		ug/Kg	⊗	98	58 - 120	
4-Chloro-3-methylphenol	ND		1990	1720		ug/Kg	⊗	87	49 - 125	
4-Chloroaniline	ND		1990	1270		ug/Kg	⊗	64	38 - 120	
4-Chlorophenyl phenyl ether	ND		1990	1980		ug/Kg	⊗	100	63 - 124	
4-Methylphenol	ND		1990	1600 J		ug/Kg	⊗	81	50 - 120	
4-Nitroaniline	ND		1990	1590 J		ug/Kg	⊗	80	47 - 120	
4-Nitrophenol	ND		3970	4080		ug/Kg	⊗	103	31 - 147	
Acenaphthene	ND		1990	1930		ug/Kg	⊗	97	60 - 120	
Acenaphthylene	ND		1990	2060		ug/Kg	⊗	104	58 - 121	
Acetophenone	ND F2		1990	1790		ug/Kg	⊗	90	47 - 120	
Anthracene	ND F1 F2		1990	2540 F1		ug/Kg	⊗	128	62 - 120	
Atrazine	ND		3970	3930		ug/Kg	⊗	99	60 - 150	
Benzaldehyde	ND		3970	2560		ug/Kg	⊗	64	10 - 150	
Benzo[a]anthracene	1200 F1 F2		1990	4770 F1		ug/Kg	⊗	182	65 - 120	
Benzo[a]pyrene	970 J F1 F2		1990	4140 F1		ug/Kg	⊗	159	64 - 120	
Benzo[b]fluoranthene	1200 F1 F2		1990	4400 F1		ug/Kg	⊗	163	10 - 150	
Benzo[g,h,i]perylene	600 J F2		1990	3420		ug/Kg	⊗	142	45 - 145	
Benzo[k]fluoranthene	500 J F2		1990	3020		ug/Kg	⊗	127	23 - 150	
Bis(2-chloroethoxy)methane	ND F2		1990	1620		ug/Kg	⊗	82	52 - 120	
Bis(2-chloroethyl)ether	ND F2		1990	1440		ug/Kg	⊗	73	45 - 120	
Bis(2-ethylhexyl) phthalate	ND		1990	2110		ug/Kg	⊗	106	61 - 133	
Butyl benzyl phthalate	ND		1990	2140		ug/Kg	⊗	107	61 - 120	
Caprolactam	ND		3970	3070		ug/Kg	⊗	77	37 - 133	
Carbazole	ND		1990	2090		ug/Kg	⊗	105	59 - 120	
Chrysene	1100 F1 F2		1990	4320 F1		ug/Kg	⊗	164	64 - 120	
Dibenz(a,h)anthracene	220 J F2		1990	2580		ug/Kg	⊗	119	54 - 132	
Di-n-butyl phthalate	ND		1990	2110		ug/Kg	⊗	106	58 - 130	
Di-n-octyl phthalate	ND		1990	2060		ug/Kg	⊗	104	57 - 133	
Dibenzofuran	ND		1990	1930		ug/Kg	⊗	97	62 - 120	
Diethyl phthalate	ND		1990	1940		ug/Kg	⊗	98	66 - 120	
Dimethyl phthalate	ND		1990	1960		ug/Kg	⊗	99	65 - 124	
Fluoranthene	2200 F1 F2		1990	7120 F1		ug/Kg	⊗	250	62 - 120	
Fluorene	ND		1990	1980		ug/Kg	⊗	100	63 - 120	
Hexachlorobenzene	ND		1990	2090		ug/Kg	⊗	105	60 - 120	
Hexachlorobutadiene	ND		1990	2100		ug/Kg	⊗	106	45 - 120	
Hexachlorocyclopentadiene	ND		1990	1340		ug/Kg	⊗	67	31 - 120	
Hexachloroethane	ND		1990	1630		ug/Kg	⊗	82	21 - 120	
Indeno[1,2,3-cd]pyrene	500 J F1 F2		1990	3310 F1		ug/Kg	⊗	142	56 - 134	
Isophorone	ND		1990	1570		ug/Kg	⊗	79	56 - 120	

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 480-163813-3 MS**

**Matrix: Solid**

**Analysis Batch: 509077**

**Client Sample ID: TP #5, 1-2**

**Prep Type: Total/NA**

**Prep Batch: 508877**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.	Limits
N-Nitrosodi-n-propylamine	ND		1990	1520		ug/Kg	⊗	76	46 - 120	
N-Nitrosodiphenylamine	ND		1990	1930		ug/Kg	⊗	97	20 - 128	
Naphthalene	ND		1990	1820		ug/Kg	⊗	92	46 - 120	
Nitrobenzene	ND		1990	1610		ug/Kg	⊗	81	49 - 120	
Pentachlorophenol	ND		3970	2950		ug/Kg	⊗	74	25 - 136	
Phenanthrene	770	J F1 F2	1990	3950	F1	ug/Kg	⊗	160	60 - 122	
Phenol	ND		1990	1420		ug/Kg	⊗	72	50 - 120	
Pyrene	2000	F1 F2	1990	6470	F1	ug/Kg	⊗	225	61 - 133	
Surrogate	MS %Recovery	MS Qualifier	MS Limits							
Nitrobenzene-d5 (Surr)	85		53 - 120							
Phenol-d5 (Surr)	78		54 - 120							
p-Terphenyl-d14 (Surr)	98		79 - 130							
2,4,6-Tribromophenol (Surr)	107		54 - 120							
2-Fluorobiphenyl	91		60 - 120							
2-Fluorophenol (Surr)	76		52 - 120							

**Lab Sample ID: 480-163813-3 MSD**

**Matrix: Solid**

**Analysis Batch: 509077**

**Client Sample ID: TP #5, 1-2**

**Prep Type: Total/NA**

**Prep Batch: 508877**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.	RPD	Limit
Biphenyl	ND		2020	1700		ug/Kg	⊗	84	58 - 120	8	20
bis (2-chloroisopropyl) ether	ND	F2	2020	922	J F2	ug/Kg	⊗	46	31 - 120	33	24
2,4,5-Trichlorophenol	ND		2020	1820		ug/Kg	⊗	90	46 - 120	5	18
2,4,6-Trichlorophenol	ND		2020	1710		ug/Kg	⊗	85	41 - 123	8	19
2,4-Dichlorophenol	ND		2020	1620		ug/Kg	⊗	80	45 - 120	5	19
2,4-Dimethylphenol	ND		2020	1510		ug/Kg	⊗	75	52 - 120	9	42
2,4-Dinitrophenol	ND		4040	ND		ug/Kg	⊗	NC	41 - 146	NC	22
2,4-Dinitrotoluene	ND		2020	1980		ug/Kg	⊗	98	63 - 125	0	20
2,6-Dinitrotoluene	ND		2020	1950		ug/Kg	⊗	96	66 - 120	7	15
2-Chloronaphthalene	ND		2020	1690		ug/Kg	⊗	84	57 - 120	10	21
2-Chlorophenol	ND		2020	1220	J	ug/Kg	⊗	60	43 - 120	21	25
2-Methylphenol	ND		2020	1230		ug/Kg	⊗	61	48 - 120	23	27
2-Methylnaphthalene	ND		2020	1730		ug/Kg	⊗	86	55 - 120	9	21
2-Nitroaniline	ND		2020	1810	J	ug/Kg	⊗	90	61 - 120	1	15
2-Nitrophenol	ND	F2	2020	1210	F2	ug/Kg	⊗	60	37 - 120	30	18
3,3'-Dichlorobenzidine	ND		4040	3770		ug/Kg	⊗	93	37 - 126	21	25
3-Nitroaniline	ND		2020	1810	J	ug/Kg	⊗	89	48 - 120	10	19
4,6-Dinitro-2-methylphenol	ND		4040	2850		ug/Kg	⊗	70	23 - 149	14	15
4-Bromophenyl phenyl ether	ND		2020	2050		ug/Kg	⊗	101	58 - 120	5	15
4-Chloro-3-methylphenol	ND		2020	1670		ug/Kg	⊗	82	49 - 125	3	27
4-Chloroaniline	ND		2020	1340		ug/Kg	⊗	66	38 - 120	5	22
4-Chlorophenyl phenyl ether	ND		2020	1980		ug/Kg	⊗	98	63 - 124	0	16
4-Methylphenol	ND		2020	1410	J	ug/Kg	⊗	70	50 - 120	13	24
4-Nitroaniline	ND		2020	1630	J	ug/Kg	⊗	80	47 - 120	2	24
4-Nitrophenol	ND		4040	4210		ug/Kg	⊗	104	31 - 147	3	25
Acenaphthene	ND		2020	1790		ug/Kg	⊗	89	60 - 120	7	35

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 480-163813-3 MSD**

**Matrix: Solid**

**Analysis Batch: 509077**

**Client Sample ID: TP #5, 1-2**

**Prep Type: Total/NA**

**Prep Batch: 508877**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthylene	ND		2020	1900	ug/Kg	⊗	94	58 - 121	8	18	
Acetophenone	ND	F2	2020	1290	F2	ug/Kg	⊗	64	47 - 120	32	20
Anthracene	ND	F1 F2	2020	2070	F2	ug/Kg	⊗	102	62 - 120	21	15
Atrazine	ND		4040	4260	ug/Kg	⊗	105	60 - 150	8	20	
Benzaldehyde	ND		4040	2090	ug/Kg	⊗	52	10 - 150	20	20	
Benzo[a]anthracene	1200	F1 F2	2020	2810	F2	ug/Kg	⊗	81	65 - 120	52	15
Benzo[a]pyrene	970	J F1 F2	2020	2500	F2	ug/Kg	⊗	76	64 - 120	49	15
Benzo[b]fluoranthene	1200	F1 F2	2020	2840	F2	ug/Kg	⊗	83	10 - 150	43	15
Benzo[g,h,i]perylene	600	J F2	2020	2480	F2	ug/Kg	⊗	93	45 - 145	32	15
Benzo[k]fluoranthene	500	J F2	2020	2100	F2	ug/Kg	⊗	79	23 - 150	36	22
Bis(2-chloroethoxy)methane	ND	F2	2020	1350	F2	ug/Kg	⊗	67	52 - 120	19	17
Bis(2-chloroethyl)ether	ND	F2	2020	974	J F2	ug/Kg	⊗	48	45 - 120	39	21
Bis(2-ethylhexyl) phthalate	ND		2020	2140	ug/Kg	⊗	106	61 - 133	2	15	
Butyl benzyl phthalate	ND		2020	2110	ug/Kg	⊗	104	61 - 120	1	16	
Caprolactam	ND		4040	3420	ug/Kg	⊗	85	37 - 133	11	20	
Carbazole	ND		2020	1950	ug/Kg	⊗	96	59 - 120	7	20	
Chrysene	1100	F1 F2	2020	2720	F2	ug/Kg	⊗	82	64 - 120	45	15
Dibenz(a,h)anthracene	220	J F2	2020	2060	F2	ug/Kg	⊗	91	54 - 132	22	15
Di-n-butyl phthalate	ND		2020	2120	ug/Kg	⊗	105	58 - 130	1	15	
Di-n-octyl phthalate	ND		2020	2150	ug/Kg	⊗	106	57 - 133	4	16	
Dibenzofuran	ND		2020	1860	ug/Kg	⊗	92	62 - 120	4	15	
Diethyl phthalate	ND		2020	1970	ug/Kg	⊗	98	66 - 120	2	15	
Dimethyl phthalate	ND		2020	1960	ug/Kg	⊗	97	65 - 124	0	15	
Fluoranthene	2200	F1 F2	2020	3240	F1 F2	ug/Kg	⊗	54	62 - 120	75	15
Fluorene	ND		2020	1900	ug/Kg	⊗	94	63 - 120	4	15	
Hexachlorobenzene	ND		2020	2130	ug/Kg	⊗	105	60 - 120	2	15	
Hexachlorobutadiene	ND		2020	1400	ug/Kg	⊗	69	45 - 120	40	44	
Hexachlorocyclopentadiene	ND		2020	1210	ug/Kg	⊗	60	31 - 120	10	49	
Hexachloroethane	ND		2020	1070	ug/Kg	⊗	53	21 - 120	42	46	
Indeno[1,2,3-cd]pyrene	500	J F1 F2	2020	2340	F2	ug/Kg	⊗	91	56 - 134	34	15
Isophorone	ND		2020	1410	ug/Kg	⊗	70	56 - 120	11	17	
N-Nitrosodi-n-propylamine	ND		2020	1270	ug/Kg	⊗	63	46 - 120	18	31	
N-Nitrosodiphenylamine	ND		2020	1820	ug/Kg	⊗	90	20 - 128	6	15	
Naphthalene	ND		2020	1430	ug/Kg	⊗	71	46 - 120	25	29	
Nitrobenzene	ND		2020	1320	ug/Kg	⊗	65	49 - 120	20	24	
Pentachlorophenol	ND		4040	2630	ug/Kg	⊗	65	25 - 136	11	35	
Phenanthrene	770	J F1 F2	2020	2560	F2	ug/Kg	⊗	88	60 - 122	43	15
Phenol	ND		2020	1170	ug/Kg	⊗	58	50 - 120	19	35	
Pyrene	2000	F1 F2	2020	3170	F1 F2	ug/Kg	⊗	58	61 - 133	68	35
<b>Surrogate</b>	<b>MSD %Recovery</b>	<b>MSD Qualifier</b>		<b>Limits</b>							
<i>Nitrobenzene-d5 (Surr)</i>	61			53 - 120							
<i>Phenol-d5 (Surr)</i>	58			54 - 120							
<i>p-Terphenyl-d14 (Surr)</i>	97			79 - 130							
<i>2,4,6-Tribromophenol (Surr)</i>	103			54 - 120							
<i>2-Fluorobiphenyl</i>	83			60 - 120							
<i>2-Fluorophenol (Surr)</i>	47	X		52 - 120							

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID:** MB 480-508728/1-A

**Matrix:** Solid

**Analysis Batch:** 508966

**Client Sample ID:** Method Blank

**Prep Type:** Total/NA

**Prep Batch:** 508728

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.19	0.037	mg/Kg		12/09/19 07:45	12/10/19 09:56	1
PCB-1221	ND		0.19	0.037	mg/Kg		12/09/19 07:45	12/10/19 09:56	1
PCB-1232	ND		0.19	0.037	mg/Kg		12/09/19 07:45	12/10/19 09:56	1
PCB-1242	ND		0.19	0.037	mg/Kg		12/09/19 07:45	12/10/19 09:56	1
PCB-1248	ND		0.19	0.037	mg/Kg		12/09/19 07:45	12/10/19 09:56	1
PCB-1254	ND		0.19	0.088	mg/Kg		12/09/19 07:45	12/10/19 09:56	1
PCB-1260	ND		0.19	0.088	mg/Kg		12/09/19 07:45	12/10/19 09:56	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	100		60 - 154	12/09/19 07:45	12/10/19 09:56	1
Tetrachloro-m-xylene	92		60 - 154	12/09/19 07:45	12/10/19 09:56	1
DCB Decachlorobiphenyl	101		65 - 174	12/09/19 07:45	12/10/19 09:56	1
DCB Decachlorobiphenyl	87		65 - 174	12/09/19 07:45	12/10/19 09:56	1

**Lab Sample ID:** LCS 480-508728/2-A

**Matrix:** Solid

**Analysis Batch:** 508966

**Client Sample ID:** Lab Control Sample

**Prep Type:** Total/NA

**Prep Batch:** 508728

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
PCB-1016	2.20	3.33		mg/Kg		151	51 - 185
PCB-1260	2.20	2.97		mg/Kg		135	61 - 184

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	138		60 - 154
Tetrachloro-m-xylene	116		60 - 154
DCB Decachlorobiphenyl	137		65 - 174
DCB Decachlorobiphenyl	116		65 - 174

**Lab Sample ID:** 480-163813-3 MS

**Matrix:** Solid

**Analysis Batch:** 508966

**Client Sample ID:** TP #5, 1-2

**Prep Type:** Total/NA

**Prep Batch:** 508728

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec.	Limits
PCB-1016	ND		2.28	2.64		mg/Kg	⊗	116	50 - 177
PCB-1260	ND		2.28	2.29		mg/Kg	⊗	101	33 - 200

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	115		60 - 154
Tetrachloro-m-xylene	103		60 - 154
DCB Decachlorobiphenyl	113		65 - 174
DCB Decachlorobiphenyl	96		65 - 174

**Lab Sample ID:** 480-163813-3 MSD

**Matrix:** Solid

**Analysis Batch:** 508966

**Client Sample ID:** TP #5, 1-2

**Prep Type:** Total/NA

**Prep Batch:** 508728

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec.	RPD
PCB-1016	ND		2.89	3.38		mg/Kg	⊗	117	50 - 177

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 480-163813-3 MSD

Matrix: Solid

Analysis Batch: 508966

Client Sample ID: TP #5, 1-2

Prep Type: Total/NA

Prep Batch: 508728

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec.	RPD	
	ND		2.89	2.87		mg/Kg	⊗	99	Limit	
PCB-1260								33 - 200	23	50

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
Tetrachloro-m-xylene	124		60 - 154
Tetrachloro-m-xylene	100		60 - 154
DCB Decachlorobiphenyl	113		65 - 174
DCB Decachlorobiphenyl	94		65 - 174

## Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-508809/1-A

Matrix: Solid

Analysis Batch: 509518

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 508809

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.39	mg/Kg		12/10/19 14:13	12/11/19 18:41	1
Barium	ND		0.49	0.11	mg/Kg		12/10/19 14:13	12/11/19 18:41	1
Cadmium	ND		0.20	0.030	mg/Kg		12/10/19 14:13	12/11/19 18:41	1
Chromium	ND		0.49	0.20	mg/Kg		12/10/19 14:13	12/11/19 18:41	1
Lead	ND		0.99	0.24	mg/Kg		12/10/19 14:13	12/11/19 18:41	1
Selenium	ND		3.9	0.39	mg/Kg		12/10/19 14:13	12/11/19 18:41	1
Silver	ND		0.59	0.20	mg/Kg		12/10/19 14:13	12/11/19 18:41	1

Lab Sample ID: LCSSRM 480-508809/2-A

Matrix: Solid

Analysis Batch: 509518

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 508809

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec.	Limits
Arsenic	138	120.8		mg/Kg		87.6	63.3 - 117.
Barium	589	449.9		mg/Kg		76.4	67.4 - 112.
Cadmium	42.3	31.28		mg/Kg		74.0	66.7 - 111.
Chromium	62.7	61.28		mg/Kg		97.7	65.1 - 120.
Lead	115	130.8		mg/Kg		113.7	68.4 - 124.
Selenium	281	218.1		mg/Kg		77.6	61.9 - 117.
Silver	30.0	24.96		mg/Kg		83.2	61.3 - 119.

Lab Sample ID: 480-163813-3 MS

Matrix: Solid

Analysis Batch: 509518

Client Sample ID: TP #5, 1-2

Prep Type: Total/NA

Prep Batch: 508809

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec.	Limits
Arsenic	19.2		46.9	60.03		mg/Kg	⊗	87	75 - 125
Barium	109	F1 F2	46.9	133.3	F1	mg/Kg	⊗	51	75 - 125
Cadmium	0.062	J	46.9	43.54		mg/Kg	⊗	93	75 - 125

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

## Method: 6010C - Metals (ICP) (Continued)

**Lab Sample ID: 480-163813-3 MS**

**Matrix: Solid**

**Analysis Batch: 509518**

**Client Sample ID: TP #5, 1-2**

**Prep Type: Total/NA**

**Prep Batch: 508809**

**%Rec.**

**Limits**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Chromium	12.3		46.9	56.41		mg/Kg	⊗	94	75 - 125
Lead	2340	F2	46.9	82.89	4	mg/Kg	⊗	-4807	75 - 125
Selenium	1.1	J	46.9	41.19		mg/Kg	⊗	85	75 - 125
Silver	ND		11.7	10.45		mg/Kg	⊗	89	75 - 125

**Lab Sample ID: 480-163813-3 MSD**

**Matrix: Solid**

**Analysis Batch: 509518**

**Client Sample ID: TP #5, 1-2**

**Prep Type: Total/NA**

**Prep Batch: 508809**

**%Rec.**

**RPD**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	19.2		48.6	62.15		mg/Kg	⊗	88	75 - 125	3	20
Barium	109	F1 F2	48.6	170.2	F2	mg/Kg	⊗	125	75 - 125	24	20
Cadmium	0.062	J	48.6	42.84		mg/Kg	⊗	88	75 - 125	2	20
Chromium	12.3		48.6	59.78		mg/Kg	⊗	98	75 - 125	6	20
Lead	2340	F2	48.6	140.1	4 F2	mg/Kg	⊗	-4518	75 - 125	51	20
Selenium	1.1	J	48.6	40.53		mg/Kg	⊗	81	75 - 125	2	20
Silver	ND		12.2	10.27		mg/Kg	⊗	84	75 - 125	2	20

## Method: 7471B - Mercury (CVAA)

**Lab Sample ID: MB 480-509970/1-A**

**Matrix: Solid**

**Analysis Batch: 509976**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 509970**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0080	mg/Kg		12/15/19 14:01	12/15/19 14:59	1

**Lab Sample ID: LCSSRM 480-509970/2-A ^5**

**Matrix: Solid**

**Analysis Batch: 509976**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 509970**

**%Rec.**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	Limits
Mercury	3.12	3.24		mg/Kg		103.9	56.4 - 131.

4

**Lab Sample ID: 480-163813-3 MS**

**Matrix: Solid**

**Analysis Batch: 509976**

**Client Sample ID: TP #5, 1-2**

**Prep Type: Total/NA**

**Prep Batch: 509970**

**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.45	F1	0.376	0.600	F1	mg/Kg	⊗	40	80 - 120

**Lab Sample ID: 480-163813-3 MSD**

**Matrix: Solid**

**Analysis Batch: 509976**

**Client Sample ID: TP #5, 1-2**

**Prep Type: Total/NA**

**Prep Batch: 509970**

**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.45	F1	0.403	0.581	F1	mg/Kg	⊗	33	80 - 120	3	20

Eurofins TestAmerica, Buffalo

# QC Association Summary

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

## GC/MS VOA

### Analysis Batch: 508746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163813-2	TP #3, 2-3	Total/NA	Solid	8260C	508768
480-163813-3	TP #5, 1-2	Total/NA	Solid	8260C	508768
480-163813-4	TP #6, 3-4	Total/NA	Solid	8260C	508768
480-163813-5	TP #9, 3	Total/NA	Solid	8260C	508768
480-163813-6	TP #1, 1-2	Total/NA	Solid	8260C	508768
MB 480-508768/2-A	Method Blank	Total/NA	Solid	8260C	508768
LCS 480-508768/1-A	Lab Control Sample	Total/NA	Solid	8260C	508768
480-163813-3 MS	TP #5, 1-2	Total/NA	Solid	8260C	508768
480-163813-3 MSD	TP #5, 1-2	Total/NA	Solid	8260C	508768

### Prep Batch: 508768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163813-2	TP #3, 2-3	Total/NA	Solid	5035A_L	10
480-163813-3	TP #5, 1-2	Total/NA	Solid	5035A_L	11
480-163813-4	TP #6, 3-4	Total/NA	Solid	5035A_L	12
480-163813-5	TP #9, 3	Total/NA	Solid	5035A_L	13
480-163813-6	TP #1, 1-2	Total/NA	Solid	5035A_L	14
MB 480-508768/2-A	Method Blank	Total/NA	Solid	5035A_L	15
LCS 480-508768/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
480-163813-3 MS	TP #5, 1-2	Total/NA	Solid	5035A_L	
480-163813-3 MSD	TP #5, 1-2	Total/NA	Solid	5035A_L	

### Analysis Batch: 508963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163813-1	TP #4, 1-2	Total/NA	Solid	8260C	509017
MB 480-509017/2-A	Method Blank	Total/NA	Solid	8260C	509017
LCS 480-509017/1-A	Lab Control Sample	Total/NA	Solid	8260C	509017

### Prep Batch: 509017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163813-1	TP #4, 1-2	Total/NA	Solid	5035A_L	
MB 480-509017/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-509017/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

### Prep Batch: 509237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163813-10	SAMPLE 1UST	Total/NA	Solid	5035A_H	
480-163813-11	SAMPLE 2UST	Total/NA	Solid	5035A_H	
480-163813-12	SAMPLE 3UST	Total/NA	Solid	5035A_H	
480-163813-13	SAMPLE 4UST	Total/NA	Solid	5035A_H	
MB 480-509237/2-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-509237/1-A	Lab Control Sample	Total/NA	Solid	5035A_H	

### Analysis Batch: 509448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163813-10	SAMPLE 1UST	Total/NA	Solid	8260C	509237
480-163813-11	SAMPLE 2UST	Total/NA	Solid	8260C	509237
480-163813-12	SAMPLE 3UST	Total/NA	Solid	8260C	509237
480-163813-13	SAMPLE 4UST	Total/NA	Solid	8260C	509237
MB 480-509237/2-A	Method Blank	Total/NA	Solid	8260C	509237
LCS 480-509237/1-A	Lab Control Sample	Total/NA	Solid	8260C	509237

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# QC Association Summary

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

## GC/MS Semi VOA

### Prep Batch: 508877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163813-1	TP #4, 1-2	Total/NA	Solid	3550C	1
480-163813-2	TP #3, 2-3	Total/NA	Solid	3550C	2
480-163813-3	TP #5, 1-2	Total/NA	Solid	3550C	3
480-163813-4	TP #6, 3-4	Total/NA	Solid	3550C	4
480-163813-5	TP #9, 3	Total/NA	Solid	3550C	5
480-163813-6	TP #1, 1-2	Total/NA	Solid	3550C	6
480-163813-7	TP9 SURFACE	Total/NA	Solid	3550C	7
480-163813-8	CHURCHSTREET BAYAREA	Total/NA	Solid	3550C	8
480-163813-9	UST PARKING AREA	Total/NA	Solid	3550C	9
480-163813-10	SAMPLE 1UST	Total/NA	Solid	3550C	10
480-163813-11	SAMPLE 2UST	Total/NA	Solid	3550C	11
480-163813-12	SAMPLE 3UST	Total/NA	Solid	3550C	12
480-163813-13	SAMPLE 4UST	Total/NA	Solid	3550C	13
MB 480-508877/1-A	Method Blank	Total/NA	Solid	3550C	14
LCS 480-508877/2-A	Lab Control Sample	Total/NA	Solid	3550C	15
480-163813-3 MS	TP #5, 1-2	Total/NA	Solid	3550C	
480-163813-3 MSD	TP #5, 1-2	Total/NA	Solid	3550C	

### Analysis Batch: 509077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163813-1	TP #4, 1-2	Total/NA	Solid	8270D	508877
480-163813-2	TP #3, 2-3	Total/NA	Solid	8270D	508877
480-163813-3	TP #5, 1-2	Total/NA	Solid	8270D	508877
480-163813-4	TP #6, 3-4	Total/NA	Solid	8270D	508877
480-163813-5	TP #9, 3	Total/NA	Solid	8270D	508877
480-163813-6	TP #1, 1-2	Total/NA	Solid	8270D	508877
480-163813-7	TP9 SURFACE	Total/NA	Solid	8270D	508877
480-163813-8	CHURCHSTREET BAYAREA	Total/NA	Solid	8270D	508877
480-163813-9	UST PARKING AREA	Total/NA	Solid	8270D	508877
480-163813-10	SAMPLE 1UST	Total/NA	Solid	8270D	508877
480-163813-11	SAMPLE 2UST	Total/NA	Solid	8270D	508877
480-163813-12	SAMPLE 3UST	Total/NA	Solid	8270D	508877
480-163813-13	SAMPLE 4UST	Total/NA	Solid	8270D	508877
MB 480-508877/1-A	Method Blank	Total/NA	Solid	8270D	508877
LCS 480-508877/2-A	Lab Control Sample	Total/NA	Solid	8270D	508877
480-163813-3 MS	TP #5, 1-2	Total/NA	Solid	8270D	508877
480-163813-3 MSD	TP #5, 1-2	Total/NA	Solid	8270D	508877

## GC Semi VOA

### Prep Batch: 508728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163813-1	TP #4, 1-2	Total/NA	Solid	3550C	
480-163813-2	TP #3, 2-3	Total/NA	Solid	3550C	
480-163813-3	TP #5, 1-2	Total/NA	Solid	3550C	
480-163813-4	TP #6, 3-4	Total/NA	Solid	3550C	
480-163813-5	TP #9, 3	Total/NA	Solid	3550C	
480-163813-6	TP #1, 1-2	Total/NA	Solid	3550C	
480-163813-7	TP9 SURFACE	Total/NA	Solid	3550C	
480-163813-8	CHURCHSTREET BAYAREA	Total/NA	Solid	3550C	
480-163813-9	UST PARKING AREA	Total/NA	Solid	3550C	

# QC Association Summary

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

## GC Semi VOA (Continued)

### Prep Batch: 508728 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-508728/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-508728/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-163813-3 MS	TP #5, 1-2	Total/NA	Solid	3550C	
480-163813-3 MSD	TP #5, 1-2	Total/NA	Solid	3550C	

### Analysis Batch: 508966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163813-1	TP #4, 1-2	Total/NA	Solid	8082A	508728
480-163813-2	TP #3, 2-3	Total/NA	Solid	8082A	508728
480-163813-3	TP #5, 1-2	Total/NA	Solid	8082A	508728
480-163813-4	TP #6, 3-4	Total/NA	Solid	8082A	508728
480-163813-5	TP #9, 3	Total/NA	Solid	8082A	508728
480-163813-6	TP #1, 1-2	Total/NA	Solid	8082A	508728
480-163813-7	TP9 SURFACE	Total/NA	Solid	8082A	508728
480-163813-8	CHURCHSTREET BAYAREA	Total/NA	Solid	8082A	508728
480-163813-9	UST PARKING AREA	Total/NA	Solid	8082A	508728
MB 480-508728/1-A	Method Blank	Total/NA	Solid	8082A	508728
LCS 480-508728/2-A	Lab Control Sample	Total/NA	Solid	8082A	508728
480-163813-3 MS	TP #5, 1-2	Total/NA	Solid	8082A	508728
480-163813-3 MSD	TP #5, 1-2	Total/NA	Solid	8082A	508728

## Metals

### Prep Batch: 508809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163813-1	TP #4, 1-2	Total/NA	Solid	3050B	
480-163813-2	TP #3, 2-3	Total/NA	Solid	3050B	
480-163813-3	TP #5, 1-2	Total/NA	Solid	3050B	
480-163813-4	TP #6, 3-4	Total/NA	Solid	3050B	
480-163813-5	TP #9, 3	Total/NA	Solid	3050B	
480-163813-6	TP #1, 1-2	Total/NA	Solid	3050B	
480-163813-7	TP9 SURFACE	Total/NA	Solid	3050B	
480-163813-8	CHURCHSTREET BAYAREA	Total/NA	Solid	3050B	
480-163813-9	UST PARKING AREA	Total/NA	Solid	3050B	
480-163813-10	SAMPLE 1UST	Total/NA	Solid	3050B	
480-163813-11	SAMPLE 2UST	Total/NA	Solid	3050B	
480-163813-12	SAMPLE 3UST	Total/NA	Solid	3050B	
480-163813-13	SAMPLE 4UST	Total/NA	Solid	3050B	
MB 480-508809/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-508809/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-163813-3 MS	TP #5, 1-2	Total/NA	Solid	3050B	
480-163813-3 MSD	TP #5, 1-2	Total/NA	Solid	3050B	

### Analysis Batch: 509518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163813-1	TP #4, 1-2	Total/NA	Solid	6010C	508809
480-163813-2	TP #3, 2-3	Total/NA	Solid	6010C	508809
480-163813-3	TP #5, 1-2	Total/NA	Solid	6010C	508809
480-163813-4	TP #6, 3-4	Total/NA	Solid	6010C	508809
480-163813-5	TP #9, 3	Total/NA	Solid	6010C	508809
480-163813-6	TP #1, 1-2	Total/NA	Solid	6010C	508809

# QC Association Summary

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

## Metals (Continued)

### Analysis Batch: 509518 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163813-7	TP9 SURFACE	Total/NA	Solid	6010C	508809
480-163813-8	CHURCHSTREET BAYAREA	Total/NA	Solid	6010C	508809
480-163813-9	UST PARKING AREA	Total/NA	Solid	6010C	508809
480-163813-10	SAMPLE 1UST	Total/NA	Solid	6010C	508809
480-163813-11	SAMPLE 2UST	Total/NA	Solid	6010C	508809
480-163813-12	SAMPLE 3UST	Total/NA	Solid	6010C	508809
480-163813-13	SAMPLE 4UST	Total/NA	Solid	6010C	508809
MB 480-508809/1-A	Method Blank	Total/NA	Solid	6010C	508809
LCSSRM 480-508809/2-A	Lab Control Sample	Total/NA	Solid	6010C	508809
480-163813-3 MS	TP #5, 1-2	Total/NA	Solid	6010C	508809
480-163813-3 MSD	TP #5, 1-2	Total/NA	Solid	6010C	508809

### Prep Batch: 509970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163813-1	TP #4, 1-2	Total/NA	Solid	7471B	11
480-163813-2	TP #3, 2-3	Total/NA	Solid	7471B	12
480-163813-3	TP #5, 1-2	Total/NA	Solid	7471B	13
480-163813-4	TP #6, 3-4	Total/NA	Solid	7471B	14
480-163813-5	TP #9, 3	Total/NA	Solid	7471B	15
480-163813-6	TP #1, 1-2	Total/NA	Solid	7471B	
480-163813-7	TP9 SURFACE	Total/NA	Solid	7471B	
480-163813-8	CHURCHSTREET BAYAREA	Total/NA	Solid	7471B	
480-163813-9	UST PARKING AREA	Total/NA	Solid	7471B	
480-163813-10	SAMPLE 1UST	Total/NA	Solid	7471B	
480-163813-11	SAMPLE 2UST	Total/NA	Solid	7471B	
480-163813-12	SAMPLE 3UST	Total/NA	Solid	7471B	
480-163813-13	SAMPLE 4UST	Total/NA	Solid	7471B	
MB 480-509970/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-509970/2-A ^5	Lab Control Sample	Total/NA	Solid	7471B	
480-163813-3 MS	TP #5, 1-2	Total/NA	Solid	7471B	
480-163813-3 MSD	TP #5, 1-2	Total/NA	Solid	7471B	

### Analysis Batch: 509976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163813-1	TP #4, 1-2	Total/NA	Solid	7471B	509970
480-163813-2	TP #3, 2-3	Total/NA	Solid	7471B	509970
480-163813-3	TP #5, 1-2	Total/NA	Solid	7471B	509970
480-163813-4	TP #6, 3-4	Total/NA	Solid	7471B	509970
480-163813-5	TP #9, 3	Total/NA	Solid	7471B	509970
480-163813-6	TP #1, 1-2	Total/NA	Solid	7471B	509970
480-163813-7	TP9 SURFACE	Total/NA	Solid	7471B	509970
480-163813-8	CHURCHSTREET BAYAREA	Total/NA	Solid	7471B	509970
480-163813-9	UST PARKING AREA	Total/NA	Solid	7471B	509970
480-163813-10	SAMPLE 1UST	Total/NA	Solid	7471B	509970
480-163813-11	SAMPLE 2UST	Total/NA	Solid	7471B	509970
480-163813-12	SAMPLE 3UST	Total/NA	Solid	7471B	509970
480-163813-13	SAMPLE 4UST	Total/NA	Solid	7471B	509970
MB 480-509970/1-A	Method Blank	Total/NA	Solid	7471B	509970
LCSSRM 480-509970/2-A ^5	Lab Control Sample	Total/NA	Solid	7471B	509970
480-163813-3 MS	TP #5, 1-2	Total/NA	Solid	7471B	509970
480-163813-3 MSD	TP #5, 1-2	Total/NA	Solid	7471B	509970

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# QC Association Summary

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

## General Chemistry

### Analysis Batch: 508893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163813-1	TP #4, 1-2	Total/NA	Solid	Moisture	1
480-163813-2	TP #3, 2-3	Total/NA	Solid	Moisture	2
480-163813-3	TP #5, 1-2	Total/NA	Solid	Moisture	3
480-163813-4	TP #6, 3-4	Total/NA	Solid	Moisture	4
480-163813-5	TP #9, 3	Total/NA	Solid	Moisture	5
480-163813-6	TP #1, 1-2	Total/NA	Solid	Moisture	6
480-163813-10	SAMPLE 1UST	Total/NA	Solid	Moisture	7
480-163813-11	SAMPLE 2UST	Total/NA	Solid	Moisture	8
480-163813-12	SAMPLE 3UST	Total/NA	Solid	Moisture	9
480-163813-13	SAMPLE 4UST	Total/NA	Solid	Moisture	10
480-163813-3 MS	TP #5, 1-2	Total/NA	Solid	Moisture	11
480-163813-3 MSD	TP #5, 1-2	Total/NA	Solid	Moisture	12

### Analysis Batch: 509126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-163813-7	TP9 SURFACE	Total/NA	Solid	Moisture	11
480-163813-8	CHURCHSTREET BAYAREA	Total/NA	Solid	Moisture	12
480-163813-9	UST PARKING AREA	Total/NA	Solid	Moisture	13

# Lab Chronicle

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

**Client Sample ID: TP #4, 1-2**  
Date Collected: 12/05/19 08:48  
Date Received: 12/06/19 15:25

**Lab Sample ID: 480-163813-1**  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	508893	12/09/19 15:49	WJD	TAL BUF

**Client Sample ID: TP #4, 1-2**  
Date Collected: 12/05/19 08:48  
Date Received: 12/06/19 15:25

**Lab Sample ID: 480-163813-1**  
Matrix: Solid  
Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			509017	12/07/19 08:00	WJD	TAL BUF
Total/NA	Analysis	8260C		1	508963	12/10/19 12:38	CDC	TAL BUF
Total/NA	Prep	3550C			508877	12/09/19 15:01	SGD	TAL BUF
Total/NA	Analysis	8270D		1	509077	12/10/19 16:59	PJQ	TAL BUF
Total/NA	Prep	3550C			508728	12/09/19 07:45	SMP	TAL BUF
Total/NA	Analysis	8082A		1	508966	12/10/19 11:51	W1T	TAL BUF
Total/NA	Prep	3050B			508809	12/10/19 14:13	ADM	TAL BUF
Total/NA	Analysis	6010C		1	509518	12/11/19 18:48	AMH	TAL BUF
Total/NA	Prep	7471B			509970	12/15/19 14:01	BMB	TAL BUF
Total/NA	Analysis	7471B		1	509976	12/15/19 15:01	BMB	TAL BUF

**Client Sample ID: TP #3, 2-3**  
Date Collected: 12/05/19 09:30  
Date Received: 12/06/19 15:25

**Lab Sample ID: 480-163813-2**  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	508893	12/09/19 15:49	WJD	TAL BUF

**Client Sample ID: TP #3, 2-3**  
Date Collected: 12/05/19 09:30  
Date Received: 12/06/19 15:25

**Lab Sample ID: 480-163813-2**  
Matrix: Solid  
Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			508768	12/07/19 08:00	WJD	TAL BUF
Total/NA	Analysis	8260C		1	508746	12/09/19 12:44	CDC	TAL BUF
Total/NA	Prep	3550C			508877	12/09/19 15:01	SGD	TAL BUF
Total/NA	Analysis	8270D		1	509077	12/10/19 17:24	PJQ	TAL BUF
Total/NA	Prep	3550C			508728	12/09/19 07:45	SMP	TAL BUF
Total/NA	Analysis	8082A		1	508966	12/10/19 12:04	W1T	TAL BUF
Total/NA	Prep	3050B			508809	12/10/19 14:13	ADM	TAL BUF
Total/NA	Analysis	6010C		1	509518	12/11/19 18:52	AMH	TAL BUF
Total/NA	Prep	7471B			509970	12/15/19 14:01	BMB	TAL BUF
Total/NA	Analysis	7471B		1	509976	12/15/19 15:02	BMB	TAL BUF

# Lab Chronicle

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

**Client Sample ID: TP #5, 1-2**  
**Date Collected: 12/05/19 10:10**  
**Date Received: 12/06/19 15:25**

**Lab Sample ID: 480-163813-3**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	508893	12/09/19 15:49	WJD	TAL BUF

**Client Sample ID: TP #5, 1-2**  
**Date Collected: 12/05/19 10:10**  
**Date Received: 12/06/19 15:25**

**Lab Sample ID: 480-163813-3**  
**Matrix: Solid**  
**Percent Solids: 81.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			508768	12/07/19 08:00	WJD	TAL BUF
Total/NA	Analysis	8260C		1	508746	12/09/19 13:10	CDC	TAL BUF
Total/NA	Prep	3550C			508877	12/09/19 15:01	SGD	TAL BUF
Total/NA	Analysis	8270D		5	509077	12/10/19 16:34	PJQ	TAL BUF
Total/NA	Prep	3550C			508728	12/09/19 07:45	SMP	TAL BUF
Total/NA	Analysis	8082A		1	508966	12/10/19 10:47	W1T	TAL BUF
Total/NA	Prep	3050B			508809	12/10/19 14:13	ADM	TAL BUF
Total/NA	Analysis	6010C		1	509518	12/11/19 18:56	AMH	TAL BUF
Total/NA	Prep	7471B			509970	12/15/19 14:01	BMB	TAL BUF
Total/NA	Analysis	7471B		1	509976	12/15/19 15:04	BMB	TAL BUF

**Client Sample ID: TP #6, 3-4**  
**Date Collected: 12/05/19 10:40**  
**Date Received: 12/06/19 15:25**

**Lab Sample ID: 480-163813-4**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	508893	12/09/19 15:49	WJD	TAL BUF

**Client Sample ID: TP #6, 3-4**  
**Date Collected: 12/05/19 10:40**  
**Date Received: 12/06/19 15:25**

**Lab Sample ID: 480-163813-4**  
**Matrix: Solid**  
**Percent Solids: 87.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			508768	12/07/19 08:00	WJD	TAL BUF
Total/NA	Analysis	8260C		1	508746	12/09/19 13:36	CDC	TAL BUF
Total/NA	Prep	3550C			508877	12/09/19 15:01	SGD	TAL BUF
Total/NA	Analysis	8270D		1	509077	12/10/19 17:49	PJQ	TAL BUF
Total/NA	Prep	3550C			508728	12/09/19 07:45	SMP	TAL BUF
Total/NA	Analysis	8082A		1	508966	12/10/19 12:17	W1T	TAL BUF
Total/NA	Prep	3050B			508809	12/10/19 14:13	ADM	TAL BUF
Total/NA	Analysis	6010C		1	509518	12/11/19 19:25	AMH	TAL BUF
Total/NA	Prep	7471B			509970	12/15/19 14:01	BMB	TAL BUF
Total/NA	Analysis	7471B		1	509976	12/15/19 15:09	BMB	TAL BUF

# Lab Chronicle

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

**Client Sample ID: TP #9, 3**  
**Date Collected: 12/05/19 12:30**  
**Date Received: 12/06/19 15:25**

**Lab Sample ID: 480-163813-5**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	508893	12/09/19 15:49	WJD	TAL BUF

**Client Sample ID: TP #9, 3**  
**Date Collected: 12/05/19 12:30**  
**Date Received: 12/06/19 15:25**

**Lab Sample ID: 480-163813-5**  
**Matrix: Solid**  
**Percent Solids: 79.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			508768	12/07/19 08:00	WJD	TAL BUF
Total/NA	Analysis	8260C		1	508746	12/09/19 14:01	CDC	TAL BUF
Total/NA	Prep	3550C			508877	12/09/19 15:01	SGD	TAL BUF
Total/NA	Analysis	8270D		10	509077	12/10/19 18:14	PJQ	TAL BUF
Total/NA	Prep	3550C			508728	12/09/19 07:45	SMP	TAL BUF
Total/NA	Analysis	8082A		1	508966	12/10/19 12:30	W1T	TAL BUF
Total/NA	Prep	3050B			508809	12/10/19 14:13	ADM	TAL BUF
Total/NA	Analysis	6010C		1	509518	12/11/19 19:28	AMH	TAL BUF
Total/NA	Prep	7471B			509970	12/15/19 14:01	BMB	TAL BUF
Total/NA	Analysis	7471B		1	509976	12/15/19 15:10	BMB	TAL BUF

**Client Sample ID: TP #1, 1-2**  
**Date Collected: 12/05/19 08:04**  
**Date Received: 12/06/19 15:25**

**Lab Sample ID: 480-163813-6**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	508893	12/09/19 15:49	WJD	TAL BUF

**Client Sample ID: TP #1, 1-2**  
**Date Collected: 12/05/19 08:04**  
**Date Received: 12/06/19 15:25**

**Lab Sample ID: 480-163813-6**  
**Matrix: Solid**  
**Percent Solids: 82.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			508768	12/07/19 08:00	WJD	TAL BUF
Total/NA	Analysis	8260C		1	508746	12/09/19 14:27	CDC	TAL BUF
Total/NA	Prep	3550C			508877	12/09/19 15:01	SGD	TAL BUF
Total/NA	Analysis	8270D		1	509077	12/10/19 18:39	PJQ	TAL BUF
Total/NA	Prep	3550C			508728	12/09/19 07:45	SMP	TAL BUF
Total/NA	Analysis	8082A		1	508966	12/10/19 12:43	W1T	TAL BUF
Total/NA	Prep	3050B			508809	12/10/19 14:13	ADM	TAL BUF
Total/NA	Analysis	6010C		1	509518	12/11/19 19:32	AMH	TAL BUF
Total/NA	Prep	7471B			509970	12/15/19 14:01	BMB	TAL BUF
Total/NA	Analysis	7471B		1	509976	12/15/19 15:14	BMB	TAL BUF

# Lab Chronicle

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

## **Client Sample ID: TP9 SURFACE**

Date Collected: 12/05/19 12:10  
Date Received: 12/06/19 15:25

## **Lab Sample ID: 480-163813-7**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	509126	12/10/19 15:08	BAS	TAL BUF

## **Client Sample ID: TP9 SURFACE**

Date Collected: 12/05/19 12:10  
Date Received: 12/06/19 15:25

## **Lab Sample ID: 480-163813-7**

Matrix: Solid  
Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			508877	12/09/19 15:01	SGD	TAL BUF
Total/NA	Analysis	8270D		10	509077	12/10/19 19:05	PJQ	TAL BUF
Total/NA	Prep	3550C			508728	12/09/19 07:45	SMP	TAL BUF
Total/NA	Analysis	8082A		1	508966	12/10/19 12:55	W1T	TAL BUF
Total/NA	Prep	3050B			508809	12/10/19 14:13	ADM	TAL BUF
Total/NA	Analysis	6010C		1	509518	12/11/19 19:36	AMH	TAL BUF
Total/NA	Prep	7471B			509970	12/15/19 14:01	BMB	TAL BUF
Total/NA	Analysis	7471B		1	509976	12/15/19 15:15	BMB	TAL BUF

## **Client Sample ID: CHURCHSTREET BAYAREA**

Date Collected: 12/05/19 13:00  
Date Received: 12/06/19 15:25

## **Lab Sample ID: 480-163813-8**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	509126	12/10/19 15:08	BAS	TAL BUF

## **Client Sample ID: CHURCHSTREET BAYAREA**

Date Collected: 12/05/19 13:00  
Date Received: 12/06/19 15:25

## **Lab Sample ID: 480-163813-8**

Matrix: Solid  
Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			508877	12/09/19 15:01	SGD	TAL BUF
Total/NA	Analysis	8270D		10	509077	12/10/19 19:30	PJQ	TAL BUF
Total/NA	Prep	3550C			508728	12/09/19 07:45	SMP	TAL BUF
Total/NA	Analysis	8082A		1	508966	12/10/19 13:08	W1T	TAL BUF
Total/NA	Prep	3050B			508809	12/10/19 14:13	ADM	TAL BUF
Total/NA	Analysis	6010C		1	509518	12/11/19 19:39	AMH	TAL BUF
Total/NA	Prep	7471B			509970	12/15/19 14:01	BMB	TAL BUF
Total/NA	Analysis	7471B		1	509976	12/15/19 15:17	BMB	TAL BUF

## **Client Sample ID: UST PARKING AREA**

Date Collected: 12/05/19 13:10  
Date Received: 12/06/19 15:25

## **Lab Sample ID: 480-163813-9**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	509126	12/10/19 15:08	BAS	TAL BUF

Eurofins TestAmerica, Buffalo

# Lab Chronicle

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

## **Client Sample ID: UST PARKING AREA**

Date Collected: 12/05/19 13:10

Date Received: 12/06/19 15:25

## **Lab Sample ID: 480-163813-9**

Matrix: Solid

Percent Solids: 78.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			508877	12/09/19 15:01	SGD	TAL BUF
Total/NA	Analysis	8270D		1	509077	12/10/19 19:56	PJQ	TAL BUF
Total/NA	Prep	3550C			508728	12/09/19 07:45	SMP	TAL BUF
Total/NA	Analysis	8082A		1	508966	12/10/19 13:21	W1T	TAL BUF
Total/NA	Prep	3050B			508809	12/10/19 14:13	ADM	TAL BUF
Total/NA	Analysis	6010C		1	509518	12/11/19 19:43	AMH	TAL BUF
Total/NA	Prep	7471B			509970	12/15/19 14:01	BMB	TAL BUF
Total/NA	Analysis	7471B		1	509976	12/15/19 15:18	BMB	TAL BUF

## **Client Sample ID: SAMPLE 1UST**

Date Collected: 12/04/19 10:43

Date Received: 12/06/19 15:25

## **Lab Sample ID: 480-163813-10**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	508893	12/09/19 15:49	WJD	TAL BUF

## **Client Sample ID: SAMPLE 1UST**

Date Collected: 12/04/19 10:43

Date Received: 12/06/19 15:25

## **Lab Sample ID: 480-163813-10**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			509237	12/11/19 09:08	WJD	TAL BUF
Total/NA	Analysis	8260C		10	509448	12/12/19 13:25	LCH	TAL BUF
Total/NA	Prep	3550C			508877	12/09/19 15:01	SGD	TAL BUF
Total/NA	Analysis	8270D		1	509077	12/10/19 20:21	PJQ	TAL BUF
Total/NA	Prep	3050B			508809	12/10/19 14:13	ADM	TAL BUF
Total/NA	Analysis	6010C		1	509518	12/11/19 19:58	AMH	TAL BUF
Total/NA	Prep	7471B			509970	12/15/19 14:01	BMB	TAL BUF
Total/NA	Analysis	7471B		1	509976	12/15/19 15:19	BMB	TAL BUF

## **Client Sample ID: SAMPLE 2UST**

Date Collected: 12/04/19 12:25

Date Received: 12/06/19 15:25

## **Lab Sample ID: 480-163813-11**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	508893	12/09/19 15:49	WJD	TAL BUF

## **Client Sample ID: SAMPLE 2UST**

Date Collected: 12/04/19 12:25

Date Received: 12/06/19 15:25

## **Lab Sample ID: 480-163813-11**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			509237	12/11/19 09:08	WJD	TAL BUF
Total/NA	Analysis	8260C		20	509448	12/12/19 13:49	LCH	TAL BUF
Total/NA	Prep	3550C			508877	12/09/19 15:01	SGD	TAL BUF
Total/NA	Analysis	8270D		1	509077	12/10/19 20:46	PJQ	TAL BUF

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# Lab Chronicle

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

## **Client Sample ID: SAMPLE 2UST**

Date Collected: 12/04/19 12:25

Date Received: 12/06/19 15:25

## **Lab Sample ID: 480-163813-11**

Matrix: Solid

Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			508809	12/10/19 14:13	ADM	TAL BUF
Total/NA	Analysis	6010C		1	509518	12/11/19 20:02	AMH	TAL BUF
Total/NA	Prep	7471B			509970	12/15/19 14:01	BMB	TAL BUF
Total/NA	Analysis	7471B		1	509976	12/15/19 15:21	BMB	TAL BUF

## **Client Sample ID: SAMPLE 3UST**

Date Collected: 12/04/19 14:23

Date Received: 12/06/19 15:25

## **Lab Sample ID: 480-163813-12**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	508893	12/09/19 15:49	WJD	TAL BUF

## **Client Sample ID: SAMPLE 3UST**

Date Collected: 12/04/19 14:23

Date Received: 12/06/19 15:25

## **Lab Sample ID: 480-163813-12**

Matrix: Solid

Percent Solids: 75.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			509237	12/11/19 09:08	WJD	TAL BUF
Total/NA	Analysis	8260C		10	509448	12/12/19 14:13	LCH	TAL BUF
Total/NA	Prep	3550C			508877	12/09/19 15:01	SGD	TAL BUF
Total/NA	Analysis	8270D		1	509077	12/10/19 21:11	PJQ	TAL BUF
Total/NA	Prep	3050B			508809	12/10/19 14:13	ADM	TAL BUF
Total/NA	Analysis	6010C		1	509518	12/11/19 20:05	AMH	TAL BUF
Total/NA	Prep	7471B			509970	12/15/19 14:01	BMB	TAL BUF
Total/NA	Analysis	7471B		1	509976	12/15/19 15:22	BMB	TAL BUF

## **Client Sample ID: SAMPLE 4UST**

Date Collected: 12/04/19 13:52

Date Received: 12/06/19 15:25

## **Lab Sample ID: 480-163813-13**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	508893	12/09/19 15:49	WJD	TAL BUF

## **Client Sample ID: SAMPLE 4UST**

Date Collected: 12/04/19 13:52

Date Received: 12/06/19 15:25

## **Lab Sample ID: 480-163813-13**

Matrix: Solid

Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			509237	12/11/19 09:08	WJD	TAL BUF
Total/NA	Analysis	8260C		4	509448	12/12/19 14:37	LCH	TAL BUF
Total/NA	Prep	3550C			508877	12/09/19 15:01	SGD	TAL BUF
Total/NA	Analysis	8270D		5	509077	12/10/19 21:35	PJQ	TAL BUF
Total/NA	Prep	3050B			508809	12/10/19 14:13	ADM	TAL BUF
Total/NA	Analysis	6010C		1	509518	12/11/19 20:09	AMH	TAL BUF
Total/NA	Prep	7471B			509970	12/15/19 14:01	BMB	TAL BUF
Total/NA	Analysis	7471B		1	509976	12/15/19 15:23	BMB	TAL BUF

Eurofins TestAmerica, Buffalo

## Lab Chronicle

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

### Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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# Accreditation/Certification Summary

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

## Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

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Eurofins TestAmerica, Buffalo

# Method Summary

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
3050B	Preparation, Metals	SW846	TAL BUF
3550C	Ultrasonic Extraction	SW846	TAL BUF
5035A_H	Closed System Purge and Trap	SW846	TAL BUF
5035A_L	Closed System Purge and Trap	SW846	TAL BUF
7471B	Preparation, Mercury	SW846	TAL BUF

## Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

# Sample Summary

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-163813-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-163813-1	TP #4, 1-2	Solid	12/05/19 08:48	12/06/19 15:25	
480-163813-2	TP #3, 2-3	Solid	12/05/19 09:30	12/06/19 15:25	
480-163813-3	TP #5, 1-2	Solid	12/05/19 10:10	12/06/19 15:25	
480-163813-4	TP #6, 3-4	Solid	12/05/19 10:40	12/06/19 15:25	
480-163813-5	TP #9, 3	Solid	12/05/19 12:30	12/06/19 15:25	
480-163813-6	TP #1, 1-2	Solid	12/05/19 08:04	12/06/19 15:25	
480-163813-7	TP9 SURFACE	Solid	12/05/19 12:10	12/06/19 15:25	
480-163813-8	CHURCHSTREET BAYAREA	Solid	12/05/19 13:00	12/06/19 15:25	
480-163813-9	UST PARKING AREA	Solid	12/05/19 13:10	12/06/19 15:25	
480-163813-10	SAMPLE 1UST	Solid	12/04/19 10:43	12/06/19 15:25	
480-163813-11	SAMPLE 2UST	Solid	12/04/19 12:25	12/06/19 15:25	
480-163813-12	SAMPLE 3UST	Solid	12/04/19 14:23	12/06/19 15:25	
480-163813-13	SAMPLE 4UST	Solid	12/04/19 13:52	12/06/19 15:25	

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Eurofins TestAmerica, Buffalo

**Eurofins TestAmerica, Buffalo**

10 Hazelwood Drive  
Amherst, NY 14228-2298  
Phone: 716-691-2600 Fax: 716-691-7991

**Chain of Custody Record**

eurofins Environment Testing  
TestAmerica

<b>Client Information</b>		Sampler: <u>Heather Grohlegan</u> Phone: <u>505-409-1468</u>		Lab P.M.: <u>Fischer, Brian J</u> E-Mail: <u>brian.fischer@testamericainc.com</u>		Carrier Tracking No(s): <u>480-1386-11-31178.1</u>		COC No: <u>480-1386-11-31178.1</u>		
Address: 300 Pearl Street Suite 130 City: Buffalo State, Zip: NY, 14202 Phone: 716-551-6283(Tel) Email: mapieralski@labellapc.com Project Name: Church Street Project Site: <u>EmKey Trading LLC</u>		Due Date Requested: <u>SMW/DMD</u>		TAT Requested (days): <u>PO# Purchase Order not required</u>		Total Number of Cycles: <u>480-163813 Chain of Custody</u>		Page: <u>1 of 2</u> Job #: <u>2193071</u>		
<b>Analysis Requested</b>										
8260C - TCL 11st OLM04.2										
6010C, 7470A										
8270D - TCL SVOA - OLM04.2										
6010C, 8270D, Moisture										
8260C - CP-51 (STARS) List										
8260C - TCL 11st OLM04.2										
8082A, 8080B <u>PCBS</u>										
6010C, 7471B Moisture										
Perform MS/MS/MSD (Yes or No)										
Field Filtered Sample (Yes or No)										
Special Instructions/Note:										
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab, B=tissue, A=air)	Preservation Code	N	N	N	D	A
TP #4; 1-2'	12/5/19	0848	G	Solid	X	X	X	X		
TP #3; 2-3'	12/5/19	0930	G	Solid	X	X	X	X		
TP #5; 1-2'	12/5/19	1010	G	Solid	X	X	X	X		
TP #6; 3-4'	12/5/19	1040	G	Solid	X	X	X	X		
TP #9; ~3'	12/5/19	1030	G	Solid	X	X	X	X		
TP #1; 1-2'	12/5/19	0851	G	Solid	X	X	X	X		
MS	12/5/19	1010	G	Solid	X	X	X	X		
MD	12/5/19	1010	G	Solid	X	X	X	X		
TP9 Surface	12/5/19	1210	G	Solid	X	X	X	X		
ChurchStreet Bay Area	12/5/19	1300	G	Solid	X	X	X	X		
UST Packing Area	12/5/19	1310	G	Solid	X	X	X	X		
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)										
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input checked="" type="checkbox"/> Archive For <u>1</u> Months										
Special Instructions/QC Requirements:										
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:						
<u>Heather Grohlegan</u>		<u>12/6/2019</u>	<u>1450</u>	Company	Received by: <u>Heather</u>	Date/Time: <u>12/6/2019 1450</u>	Company			
Relinquished by:		Date/Time:	Time:	Company	Received by:	Date/Time:	Company			
<u>Heather Grohlegan</u>		<u>12/6/2019</u>	<u>1525</u>	Company	Received by: <u>Heather</u>	Date/Time: <u>12/6/2019 1525</u>	Company			
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No: <u>HKL 212 215</u>								
Cooler Temperature(s) °C and Other Remarks:										

## Chain of Custody Record

Client Information		Sampler Name Phone: Cell:	Lab PM: Fischer, Brian J E-Mail: brian.fischer@testamericainc.com	Carrier Tracking No(s)	COC No: 480-138611-31178.1	Page: Page 1 of 2
Client Contact: Mr. Robert Napieralski	Company: LaBella Associates DPC	Address: 300 Pearl Street, Suite 130 City: Buffalo State, Zip: NY, 14202 Phone: 716-551-6289 (Tel) Email: rnapieralski@labellapc.com Project Name: Church Street Project Site: EmKey Trading, WCB North LLC	Due Date Requested:  STANDARD	Analysis Requested  CP-51 SVDCs	Preservation Codes:  A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amichlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	Total Number of Containers
						Special Instructions/Note:  RCRA METALS 5 Hours INCLUDE 7470A ON ALL FOUR SAMPLES
Part #/Full Part# Sample (yes or no)						
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Oil/Water/Oil, Ornithine, AIAir)	Preservation Code:	
Sample 1 UST	12/4/19	1043	G	Solid	N	
Sample 2 UST	12/4/19	1225	G	Solid	N	
Sample 3 UST	12/4/19	H23	G	Solid	N	
Sample 4 UST	12/4/19	1352	G	Solid	N	
				Solid		
				Solid		
				Solid		
				Solid		
				Solid		
				Solid		
Possible Hazard Identification	<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Unknown	<input checked="" type="checkbox"/> Radiological	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Deliverable Requested: I, II, III, IV, Other (specify)	CAT 8	DELIVERABLES	<input type="checkbox"/> Return To Client	<input type="checkbox"/> Disposal By Lab	<input type="checkbox"/> Archive For 1 Month	
Empty Kit Relinquished by:	Relinquished by:  <i>[Signature]</i>	Date/Time: 12/4/2019 1430	Received by:  <i>[Signature]</i>	Date/Time: 12/4/2019 1450	Method of Shipment:  Company	
Custody Seals intact: △ Yes ▲ No		Date/Time: 12/6/19 1525	Received by:  <i>[Signature]</i>	Date/Time: 12/6/19 1525	Company	
Cooler Temperature(s) °C and Other Remarks:						

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Ver: 01/16/2019

## Login Sample Receipt Checklist

Client: LaBella Associates DPC

Job Number: 480-163813-1

**Login Number:** 163813

**List Source:** Eurofins TestAmerica, Buffalo

**List Number:** 1

**Creator:** Wallace, Cameron

### Question

### Answer

### Comment

Radioactivity either was not measured or, if measured, is at or below background

True

The cooler's custody seal, if present, is intact.

True

The cooler or samples do not appear to have been compromised or tampered with.

True

Samples were received on ice.

True

Cooler Temperature is acceptable.

True

Cooler Temperature is recorded.

True

COC is present.

True

COC is filled out in ink and legible.

True

COC is filled out with all pertinent information.

True

Is the Field Sampler's name present on COC?

True

There are no discrepancies between the sample IDs on the containers and the COC.

True

Samples are received within Holding Time (Excluding tests with immediate HTs)..

True

FREEZE TIME 12/7/19 0800

Sample containers have legible labels.

True

Containers are not broken or leaking.

True

Sample collection date/times are provided.

True

Appropriate sample containers are used.

True

Sample bottles are completely filled.

True

Sample Preservation Verified

True

There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs

True

VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.

True

If necessary, staff have been informed of any short hold time or quick TAT needs

True

Multiphasic samples are not present.

True

Samples do not require splitting or compositing.

True

Sampling Company provided.

True

Samples received within 48 hours of sampling.

True

Samples requiring field filtration have been filtered in the field.

True

Chlorine Residual checked.

N/A



# Environment Testing TestAmerica

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## ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo  
10 Hazelwood Drive  
Amherst, NY 14228-2298  
Tel: (716)691-2600

Laboratory Job ID: 480-165137-1  
Client Project/Site: Church Street Project

For:  
LaBella Associates DPC  
300 Pearl Street  
Suite 130  
Buffalo, New York 14202

Attn: Mr. Robert Napieralski

Authorized for release by:  
1/22/2020 3:34:41 PM  
Alexander Gilbert, Project Management Assistant I  
[alexander.gilbert@testamericainc.com](mailto:alexander.gilbert@testamericainc.com)

Designee for  
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### LINKS

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[www.testamericainc.com](http://www.testamericainc.com)

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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DRAFT

# Definitions/Glossary

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-165137-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

### GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

### Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

### Abbreviation

These commonly used abbreviations may or may not be present in this report.

□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Case Narrative

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-165137-1

## Job ID: 480-165137-1

Laboratory: Eurofins TestAmerica, Buffalo

### Narrative

#### Job Narrative 480-165137-1

### Comments

No additional comments.

### Receipt

The samples were received on 1/14/2020 11:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0° C.

### GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-513745 recovered above the upper control limit for 2-Butanone (MEK). The samples associated with this CCV were non-detect and/or below the reporting limit (RL) for the affected analyte; therefore, the data have been reported. The following samples are impacted: MW1 (480-165137-1), MW2 (480-165137-2) and MW3 (480-165137-3).

Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: MW2 (480-165137-2). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW3 (480-165137-3). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-513595 recovered above the upper control limit for 2-Hexanone, Chlorodibromomethane, 4-Methyl-2-pentanone (MIBK), Tetrachloroethene, 1,1,1-Trichloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, and 2-Butanone (MEK). The sample associated with this CCV was non-detect for the affected analytes; therefore, the data have been reported. The following sample is impacted: TRIP BLANK (480-165137-4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### GC/MS Semi VOA

Method 8270D: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW3 (480-165137-3). Elevated reporting limits (RLs) are provided.

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: MW2 (480-165137-2). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### GC Semi VOA

Method 8082A: The following sample was diluted due to the nature of the sample matrix: MW3 (480-165137-3). Elevated reporting limits (RLs) are provided.

Method 8082A: The following sample was diluted due to the nature of the sample matrix : MW3 (480-165137-3). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### Metals

Method 6010C: The Serial Dilution (480-165137-A-1-A SD ^5) in batch 480-513586, exhibited results outside the quality control limits for Total Barium and Chromium. However, the Post Digestion Spike was compliant so no corrective action was necessary.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### Organic Prep

## Case Narrative

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-165137-1

### Job ID: 480-165137-1 (Continued)

#### Laboratory: Eurofins TestAmerica, Buffalo (Continued)

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-513796.

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 480-513796.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DRAFT

# Detection Summary

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-165137-1

## **Client Sample ID: MW1**

## **Lab Sample ID: 480-165137-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Caprolactam	26		5.0	2.2	ug/L	1		8270D	Total/NA
Arsenic	0.035		0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	2.3		0.0020	0.00070	mg/L	1		6010C	Total/NA
Cadmium	0.0035	F1	0.0020	0.00050	mg/L	1		6010C	Total/NA
Chromium	0.049		0.0040	0.0010	mg/L	1		6010C	Total/NA
Lead	0.11		0.010	0.0030	mg/L	1		6010C	Total/NA
Mercury	0.0014		0.00020	0.00012	mg/L	1		7470A	Total/NA

## **Client Sample ID: MW2**

## **Lab Sample ID: 480-165137-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	11	J	20	6.0	ug/L	2		8260C	Total/NA
Chloroform	1.3	J	2.0	0.68	ug/L	2		8260C	Total/NA
Caprolactam	21		5.2	2.3	ug/L	1		8270D	Total/NA
Arsenic	0.15		0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	1.1		0.0020	0.00070	mg/L	1		6010C	Total/NA
Cadmium	0.00067	J	0.0020	0.00050	mg/L	1		6010C	Total/NA
Chromium	0.14		0.0040	0.0010	mg/L	1		6010C	Total/NA
Lead	0.18		0.010	0.0030	mg/L	1		6010C	Total/NA
Mercury	0.00018	J	0.00020	0.00012	mg/L	1		7470A	Total/NA

## **Client Sample ID: MW3**

## **Lab Sample ID: 480-165137-3**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	43		10	4.1	ug/L	10		8260C	Total/NA
Cyclohexane	500		10	1.8	ug/L	10		8260C	Total/NA
Ethylbenzene	640		10	7.4	ug/L	10		8260C	Total/NA
Isopropylbenzene	100		10	7.9	ug/L	10		8260C	Total/NA
Methylcyclohexane	440		10	1.6	ug/L	10		8260C	Total/NA
Methylene Chloride	29		10	4.4	ug/L	10		8260C	Total/NA
Toluene	13		10	5.1	ug/L	10		8260C	Total/NA
Xylenes, Total	210		20	6.6	ug/L	10		8260C	Total/NA
2-Methylnaphthalene	67		25	3.0	ug/L	5		8270D	Total/NA
Caprolactam	17	J	25	11	ug/L	5		8270D	Total/NA
Naphthalene	270		25	3.8	ug/L	5		8270D	Total/NA
Arsenic	0.038		0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	0.56		0.0020	0.00070	mg/L	1		6010C	Total/NA
Cadmium	0.00052	J	0.0020	0.00050	mg/L	1		6010C	Total/NA
Chromium	0.023		0.0040	0.0010	mg/L	1		6010C	Total/NA
Lead	0.038		0.010	0.0030	mg/L	1		6010C	Total/NA

## **Client Sample ID: TRIP BLANK**

## **Lab Sample ID: 480-165137-4**

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: LaBella Associates DPC  
 Project/Site: Church Street Project

Job ID: 480-165137-1

**Client Sample ID: MW1**

Date Collected: 01/13/20 09:50

Date Received: 01/14/20 11:55

**Lab Sample ID: 480-165137-1**

Matrix: Water

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	F1	1.0	0.82	ug/L		01/16/20 14:00		1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L		01/16/20 14:00		1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L		01/16/20 14:00		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L		01/16/20 14:00		1
1,1-Dichloroethane	ND	F1	1.0	0.38	ug/L		01/16/20 14:00		1
1,1-Dichloroethene	ND		1.0	0.29	ug/L		01/16/20 14:00		1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L		01/16/20 14:00		1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L		01/16/20 14:00		1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L		01/16/20 14:00		1
1,2-Dichloroethane	ND		1.0	0.21	ug/L		01/16/20 14:00		1
1,2-Dichloropropane	ND		1.0	0.72	ug/L		01/16/20 14:00		1
1,3-Dichlorobenzene	ND	F1	1.0	0.78	ug/L		01/16/20 14:00		1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L		01/16/20 14:00		1
2-Butanone (MEK)	ND		10	1.3	ug/L		01/16/20 14:00		1
2-Hexanone	ND		5.0	1.2	ug/L		01/16/20 14:00		1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L		01/16/20 14:00		1
Acetone	ND		10	3.0	ug/L		01/16/20 14:00		1
Benzene	ND		1.0	0.41	ug/L		01/16/20 14:00		1
Bromodichloromethane	ND		1.0	0.39	ug/L		01/16/20 14:00		1
Bromoform	ND		1.0	0.26	ug/L		01/16/20 14:00		1
Bromomethane	ND	F2	1.0	0.69	ug/L		01/16/20 14:00		1
Carbon disulfide	ND		1.0	0.19	ug/L		01/16/20 14:00		1
Carbon tetrachloride	ND		1.0	0.27	ug/L		01/16/20 14:00		1
Chlorobenzene	ND		1.0	0.75	ug/L		01/16/20 14:00		1
Dibromochloromethane	ND		1.0	0.32	ug/L		01/16/20 14:00		1
Chloroethane	ND		1.0	0.32	ug/L		01/16/20 14:00		1
Chloroform	ND		1.0	0.34	ug/L		01/16/20 14:00		1
Chloromethane	ND		1.0	0.35	ug/L		01/16/20 14:00		1
cis-1,2-Dichloroethene	ND	F1	1.0	0.81	ug/L		01/16/20 14:00		1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L		01/16/20 14:00		1
Cyclohexane	ND		1.0	0.18	ug/L		01/16/20 14:00		1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L		01/16/20 14:00		1
Ethylbenzene	ND		1.0	0.74	ug/L		01/16/20 14:00		1
1,2-Dibromoethane	ND		1.0	0.73	ug/L		01/16/20 14:00		1
Isopropylbenzene	ND		1.0	0.79	ug/L		01/16/20 14:00		1
Methyl acetate	ND		2.5	1.3	ug/L		01/16/20 14:00		1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L		01/16/20 14:00		1
Methylcyclohexane	ND		1.0	0.16	ug/L		01/16/20 14:00		1
Methylene Chloride	ND		1.0	0.44	ug/L		01/16/20 14:00		1
Styrene	ND		1.0	0.73	ug/L		01/16/20 14:00		1
Tetrachloroethene	ND	F1	1.0	0.36	ug/L		01/16/20 14:00		1
Toluene	ND		1.0	0.51	ug/L		01/16/20 14:00		1
trans-1,2-Dichloroethene	ND	F1	1.0	0.90	ug/L		01/16/20 14:00		1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L		01/16/20 14:00		1
Trichloroethene	ND		1.0	0.46	ug/L		01/16/20 14:00		1
Trichlorofluoromethane	ND		1.0	0.88	ug/L		01/16/20 14:00		1
Vinyl chloride	ND		1.0	0.90	ug/L		01/16/20 14:00		1
Xylenes, Total	ND		2.0	0.66	ug/L		01/16/20 14:00		1

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# Client Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-165137-1

**Client Sample ID: MW1**

Date Collected: 01/13/20 09:50

Date Received: 01/14/20 11:55

**Lab Sample ID: 480-165137-1**

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		80 - 120		01/16/20 14:00	1
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		01/16/20 14:00	1
4-Bromofluorobenzene (Surr)	113		73 - 120		01/16/20 14:00	1
Dibromofluoromethane (Surr)	107		75 - 123		01/16/20 14:00	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		01/16/20 08:58	01/17/20 21:51	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		01/16/20 08:58	01/17/20 21:51	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		01/16/20 08:58	01/17/20 21:51	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		01/16/20 08:58	01/17/20 21:51	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		01/16/20 08:58	01/17/20 21:51	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		01/16/20 08:58	01/17/20 21:51	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		01/16/20 08:58	01/17/20 21:51	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		01/16/20 08:58	01/17/20 21:51	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		01/16/20 08:58	01/17/20 21:51	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		01/16/20 08:58	01/17/20 21:51	1
2-Chlorophenol	ND		5.0	0.53	ug/L		01/16/20 08:58	01/17/20 21:51	1
2-Methylphenol	ND		5.0	0.40	ug/L		01/16/20 08:58	01/17/20 21:51	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		01/16/20 08:58	01/17/20 21:51	1
2-Nitroaniline	ND		10	0.42	ug/L		01/16/20 08:58	01/17/20 21:51	1
2-Nitrophenol	ND		5.0	0.48	ug/L		01/16/20 08:58	01/17/20 21:51	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		01/16/20 08:58	01/17/20 21:51	1
3-Nitroaniline	ND		10	0.48	ug/L		01/16/20 08:58	01/17/20 21:51	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		01/16/20 08:58	01/17/20 21:51	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		01/16/20 08:58	01/17/20 21:51	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		01/16/20 08:58	01/17/20 21:51	1
4-Chloroaniline	ND		5.0	0.59	ug/L		01/16/20 08:58	01/17/20 21:51	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		01/16/20 08:58	01/17/20 21:51	1
4-Methylphenol	ND		10	0.36	ug/L		01/16/20 08:58	01/17/20 21:51	1
4-Nitroaniline	ND		10	0.25	ug/L		01/16/20 08:58	01/17/20 21:51	1
4-Nitrophenol	ND		10	1.5	ug/L		01/16/20 08:58	01/17/20 21:51	1
Acenaphthene	ND		5.0	0.41	ug/L		01/16/20 08:58	01/17/20 21:51	1
Acenaphthylene	ND		5.0	0.38	ug/L		01/16/20 08:58	01/17/20 21:51	1
Acetophenone	ND		5.0	0.54	ug/L		01/16/20 08:58	01/17/20 21:51	1
Anthracene	ND		5.0	0.28	ug/L		01/16/20 08:58	01/17/20 21:51	1
Atrazine	ND		5.0	0.46	ug/L		01/16/20 08:58	01/17/20 21:51	1
Benzaldehyde	ND		5.0	0.27	ug/L		01/16/20 08:58	01/17/20 21:51	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		01/16/20 08:58	01/17/20 21:51	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		01/16/20 08:58	01/17/20 21:51	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		01/16/20 08:58	01/17/20 21:51	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		01/16/20 08:58	01/17/20 21:51	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		01/16/20 08:58	01/17/20 21:51	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		01/16/20 08:58	01/17/20 21:51	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		01/16/20 08:58	01/17/20 21:51	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		01/16/20 08:58	01/17/20 21:51	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		01/16/20 08:58	01/17/20 21:51	1
<b>Caprolactam</b>	<b>26</b>		5.0	2.2	ug/L		01/16/20 08:58	01/17/20 21:51	1
Carbazole	ND		5.0	0.30	ug/L		01/16/20 08:58	01/17/20 21:51	1
Chrysene	ND		5.0	0.33	ug/L		01/16/20 08:58	01/17/20 21:51	1

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# Client Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-165137-1

**Client Sample ID: MW1**

**Lab Sample ID: 480-165137-1**

Matrix: Water

Date Collected: 01/13/20 09:50  
Date Received: 01/14/20 11:55

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		01/16/20 08:58	01/17/20 21:51	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		01/16/20 08:58	01/17/20 21:51	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		01/16/20 08:58	01/17/20 21:51	1
Dibenzofuran	ND		10	0.51	ug/L		01/16/20 08:58	01/17/20 21:51	1
Diethyl phthalate	ND		5.0	0.22	ug/L		01/16/20 08:58	01/17/20 21:51	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		01/16/20 08:58	01/17/20 21:51	1
Fluoranthene	ND		5.0	0.40	ug/L		01/16/20 08:58	01/17/20 21:51	1
Fluorene	ND		5.0	0.36	ug/L		01/16/20 08:58	01/17/20 21:51	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		01/16/20 08:58	01/17/20 21:51	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		01/16/20 08:58	01/17/20 21:51	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		01/16/20 08:58	01/17/20 21:51	1
Hexachloroethane	ND		5.0	0.59	ug/L		01/16/20 08:58	01/17/20 21:51	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		01/16/20 08:58	01/17/20 21:51	1
Isophorone	ND		5.0	0.43	ug/L		01/16/20 08:58	01/17/20 21:51	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		01/16/20 08:58	01/17/20 21:51	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		01/16/20 08:58	01/17/20 21:51	1
Naphthalene	ND		5.0	0.76	ug/L		01/16/20 08:58	01/17/20 21:51	1
Nitrobenzene	ND		5.0	0.29	ug/L		01/16/20 08:58	01/17/20 21:51	1
Pentachlorophenol	ND		10	2.2	ug/L		01/16/20 08:58	01/17/20 21:51	1
Phenanthrene	ND		5.0	0.44	ug/L		01/16/20 08:58	01/17/20 21:51	1
Phenol	ND		5.0	0.39	ug/L		01/16/20 08:58	01/17/20 21:51	1
Pyrene	ND		5.0	0.34	ug/L		01/16/20 08:58	01/17/20 21:51	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Nitrobenzene-d5 (Surr)	85		46 - 120				01/16/20 08:58	01/17/20 21:51	1
Phenol-d5 (Surr)	49		22 - 120				01/16/20 08:58	01/17/20 21:51	1
p-Terphenyl-d14 (Surr)	78		60 - 148				01/16/20 08:58	01/17/20 21:51	1
2,4,6-Tribromophenol (Surr)	76		41 - 120				01/16/20 08:58	01/17/20 21:51	1
2-Fluorobiphenyl	92		48 - 120				01/16/20 08:58	01/17/20 21:51	1
2-Fluorophenol (Surr)	66		35 - 120				01/16/20 08:58	01/17/20 21:51	1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		01/15/20 15:18	01/16/20 15:51	1
PCB-1221	ND		0.50	0.18	ug/L		01/15/20 15:18	01/16/20 15:51	1
PCB-1232	ND		0.50	0.18	ug/L		01/15/20 15:18	01/16/20 15:51	1
PCB-1242	ND		0.50	0.18	ug/L		01/15/20 15:18	01/16/20 15:51	1
PCB-1248	ND		0.50	0.18	ug/L		01/15/20 15:18	01/16/20 15:51	1
PCB-1254	ND		0.50	0.25	ug/L		01/15/20 15:18	01/16/20 15:51	1
PCB-1260	ND		0.50	0.25	ug/L		01/15/20 15:18	01/16/20 15:51	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tetrachloro-m-xylene	64		39 - 121				01/15/20 15:18	01/16/20 15:51	1
DCB Decachlorobiphenyl	43		19 - 120				01/15/20 15:18	01/16/20 15:51	1

## Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.035		0.015	0.0056	mg/L		01/15/20 07:34	01/15/20 17:59	1
Barium	2.3		0.0020	0.00070	mg/L		01/15/20 07:34	01/15/20 17:59	1
Cadmium	0.0035 F1		0.0020	0.00050	mg/L		01/15/20 07:34	01/15/20 17:59	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-165137-1

## **Client Sample ID: MW1**

Date Collected: 01/13/20 09:50  
Date Received: 01/14/20 11:55

## **Lab Sample ID: 480-165137-1**

Matrix: Water

### **Method: 6010C - Metals (ICP) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.049		0.0040	0.0010	mg/L		01/15/20 07:34	01/15/20 17:59	1
Lead	0.11		0.010	0.0030	mg/L		01/15/20 07:34	01/15/20 17:59	1
Selenium	ND	F1	0.025	0.0087	mg/L		01/15/20 07:34	01/15/20 17:59	1
Silver	ND		0.0060	0.0017	mg/L		01/15/20 07:34	01/15/20 17:59	1

### **Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0014		0.00020	0.00012	mg/L		01/16/20 11:44	01/16/20 15:05	1

## **Client Sample ID: MW2**

Date Collected: 01/13/20 12:56  
Date Received: 01/14/20 11:55

## **Lab Sample ID: 480-165137-2**

Matrix: Water

### **Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L		01/16/20 14:23	01/16/20 14:23	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L		01/16/20 14:23	01/16/20 14:23	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L		01/16/20 14:23	01/16/20 14:23	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L		01/16/20 14:23	01/16/20 14:23	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L		01/16/20 14:23	01/16/20 14:23	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L		01/16/20 14:23	01/16/20 14:23	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L		01/16/20 14:23	01/16/20 14:23	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L		01/16/20 14:23	01/16/20 14:23	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L		01/16/20 14:23	01/16/20 14:23	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L		01/16/20 14:23	01/16/20 14:23	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L		01/16/20 14:23	01/16/20 14:23	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L		01/16/20 14:23	01/16/20 14:23	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L		01/16/20 14:23	01/16/20 14:23	2
2-Butanone (MEK)	ND		20	2.6	ug/L		01/16/20 14:23	01/16/20 14:23	2
2-Hexanone	ND		10	2.5	ug/L		01/16/20 14:23	01/16/20 14:23	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L		01/16/20 14:23	01/16/20 14:23	2
<b>Acetone</b>	<b>11 J</b>		20	6.0	ug/L		01/16/20 14:23	01/16/20 14:23	2
Benzene	ND		2.0	0.82	ug/L		01/16/20 14:23	01/16/20 14:23	2
Bromodichloromethane	ND		2.0	0.78	ug/L		01/16/20 14:23	01/16/20 14:23	2
Bromoform	ND		2.0	0.52	ug/L		01/16/20 14:23	01/16/20 14:23	2
Bromomethane	ND		2.0	1.4	ug/L		01/16/20 14:23	01/16/20 14:23	2
Carbon disulfide	ND		2.0	0.38	ug/L		01/16/20 14:23	01/16/20 14:23	2
Carbon tetrachloride	ND		2.0	0.54	ug/L		01/16/20 14:23	01/16/20 14:23	2
Chlorobenzene	ND		2.0	1.5	ug/L		01/16/20 14:23	01/16/20 14:23	2
Dibromochloromethane	ND		2.0	0.64	ug/L		01/16/20 14:23	01/16/20 14:23	2
Chloroethane	ND		2.0	0.64	ug/L		01/16/20 14:23	01/16/20 14:23	2
<b>Chloroform</b>	<b>1.3 J</b>		2.0	0.68	ug/L		01/16/20 14:23	01/16/20 14:23	2
Chloromethane	ND		2.0	0.70	ug/L		01/16/20 14:23	01/16/20 14:23	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L		01/16/20 14:23	01/16/20 14:23	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L		01/16/20 14:23	01/16/20 14:23	2
Cyclohexane	ND		2.0	0.36	ug/L		01/16/20 14:23	01/16/20 14:23	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L		01/16/20 14:23	01/16/20 14:23	2
Ethylbenzene	ND		2.0	1.5	ug/L		01/16/20 14:23	01/16/20 14:23	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L		01/16/20 14:23	01/16/20 14:23	2
Isopropylbenzene	ND		2.0	1.6	ug/L		01/16/20 14:23	01/16/20 14:23	2

# Client Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-165137-1

## Client Sample ID: MW2

Date Collected: 01/13/20 12:56  
Date Received: 01/14/20 11:55

## Lab Sample ID: 480-165137-2

Matrix: Water

### Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl acetate	ND		5.0	2.6	ug/L			01/16/20 14:23	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			01/16/20 14:23	2
Methylicyclohexane	ND		2.0	0.32	ug/L			01/16/20 14:23	2
Methylene Chloride	ND		2.0	0.88	ug/L			01/16/20 14:23	2
Styrene	ND		2.0	1.5	ug/L			01/16/20 14:23	2
Tetrachloroethene	ND		2.0	0.72	ug/L			01/16/20 14:23	2
Toluene	ND		2.0	1.0	ug/L			01/16/20 14:23	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			01/16/20 14:23	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			01/16/20 14:23	2
Trichloroethene	ND		2.0	0.92	ug/L			01/16/20 14:23	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			01/16/20 14:23	2
Vinyl chloride	ND		2.0	1.8	ug/L			01/16/20 14:23	2
Xylenes, Total	ND		4.0	1.3	ug/L			01/16/20 14:23	2
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	97		80 - 120					01/16/20 14:23	2
1,2-Dichloroethane-d4 (Surr)	95		77 - 120					01/16/20 14:23	2
4-Bromofluorobenzene (Surr)	116		73 - 120					01/16/20 14:23	2
Dibromofluoromethane (Surr)	102		75 - 123					01/16/20 14:23	2

### Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.2	0.68	ug/L			01/16/20 08:58	01/17/20 22:19
bis (2-chloroisopropyl) ether	ND		5.2	0.54	ug/L			01/16/20 08:58	01/17/20 22:19
2,4,5-Trichlorophenol	ND		5.2	0.50	ug/L			01/16/20 08:58	01/17/20 22:19
2,4,6-Trichlorophenol	ND		5.2	0.64	ug/L			01/16/20 08:58	01/17/20 22:19
2,4-Dichlorophenol	ND		5.2	0.53	ug/L			01/16/20 08:58	01/17/20 22:19
2,4-Dimethylphenol	ND		5.2	0.52	ug/L			01/16/20 08:58	01/17/20 22:19
2,4-Dinitrophenol	ND		10	2.3	ug/L			01/16/20 08:58	01/17/20 22:19
2,4-Dinitrotoluene	ND		5.2	0.47	ug/L			01/16/20 08:58	01/17/20 22:19
2,6-Dinitrotoluene	ND		5.2	0.42	ug/L			01/16/20 08:58	01/17/20 22:19
2-Chloronaphthalene	ND		5.2	0.48	ug/L			01/16/20 08:58	01/17/20 22:19
2-Chlorophenol	ND		5.2	0.55	ug/L			01/16/20 08:58	01/17/20 22:19
2-Methylphenol	ND		5.2	0.42	ug/L			01/16/20 08:58	01/17/20 22:19
2-Methylnaphthalene	ND		5.2	0.63	ug/L			01/16/20 08:58	01/17/20 22:19
2-Nitroaniline	ND		10	0.44	ug/L			01/16/20 08:58	01/17/20 22:19
2-Nitrophenol	ND		5.2	0.50	ug/L			01/16/20 08:58	01/17/20 22:19
3,3'-Dichlorobenzidine	ND		5.2	0.42	ug/L			01/16/20 08:58	01/17/20 22:19
3-Nitroaniline	ND		10	0.50	ug/L			01/16/20 08:58	01/17/20 22:19
4,6-Dinitro-2-methylphenol	ND		10	2.3	ug/L			01/16/20 08:58	01/17/20 22:19
4-Bromophenyl phenyl ether	ND		5.2	0.47	ug/L			01/16/20 08:58	01/17/20 22:19
4-Chloro-3-methylphenol	ND		5.2	0.47	ug/L			01/16/20 08:58	01/17/20 22:19
4-Chloroaniline	ND		5.2	0.61	ug/L			01/16/20 08:58	01/17/20 22:19
4-Chlorophenyl phenyl ether	ND		5.2	0.36	ug/L			01/16/20 08:58	01/17/20 22:19
4-Methylphenol	ND		10	0.38	ug/L			01/16/20 08:58	01/17/20 22:19
4-Nitroaniline	ND		10	0.26	ug/L			01/16/20 08:58	01/17/20 22:19
4-Nitrophenol	ND		10	1.6	ug/L			01/16/20 08:58	01/17/20 22:19
Acenaphthene	ND		5.2	0.43	ug/L			01/16/20 08:58	01/17/20 22:19
Acenaphthylene	ND		5.2	0.40	ug/L			01/16/20 08:58	01/17/20 22:19
Acetophenone	ND		5.2	0.56	ug/L			01/16/20 08:58	01/17/20 22:19

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-165137-1

## Client Sample ID: MW2

Date Collected: 01/13/20 12:56  
Date Received: 01/14/20 11:55

## Lab Sample ID: 480-165137-2

Matrix: Water

### Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		5.2	0.29	ug/L		01/16/20 08:58	01/17/20 22:19	1
Atrazine	ND		5.2	0.48	ug/L		01/16/20 08:58	01/17/20 22:19	1
Benzaldehyde	ND		5.2	0.28	ug/L		01/16/20 08:58	01/17/20 22:19	1
Benzo[a]anthracene	ND		5.2	0.38	ug/L		01/16/20 08:58	01/17/20 22:19	1
Benzo[a]pyrene	ND		5.2	0.49	ug/L		01/16/20 08:58	01/17/20 22:19	1
Benzo[b]fluoranthene	ND		5.2	0.35	ug/L		01/16/20 08:58	01/17/20 22:19	1
Benzo[g,h,i]perylene	ND		5.2	0.36	ug/L		01/16/20 08:58	01/17/20 22:19	1
Benzo[k]fluoranthene	ND		5.2	0.76	ug/L		01/16/20 08:58	01/17/20 22:19	1
Bis(2-chloroethoxy)methane	ND		5.2	0.36	ug/L		01/16/20 08:58	01/17/20 22:19	1
Bis(2-chloroethyl)ether	ND		5.2	0.42	ug/L		01/16/20 08:58	01/17/20 22:19	1
Bis(2-ethylhexyl) phthalate	ND		5.2	2.3	ug/L		01/16/20 08:58	01/17/20 22:19	1
Butyl benzyl phthalate	ND		5.2	1.0	ug/L		01/16/20 08:58	01/17/20 22:19	1
<b>Caprolactam</b>	<b>21</b>		5.2	2.3	ug/L		01/16/20 08:58	01/17/20 22:19	1
Carbazole	ND		5.2	0.31	ug/L		01/16/20 08:58	01/17/20 22:19	1
Chrysene	ND		5.2	0.34	ug/L		01/16/20 08:58	01/17/20 22:19	1
Dibenz(a,h)anthracene	ND		5.2	0.44	ug/L		01/16/20 08:58	01/17/20 22:19	1
Di-n-butyl phthalate	ND		5.2	0.32	ug/L		01/16/20 08:58	01/17/20 22:19	1
Di-n-octyl phthalate	ND		5.2	0.49	ug/L		01/16/20 08:58	01/17/20 22:19	1
Dibenzofuran	ND		10	0.53	ug/L		01/16/20 08:58	01/17/20 22:19	1
Diethyl phthalate	ND		5.2	0.23	ug/L		01/16/20 08:58	01/17/20 22:19	1
Dimethyl phthalate	ND		5.2	0.38	ug/L		01/16/20 08:58	01/17/20 22:19	1
Fluoranthene	ND		5.2	0.42	ug/L		01/16/20 08:58	01/17/20 22:19	1
Fluorene	ND		5.2	0.38	ug/L		01/16/20 08:58	01/17/20 22:19	1
Hexachlorobenzene	ND		5.2	0.53	ug/L		01/16/20 08:58	01/17/20 22:19	1
Hexachlorobutadiene	ND		5.2	0.71	ug/L		01/16/20 08:58	01/17/20 22:19	1
Hexachlorocyclopentadiene	ND		5.2	0.61	ug/L		01/16/20 08:58	01/17/20 22:19	1
Hexachloroethane	ND		5.2	0.61	ug/L		01/16/20 08:58	01/17/20 22:19	1
Indeno[1,2,3-cd]pyrene	ND		5.2	0.49	ug/L		01/16/20 08:58	01/17/20 22:19	1
Isophorone	ND		5.2	0.45	ug/L		01/16/20 08:58	01/17/20 22:19	1
N-Nitrosodi-n-propylamine	ND		5.2	0.56	ug/L		01/16/20 08:58	01/17/20 22:19	1
N-Nitrosodiphenylamine	ND		5.2	0.53	ug/L		01/16/20 08:58	01/17/20 22:19	1
Naphthalene	ND		5.2	0.79	ug/L		01/16/20 08:58	01/17/20 22:19	1
Nitrobenzene	ND		5.2	0.30	ug/L		01/16/20 08:58	01/17/20 22:19	1
Pentachlorophenol	ND		10	2.3	ug/L		01/16/20 08:58	01/17/20 22:19	1
Phenanthrene	ND		5.2	0.46	ug/L		01/16/20 08:58	01/17/20 22:19	1
Phenol	ND		5.2	0.41	ug/L		01/16/20 08:58	01/17/20 22:19	1
Pyrene	ND		5.2	0.35	ug/L		01/16/20 08:58	01/17/20 22:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	89		46 - 120	01/16/20 08:58	01/17/20 22:19	1
Phenol-d5 (Surr)	56		22 - 120	01/16/20 08:58	01/17/20 22:19	1
p-Terphenyl-d14 (Surr)	58	X	60 - 148	01/16/20 08:58	01/17/20 22:19	1
2,4,6-Tribromophenol (Surr)	87		41 - 120	01/16/20 08:58	01/17/20 22:19	1
2-Fluorobiphenyl	99		48 - 120	01/16/20 08:58	01/17/20 22:19	1
2-Fluorophenol (Surr)	72		35 - 120	01/16/20 08:58	01/17/20 22:19	1

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		01/15/20 15:18	01/16/20 16:04	1
PCB-1221	ND		0.50	0.18	ug/L		01/15/20 15:18	01/16/20 16:04	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-165137-1

## **Client Sample ID: MW2**

Date Collected: 01/13/20 12:56  
Date Received: 01/14/20 11:55

## **Lab Sample ID: 480-165137-2**

Matrix: Water

### **Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.50	0.18	ug/L		01/15/20 15:18	01/16/20 16:04	1
PCB-1242	ND		0.50	0.18	ug/L		01/15/20 15:18	01/16/20 16:04	1
PCB-1248	ND		0.50	0.18	ug/L		01/15/20 15:18	01/16/20 16:04	1
PCB-1254	ND		0.50	0.25	ug/L		01/15/20 15:18	01/16/20 16:04	1
PCB-1260	ND		0.50	0.25	ug/L		01/15/20 15:18	01/16/20 16:04	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tetrachloro-m-xylene	51			39 - 121			01/15/20 15:18	01/16/20 16:04	1
DCB Decachlorobiphenyl	27			19 - 120			01/15/20 15:18	01/16/20 16:04	1

### **Method: 6010C - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.15		0.015	0.0056	mg/L		01/15/20 07:34	01/15/20 18:28	1
Barium	1.1		0.0020	0.00070	mg/L		01/15/20 07:34	01/15/20 18:28	1
Cadmium	0.00067 J		0.0020	0.00050	mg/L		01/15/20 07:34	01/15/20 18:28	1
Chromium	0.14		0.0040	0.0010	mg/L		01/15/20 07:34	01/15/20 18:28	1
Lead	0.18		0.010	0.0030	mg/L		01/15/20 07:34	01/15/20 18:28	1
Selenium	ND		0.025	0.0087	mg/L		01/15/20 07:34	01/15/20 18:28	1
Silver	ND		0.0060	0.0017	mg/L		01/15/20 07:34	01/15/20 18:28	1

### **Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00018 J		0.00020	0.00012	mg/L		01/16/20 11:44	01/16/20 15:10	1

## **Client Sample ID: MW3**

Date Collected: 01/13/20 12:30  
Date Received: 01/14/20 11:55

## **Lab Sample ID: 480-165137-3**

Matrix: Water

### **Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L		01/16/20 14:46		10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L		01/16/20 14:46		10
1,1,2-Trichloroethane	ND		10	2.3	ug/L		01/16/20 14:46		10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L		01/16/20 14:46		10
1,1-Dichloroethane	ND		10	3.8	ug/L		01/16/20 14:46		10
1,1-Dichloroethene	ND		10	2.9	ug/L		01/16/20 14:46		10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L		01/16/20 14:46		10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L		01/16/20 14:46		10
1,2-Dichlorobenzene	ND		10	7.9	ug/L		01/16/20 14:46		10
1,2-Dichloroethane	ND		10	2.1	ug/L		01/16/20 14:46		10
1,2-Dichloropropane	ND		10	7.2	ug/L		01/16/20 14:46		10
1,3-Dichlorobenzene	ND		10	7.8	ug/L		01/16/20 14:46		10
1,4-Dichlorobenzene	ND		10	8.4	ug/L		01/16/20 14:46		10
2-Butanone (MEK)	ND		100	13	ug/L		01/16/20 14:46		10
2-Hexanone	ND		50	12	ug/L		01/16/20 14:46		10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L		01/16/20 14:46		10
Acetone	ND		100	30	ug/L		01/16/20 14:46		10
<b>Benzene</b>	<b>43</b>		10	4.1	ug/L		01/16/20 14:46		10
Bromodichloromethane	ND		10	3.9	ug/L		01/16/20 14:46		10
Bromoform	ND		10	2.6	ug/L		01/16/20 14:46		10
Bromomethane	ND		10	6.9	ug/L		01/16/20 14:46		10

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-165137-1

**Client Sample ID: MW3**

**Lab Sample ID: 480-165137-3**

Date Collected: 01/13/20 12:30

Matrix: Water

Date Received: 01/14/20 11:55

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		10	1.9	ug/L			01/16/20 14:46	10
Carbon tetrachloride	ND		10	2.7	ug/L			01/16/20 14:46	10
Chlorobenzene	ND		10	7.5	ug/L			01/16/20 14:46	10
Dibromochloromethane	ND		10	3.2	ug/L			01/16/20 14:46	10
Chloroethane	ND		10	3.2	ug/L			01/16/20 14:46	10
Chloroform	ND		10	3.4	ug/L			01/16/20 14:46	10
Chloromethane	ND		10	3.5	ug/L			01/16/20 14:46	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			01/16/20 14:46	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			01/16/20 14:46	10
<b>Cyclohexane</b>	<b>500</b>		10	1.8	ug/L			01/16/20 14:46	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			01/16/20 14:46	10
<b>Ethylbenzene</b>	<b>640</b>		10	7.4	ug/L			01/16/20 14:46	10
1,2-Dibromoethane	ND		10	7.3	ug/L			01/16/20 14:46	10
<b>Isopropylbenzene</b>	<b>100</b>		10	7.9	ug/L			01/16/20 14:46	10
Methyl acetate	ND		25	13	ug/L			01/16/20 14:46	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			01/16/20 14:46	10
<b>Methylcyclohexane</b>	<b>440</b>		10	1.6	ug/L			01/16/20 14:46	10
<b>Methylene Chloride</b>	<b>29</b>		10	4.4	ug/L			01/16/20 14:46	10
Styrene	ND		10	7.3	ug/L			01/16/20 14:46	10
Tetrachloroethene	ND		10	3.6	ug/L			01/16/20 14:46	10
<b>Toluene</b>	<b>13</b>		10	5.1	ug/L			01/16/20 14:46	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			01/16/20 14:46	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			01/16/20 14:46	10
Trichloroethene	ND		10	4.6	ug/L			01/16/20 14:46	10
Trichlorofluoromethane	ND		10	8.8	ug/L			01/16/20 14:46	10
Vinyl chloride	ND		10	9.0	ug/L			01/16/20 14:46	10
<b>Xylenes, Total</b>	<b>210</b>		20	6.6	ug/L			01/16/20 14:46	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	92			80 - 120				01/16/20 14:46	10
1,2-Dichloroethane-d4 (Surr)	90			77 - 120				01/16/20 14:46	10
4-Bromofluorobenzene (Surr)	106			73 - 120				01/16/20 14:46	10
Dibromofluoromethane (Surr)	91			75 - 123				01/16/20 14:46	10

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		25	3.3	ug/L		01/16/20 08:58	01/17/20 22:46	5
bis (2-chloroisopropyl) ether	ND		25	2.6	ug/L		01/16/20 08:58	01/17/20 22:46	5
2,4,5-Trichlorophenol	ND		25	2.4	ug/L		01/16/20 08:58	01/17/20 22:46	5
2,4,6-Trichlorophenol	ND		25	3.1	ug/L		01/16/20 08:58	01/17/20 22:46	5
2,4-Dichlorophenol	ND		25	2.6	ug/L		01/16/20 08:58	01/17/20 22:46	5
2,4-Dimethylphenol	ND		25	2.5	ug/L		01/16/20 08:58	01/17/20 22:46	5
2,4-Dinitrophenol	ND		50	11	ug/L		01/16/20 08:58	01/17/20 22:46	5
2,4-Dinitrotoluene	ND		25	2.2	ug/L		01/16/20 08:58	01/17/20 22:46	5
2,6-Dinitrotoluene	ND		25	2.0	ug/L		01/16/20 08:58	01/17/20 22:46	5
2-Chloronaphthalene	ND		25	2.3	ug/L		01/16/20 08:58	01/17/20 22:46	5
2-Chlorophenol	ND		25	2.7	ug/L		01/16/20 08:58	01/17/20 22:46	5
2-Methylphenol	ND		25	2.0	ug/L		01/16/20 08:58	01/17/20 22:46	5
<b>2-Methylnaphthalene</b>	<b>67</b>		25	3.0	ug/L		01/16/20 08:58	01/17/20 22:46	5
2-Nitroaniline	ND		50	2.1	ug/L		01/16/20 08:58	01/17/20 22:46	5

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-165137-1

**Client Sample ID: MW3**

**Lab Sample ID: 480-165137-3**

Date Collected: 01/13/20 12:30

Matrix: Water

Date Received: 01/14/20 11:55

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	ND		25	2.4	ug/L	01/16/20 08:58	01/17/20 22:46		5
3,3'-Dichlorobenzidine	ND		25	2.0	ug/L	01/16/20 08:58	01/17/20 22:46		5
3-Nitroaniline	ND		50	2.4	ug/L	01/16/20 08:58	01/17/20 22:46		5
4,6-Dinitro-2-methylphenol	ND		50	11	ug/L	01/16/20 08:58	01/17/20 22:46		5
4-Bromophenyl phenyl ether	ND		25	2.3	ug/L	01/16/20 08:58	01/17/20 22:46		5
4-Chloro-3-methylphenol	ND		25	2.3	ug/L	01/16/20 08:58	01/17/20 22:46		5
4-Chloroaniline	ND		25	3.0	ug/L	01/16/20 08:58	01/17/20 22:46		5
4-Chlorophenyl phenyl ether	ND		25	1.8	ug/L	01/16/20 08:58	01/17/20 22:46		5
4-Methylphenol	ND		50	1.8	ug/L	01/16/20 08:58	01/17/20 22:46		5
4-Nitroaniline	ND		50	1.3	ug/L	01/16/20 08:58	01/17/20 22:46		5
4-Nitrophenol	ND		50	7.6	ug/L	01/16/20 08:58	01/17/20 22:46		5
Acenaphthene	ND		25	2.1	ug/L	01/16/20 08:58	01/17/20 22:46		5
Acenaphthylene	ND		25	1.9	ug/L	01/16/20 08:58	01/17/20 22:46		5
Acetophenone	ND		25	2.7	ug/L	01/16/20 08:58	01/17/20 22:46		5
Anthracene	ND		25	1.4	ug/L	01/16/20 08:58	01/17/20 22:46		5
Atrazine	ND		25	2.3	ug/L	01/16/20 08:58	01/17/20 22:46		5
Benzaldehyde	ND		25	1.3	ug/L	01/16/20 08:58	01/17/20 22:46		5
Benzo[a]anthracene	ND		25	1.8	ug/L	01/16/20 08:58	01/17/20 22:46		5
Benzo[a]pyrene	ND		25	2.4	ug/L	01/16/20 08:58	01/17/20 22:46		5
Benzo[b]fluoranthene	ND		25	1.7	ug/L	01/16/20 08:58	01/17/20 22:46		5
Benzo[g,h,i]perylene	ND		25	1.8	ug/L	01/16/20 08:58	01/17/20 22:46		5
Benzo[k]fluoranthene	ND		25	3.7	ug/L	01/16/20 08:58	01/17/20 22:46		5
Bis(2-chloroethoxy)methane	ND		25	1.8	ug/L	01/16/20 08:58	01/17/20 22:46		5
Bis(2-chloroethyl)ether	ND		25	2.0	ug/L	01/16/20 08:58	01/17/20 22:46		5
Bis(2-ethylhexyl) phthalate	ND		25	11	ug/L	01/16/20 08:58	01/17/20 22:46		5
Butyl benzyl phthalate	ND		25	5.0	ug/L	01/16/20 08:58	01/17/20 22:46		5
<b>Caprolactam</b>	<b>17</b>	<b>J</b>	25	11	ug/L	01/16/20 08:58	01/17/20 22:46		5
Carbazole	ND		25	1.5	ug/L	01/16/20 08:58	01/17/20 22:46		5
Chrysene	ND		25	1.7	ug/L	01/16/20 08:58	01/17/20 22:46		5
Dibenz(a,h)anthracene	ND		25	2.1	ug/L	01/16/20 08:58	01/17/20 22:46		5
Di-n-butyl phthalate	ND		25	1.6	ug/L	01/16/20 08:58	01/17/20 22:46		5
Di-n-octyl phthalate	ND		25	2.4	ug/L	01/16/20 08:58	01/17/20 22:46		5
Dibenzofuran	ND		50	2.6	ug/L	01/16/20 08:58	01/17/20 22:46		5
Diethyl phthalate	ND		25	1.1	ug/L	01/16/20 08:58	01/17/20 22:46		5
Dimethyl phthalate	ND		25	1.8	ug/L	01/16/20 08:58	01/17/20 22:46		5
Fluoranthene	ND		25	2.0	ug/L	01/16/20 08:58	01/17/20 22:46		5
Fluorene	ND		25	1.8	ug/L	01/16/20 08:58	01/17/20 22:46		5
Hexachlorobenzene	ND		25	2.6	ug/L	01/16/20 08:58	01/17/20 22:46		5
Hexachlorobutadiene	ND		25	3.4	ug/L	01/16/20 08:58	01/17/20 22:46		5
Hexachlorocyclopentadiene	ND		25	3.0	ug/L	01/16/20 08:58	01/17/20 22:46		5
Hexachloroethane	ND		25	3.0	ug/L	01/16/20 08:58	01/17/20 22:46		5
Indeno[1,2,3-cd]pyrene	ND		25	2.4	ug/L	01/16/20 08:58	01/17/20 22:46		5
Isophorone	ND		25	2.2	ug/L	01/16/20 08:58	01/17/20 22:46		5
N-Nitrosodi-n-propylamine	ND		25	2.7	ug/L	01/16/20 08:58	01/17/20 22:46		5
N-Nitrosodiphenylamine	ND		25	2.6	ug/L	01/16/20 08:58	01/17/20 22:46		5
<b>Naphthalene</b>	<b>270</b>		25	3.8	ug/L	01/16/20 08:58	01/17/20 22:46		5
Nitrobenzene	ND		25	1.5	ug/L	01/16/20 08:58	01/17/20 22:46		5
Pentachlorophenol	ND		50	11	ug/L	01/16/20 08:58	01/17/20 22:46		5
Phenanthrene	ND		25	2.2	ug/L	01/16/20 08:58	01/17/20 22:46		5

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-165137-1

## Client Sample ID: MW3

Date Collected: 01/13/20 12:30  
Date Received: 01/14/20 11:55

## Lab Sample ID: 480-165137-3

Matrix: Water

### Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		25	2.0	ug/L		01/16/20 08:58	01/17/20 22:46	5
Pyrene	ND		25	1.7	ug/L		01/16/20 08:58	01/17/20 22:46	5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Nitrobenzene-d5 (Surr)	92		46 - 120				01/16/20 08:58	01/17/20 22:46	5
Phenol-d5 (Surr)	55		22 - 120				01/16/20 08:58	01/17/20 22:46	5
p-Terphenyl-d14 (Surr)	75		60 - 148				01/16/20 08:58	01/17/20 22:46	5
2,4,6-Tribromophenol (Surr)	91		41 - 120				01/16/20 08:58	01/17/20 22:46	5
2-Fluorobiphenyl	104		48 - 120				01/16/20 08:58	01/17/20 22:46	5
2-Fluorophenol (Surr)	75		35 - 120				01/16/20 08:58	01/17/20 22:46	5

### Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		5.0	1.8	ug/L		01/15/20 15:18	01/16/20 18:59	10
PCB-1221	ND		5.0	1.8	ug/L		01/15/20 15:18	01/16/20 18:59	10
PCB-1232	ND		5.0	1.8	ug/L		01/15/20 15:18	01/16/20 18:59	10
PCB-1242	ND		5.0	1.8	ug/L		01/15/20 15:18	01/16/20 18:59	10
PCB-1248	ND		5.0	1.8	ug/L		01/15/20 15:18	01/16/20 18:59	10
PCB-1254	ND		5.0	2.5	ug/L		01/15/20 15:18	01/16/20 18:59	10
PCB-1260	ND		5.0	2.5	ug/L		01/15/20 15:18	01/16/20 18:59	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tetrachloro-m-xylene	16	X	39 - 121				01/15/20 15:18	01/16/20 18:59	10
DCB Decachlorobiphenyl	0	X	19 - 120				01/15/20 15:18	01/16/20 18:59	10

### Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.038		0.015	0.0056	mg/L		01/15/20 07:34	01/15/20 18:32	1
Barium	0.56		0.0020	0.00070	mg/L		01/15/20 07:34	01/15/20 18:32	1
Cadmium	0.00052	J	0.0020	0.00050	mg/L		01/15/20 07:34	01/15/20 18:32	1
Chromium	0.023		0.0040	0.0010	mg/L		01/15/20 07:34	01/15/20 18:32	1
Lead	0.038		0.010	0.0030	mg/L		01/15/20 07:34	01/15/20 18:32	1
Selenium	ND		0.025	0.0087	mg/L		01/15/20 07:34	01/15/20 18:32	1
Silver	ND		0.0060	0.0017	mg/L		01/15/20 07:34	01/15/20 18:32	1

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		01/16/20 11:44	01/16/20 15:12	1

## Client Sample ID: TRIP BLANK

Date Collected: 01/13/20 09:50  
Date Received: 01/14/20 11:55

## Lab Sample ID: 480-165137-4

Matrix: Water

### Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L		01/15/20 14:45		1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L		01/15/20 14:45		1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L		01/15/20 14:45		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L		01/15/20 14:45		1
1,1-Dichloroethane	ND		1.0	0.38	ug/L		01/15/20 14:45		1
1,1-Dichloroethene	ND		1.0	0.29	ug/L		01/15/20 14:45		1

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-165137-1

## Client Sample ID: TRIP BLANK

Date Collected: 01/13/20 09:50  
Date Received: 01/14/20 11:55

## Lab Sample ID: 480-165137-4

Matrix: Water

### Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L		01/15/20 14:45		1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L		01/15/20 14:45		1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L		01/15/20 14:45		1
1,2-Dichloroethane	ND		1.0	0.21	ug/L		01/15/20 14:45		1
1,2-Dichloropropane	ND		1.0	0.72	ug/L		01/15/20 14:45		1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L		01/15/20 14:45		1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L		01/15/20 14:45		1
2-Butanone (MEK)	ND		10	1.3	ug/L		01/15/20 14:45		1
2-Hexanone	ND		5.0	1.2	ug/L		01/15/20 14:45		1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L		01/15/20 14:45		1
Acetone	ND		10	3.0	ug/L		01/15/20 14:45		1
Benzene	ND		1.0	0.41	ug/L		01/15/20 14:45		1
Bromodichloromethane	ND		1.0	0.39	ug/L		01/15/20 14:45		1
Bromoform	ND		1.0	0.26	ug/L		01/15/20 14:45		1
Bromomethane	ND		1.0	0.69	ug/L		01/15/20 14:45		1
Carbon disulfide	ND		1.0	0.19	ug/L		01/15/20 14:45		1
Carbon tetrachloride	ND		1.0	0.27	ug/L		01/15/20 14:45		1
Chlorobenzene	ND		1.0	0.75	ug/L		01/15/20 14:45		1
Dibromochloromethane	ND		1.0	0.32	ug/L		01/15/20 14:45		1
Chloroethane	ND		1.0	0.32	ug/L		01/15/20 14:45		1
Chloroform	ND		1.0	0.34	ug/L		01/15/20 14:45		1
Chloromethane	ND		1.0	0.35	ug/L		01/15/20 14:45		1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L		01/15/20 14:45		1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L		01/15/20 14:45		1
Cyclohexane	ND		1.0	0.18	ug/L		01/15/20 14:45		1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L		01/15/20 14:45		1
Ethylbenzene	ND		1.0	0.74	ug/L		01/15/20 14:45		1
1,2-Dibromoethane	ND		1.0	0.73	ug/L		01/15/20 14:45		1
Isopropylbenzene	ND		1.0	0.79	ug/L		01/15/20 14:45		1
Methyl acetate	ND		2.5	1.3	ug/L		01/15/20 14:45		1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L		01/15/20 14:45		1
Methylcyclohexane	ND		1.0	0.16	ug/L		01/15/20 14:45		1
Methylene Chloride	ND		1.0	0.44	ug/L		01/15/20 14:45		1
Styrene	ND		1.0	0.73	ug/L		01/15/20 14:45		1
Tetrachloroethene	ND		1.0	0.36	ug/L		01/15/20 14:45		1
Toluene	ND		1.0	0.51	ug/L		01/15/20 14:45		1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L		01/15/20 14:45		1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L		01/15/20 14:45		1
Trichloroethene	ND		1.0	0.46	ug/L		01/15/20 14:45		1
Trichlorofluoromethane	ND		1.0	0.88	ug/L		01/15/20 14:45		1
Vinyl chloride	ND		1.0	0.90	ug/L		01/15/20 14:45		1
Xylenes, Total	ND		2.0	0.66	ug/L		01/15/20 14:45		1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		01/15/20 14:45	1
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		01/15/20 14:45	1
4-Bromofluorobenzene (Surr)	114		73 - 120		01/15/20 14:45	1
Dibromofluoromethane (Surr)	109		75 - 123		01/15/20 14:45	1

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# Surrogate Summary

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-165137-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (80-120)	DCA (77-120)	BFB (73-120)	DBFM (75-123)
480-165137-1	MW1	95	102	113	107
480-165137-1 MS	MW1	95	100	115	100
480-165137-1 MSD	MW1	98	97	116	99
480-165137-2	MW2	97	95	116	102
480-165137-3	MW3	92	90	106	91
480-165137-4	TRIP BLANK	99	101	114	109
LCS 480-513595/5	Lab Control Sample	101	104	113	108
LCS 480-513745/5	Lab Control Sample	100	100	116	105
MB 480-513595/7	Method Blank	96	107	111	106
MB 480-513745/7	Method Blank	98	100	114	99

### Surrogate Legend

TOL = Toluene-d8 (Surr)  
DCA = 1,2-Dichloroethane-d4 (Surr)  
BFB = 4-Bromofluorobenzene (Surr)  
DBFM = Dibromofluoromethane (Surr)

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		NBZ (46-120)	PHL (22-120)	TPHd14 (60-148)	TBP (41-120)	FBP (48-120)	2FP (35-120)
480-165137-1	MW1	85	49	78	76	92	66
480-165137-2	MW2	89	56	58 X	87	99	72
480-165137-3	MW3	92	55	75	91	104	75
LCS 480-513796/2-A	Lab Control Sample	94	61	100	101	93	73
LCSD 480-513796/3-A	Lab Control Sample Dup	101	62	107	111	100	77
MB 480-513796/1-A	Method Blank	79	47	96	70	83	61

### Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)  
PHL = Phenol-d5 (Surr)  
TPHd14 = p-Terphenyl-d14 (Surr)  
TBP = 2,4,6-Tribromophenol (Surr)  
FBP = 2-Fluorobiphenyl  
2FP = 2-Fluorophenol (Surr)

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (39-121)	DCBP1 (19-120)
480-165137-1	MW1	64	43
480-165137-1 MS	MW1	66	38
480-165137-1 MSD	MW1	76	42
480-165137-2	MW2	51	27
480-165137-3	MW3	16 X	0 X
LCS 480-513696/2-A	Lab Control Sample	70	36
MB 480-513696/1-A	Method Blank	55	44

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# Surrogate Summary

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-165137-1

## Surrogate Legend

TCX = Tetrachloro-m-xylene  
DCBP = DCB Decachlorobiphenyl

DRAFT

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15

# QC Sample Results

Client: LaBella Associates DPC  
 Project/Site: Church Street Project

Job ID: 480-165137-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 480-513595/7**

**Matrix: Water**

**Analysis Batch: 513595**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/15/20 12:10	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/15/20 12:10	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/15/20 12:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/15/20 12:10	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/15/20 12:10	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/15/20 12:10	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/15/20 12:10	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/15/20 12:10	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/15/20 12:10	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/15/20 12:10	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/15/20 12:10	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/15/20 12:10	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/15/20 12:10	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/15/20 12:10	1
2-Hexanone	ND		5.0	1.2	ug/L			01/15/20 12:10	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/15/20 12:10	1
Acetone	ND		10	3.0	ug/L			01/15/20 12:10	1
Benzene	ND		1.0	0.41	ug/L			01/15/20 12:10	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/15/20 12:10	1
Bromoform	ND		1.0	0.26	ug/L			01/15/20 12:10	1
Bromomethane	ND		1.0	0.69	ug/L			01/15/20 12:10	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/15/20 12:10	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/15/20 12:10	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/15/20 12:10	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/15/20 12:10	1
Chloroethane	ND		1.0	0.32	ug/L			01/15/20 12:10	1
Chloroform	ND		1.0	0.34	ug/L			01/15/20 12:10	1
Chloromethane	ND		1.0	0.35	ug/L			01/15/20 12:10	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/15/20 12:10	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/15/20 12:10	1
Cyclohexane	ND		1.0	0.18	ug/L			01/15/20 12:10	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/15/20 12:10	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/15/20 12:10	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/15/20 12:10	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/15/20 12:10	1
Methyl acetate	ND		2.5	1.3	ug/L			01/15/20 12:10	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/15/20 12:10	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/15/20 12:10	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/15/20 12:10	1
Styrene	ND		1.0	0.73	ug/L			01/15/20 12:10	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/15/20 12:10	1
Toluene	ND		1.0	0.51	ug/L			01/15/20 12:10	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/15/20 12:10	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/15/20 12:10	1
Trichloroethene	ND		1.0	0.46	ug/L			01/15/20 12:10	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/15/20 12:10	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/15/20 12:10	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/15/20 12:10	1

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-165137-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 480-513595/7**

**Matrix: Water**

**Analysis Batch: 513595**

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
Toluene-d8 (Surr)	96		80 - 120				01/15/20 12:10	1
1,2-Dichloroethane-d4 (Surr)	107		77 - 120				01/15/20 12:10	1
4-Bromofluorobenzene (Surr)	111		73 - 120				01/15/20 12:10	1
Dibromofluoromethane (Surr)	106		75 - 123				01/15/20 12:10	1

**Lab Sample ID: LCS 480-513595/5**

**Matrix: Water**

**Analysis Batch: 513595**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
	Added	Result	Qualifier					
1,1,1-Trichloroethane	25.0	29.0		ug/L		116	73 - 126	
1,1,2,2-Tetrachloroethane	25.0	24.7		ug/L		99	76 - 120	
1,1,2-Trichloroethane	25.0	26.9		ug/L		108	76 - 122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	32.0		ug/L		128	61 - 148	
1,1-Dichloroethane	25.0	27.5		ug/L		110	77 - 120	
1,1-Dichloroethene	25.0	26.4		ug/L		106	66 - 127	
1,2,4-Trichlorobenzene	25.0	24.4		ug/L		98	79 - 122	
1,2-Dibromo-3-Chloropropane	25.0	22.2		ug/L		89	56 - 134	
1,2-Dichlorobenzene	25.0	26.0		ug/L		104	80 - 124	
1,2-Dichloroethane	25.0	27.7		ug/L		111	75 - 120	
1,2-Dichloropropane	25.0	27.9		ug/L		112	76 - 120	
1,3-Dichlorobenzene	25.0	26.5		ug/L		106	77 - 120	
1,4-Dichlorobenzene	25.0	26.4		ug/L		106	80 - 120	
2-Butanone (MEK)	125	171		ug/L		137	57 - 140	
2-Hexanone	125	145		ug/L		116	65 - 127	
4-Methyl-2-pentanone (MIBK)	125	144		ug/L		115	71 - 125	
Acetone	125	175		ug/L		140	56 - 142	
Benzene	25.0	27.0		ug/L		108	71 - 124	
Bromodichloromethane	25.0	29.2		ug/L		117	80 - 122	
Bromoform	25.0	29.3		ug/L		117	61 - 132	
Bromomethane	25.0	22.9		ug/L		92	55 - 144	
Carbon disulfide	25.0	26.6		ug/L		106	59 - 134	
Carbon tetrachloride	25.0	29.2		ug/L		117	72 - 134	
Chlorobenzene	25.0	26.5		ug/L		106	80 - 120	
Dibromochloromethane	25.0	27.7		ug/L		111	75 - 125	
Chloroethane	25.0	22.2		ug/L		89	69 - 136	
Chloroform	25.0	25.8		ug/L		103	73 - 127	
Chloromethane	25.0	23.7		ug/L		95	68 - 124	
cis-1,2-Dichloroethene	25.0	27.6		ug/L		110	74 - 124	
cis-1,3-Dichloropropene	25.0	28.1		ug/L		112	74 - 124	
Cyclohexane	25.0	28.9		ug/L		115	59 - 135	
Dichlorodifluoromethane	25.0	20.5		ug/L		82	59 - 135	
Ethylbenzene	25.0	26.4		ug/L		105	77 - 123	
1,2-Dibromoethane	25.0	27.4		ug/L		110	77 - 120	
Isopropylbenzene	25.0	24.8		ug/L		99	77 - 122	
Methyl acetate	50.0	61.9		ug/L		124	74 - 133	
Methyl tert-butyl ether	25.0	24.7		ug/L		99	77 - 120	
Methylcyclohexane	25.0	27.9		ug/L		112	68 - 134	

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-165137-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-513595/5**

**Matrix: Water**

**Analysis Batch: 513595**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Methylene Chloride	25.0	27.0		ug/L		108	75 - 124
Styrene	25.0	26.8		ug/L		107	80 - 120
Tetrachloroethene	25.0	28.6		ug/L		114	74 - 122
Toluene	25.0	26.2		ug/L		105	80 - 122
trans-1,2-Dichloroethene	25.0	26.9		ug/L		108	73 - 127
trans-1,3-Dichloropropene	25.0	27.2		ug/L		109	80 - 120
Trichloroethene	25.0	27.7		ug/L		111	74 - 123
Trichlorofluoromethane	25.0	28.8		ug/L		115	62 - 150
Vinyl chloride	25.0	22.9		ug/L		92	65 - 133
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Toluene-d8 (Surr)	101		80 - 120				
1,2-Dichloroethane-d4 (Surr)	104		77 - 120				
4-Bromofluorobenzene (Surr)	113		73 - 120				
Dibromofluoromethane (Surr)	108		75 - 123				

**Lab Sample ID: MB 480-513745/7**

**Matrix: Water**

**Analysis Batch: 513745**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L		01/16/20 11:12		1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L		01/16/20 11:12		1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L		01/16/20 11:12		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L		01/16/20 11:12		1
1,1-Dichloroethane	ND		1.0	0.38	ug/L		01/16/20 11:12		1
1,1-Dichloroethene	ND		1.0	0.29	ug/L		01/16/20 11:12		1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L		01/16/20 11:12		1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L		01/16/20 11:12		1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L		01/16/20 11:12		1
1,2-Dichloroethane	ND		1.0	0.21	ug/L		01/16/20 11:12		1
1,2-Dichloropropane	ND		1.0	0.72	ug/L		01/16/20 11:12		1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L		01/16/20 11:12		1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L		01/16/20 11:12		1
2-Butanone (MEK)	ND		10	1.3	ug/L		01/16/20 11:12		1
2-Hexanone	ND		5.0	1.2	ug/L		01/16/20 11:12		1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L		01/16/20 11:12		1
Acetone	ND		10	3.0	ug/L		01/16/20 11:12		1
Benzene	ND		1.0	0.41	ug/L		01/16/20 11:12		1
Bromodichloromethane	ND		1.0	0.39	ug/L		01/16/20 11:12		1
Bromoform	ND		1.0	0.26	ug/L		01/16/20 11:12		1
Bromomethane	ND		1.0	0.69	ug/L		01/16/20 11:12		1
Carbon disulfide	ND		1.0	0.19	ug/L		01/16/20 11:12		1
Carbon tetrachloride	ND		1.0	0.27	ug/L		01/16/20 11:12		1
Chlorobenzene	ND		1.0	0.75	ug/L		01/16/20 11:12		1
Dibromochloromethane	ND		1.0	0.32	ug/L		01/16/20 11:12		1
Chloroethane	ND		1.0	0.32	ug/L		01/16/20 11:12		1
Chloroform	ND		1.0	0.34	ug/L		01/16/20 11:12		1

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: LaBella Associates DPC  
 Project/Site: Church Street Project

Job ID: 480-165137-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 480-513745/7**

**Matrix: Water**

**Analysis Batch: 513745**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.35	ug/L			01/16/20 11:12	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/16/20 11:12	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/16/20 11:12	1
Cyclohexane	ND		1.0	0.18	ug/L			01/16/20 11:12	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/16/20 11:12	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/16/20 11:12	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/16/20 11:12	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/16/20 11:12	1
Methyl acetate	ND		2.5	1.3	ug/L			01/16/20 11:12	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/16/20 11:12	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/16/20 11:12	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/16/20 11:12	1
Styrene	ND		1.0	0.73	ug/L			01/16/20 11:12	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/16/20 11:12	1
Toluene	ND		1.0	0.51	ug/L			01/16/20 11:12	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/16/20 11:12	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/16/20 11:12	1
Trichloroethene	ND		1.0	0.46	ug/L			01/16/20 11:12	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/16/20 11:12	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/16/20 11:12	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/16/20 11:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		01/16/20 11:12	1
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		01/16/20 11:12	1
4-Bromofluorobenzene (Surr)	114		73 - 120		01/16/20 11:12	1
Dibromofluoromethane (Surr)	99		75 - 123		01/16/20 11:12	1

**Lab Sample ID: LCS 480-513745/5**

**Matrix: Water**

**Analysis Batch: 513745**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limts
1,1,1-Trichloroethane	25.0	27.1		ug/L		108	73 - 126
1,1,2,2-Tetrachloroethane	25.0	23.0		ug/L		92	76 - 120
1,1,2-Trichloroethane	25.0	26.3		ug/L		105	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	29.4		ug/L		117	61 - 148
1,1-Dichloroethane	25.0	25.3		ug/L		101	77 - 120
1,1-Dichloroethene	25.0	23.8		ug/L		95	66 - 127
1,2,4-Trichlorobenzene	25.0	25.1		ug/L		100	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	22.6		ug/L		90	56 - 134
1,2-Dichlorobenzene	25.0	25.7		ug/L		103	80 - 124
1,2-Dichloroethane	25.0	25.9		ug/L		104	75 - 120
1,2-Dichloropropane	25.0	25.3		ug/L		101	76 - 120
1,3-Dichlorobenzene	25.0	24.9		ug/L		100	77 - 120
1,4-Dichlorobenzene	25.0	25.1		ug/L		100	80 - 120
2-Butanone (MEK)	125	152		ug/L		121	57 - 140
2-Hexanone	125	138		ug/L		111	65 - 127

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-165137-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-513745/5**

**Matrix: Water**

**Analysis Batch: 513745**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
4-Methyl-2-pentanone (MIBK)	125	138		ug/L		110	71 - 125
Acetone	125	142		ug/L		113	56 - 142
Benzene	25.0	25.7		ug/L		103	71 - 124
Bromodichloromethane	25.0	26.1		ug/L		104	80 - 122
Bromoform	25.0	29.7		ug/L		119	61 - 132
Bromomethane	25.0	23.9		ug/L		95	55 - 144
Carbon disulfide	25.0	24.4		ug/L		98	59 - 134
Carbon tetrachloride	25.0	26.3		ug/L		105	72 - 134
Chlorobenzene	25.0	26.1		ug/L		104	80 - 120
Dibromochloromethane	25.0	27.1		ug/L		109	75 - 125
Chloroethane	25.0	22.4		ug/L		90	69 - 136
Chloroform	25.0	23.7		ug/L		95	73 - 127
Chloromethane	25.0	22.8		ug/L		91	68 - 124
cis-1,2-Dichloroethene	25.0	26.5		ug/L		106	74 - 124
cis-1,3-Dichloropropene	25.0	26.6		ug/L		106	74 - 124
Cyclohexane	25.0	26.5		ug/L		106	59 - 135
Dichlorodifluoromethane	25.0	18.8		ug/L		75	59 - 135
Ethylbenzene	25.0	25.5		ug/L		102	77 - 123
1,2-Dibromoethane	25.0	26.7		ug/L		107	77 - 120
Isopropylbenzene	25.0	24.2		ug/L		97	77 - 122
Methyl acetate	50.0	56.2		ug/L		112	74 - 133
Methyl tert-butyl ether	25.0	23.9		ug/L		96	77 - 120
Methylcyclohexane	25.0	25.7		ug/L		103	68 - 134
Methylene Chloride	25.0	25.8		ug/L		103	75 - 124
Styrene	25.0	26.0		ug/L		104	80 - 120
Tetrachloroethene	25.0	28.7		ug/L		115	74 - 122
Toluene	25.0	25.3		ug/L		101	80 - 122
trans-1,2-Dichloroethene	25.0	25.7		ug/L		103	73 - 127
trans-1,3-Dichloropropene	25.0	25.8		ug/L		103	80 - 120
Trichloroethene	25.0	26.5		ug/L		106	74 - 123
Trichlorofluoromethane	25.0	28.0		ug/L		112	62 - 150
Vinyl chloride	25.0	23.4		ug/L		94	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	100		80 - 120
1,2-Dichloroethane-d4 (Surr)	100		77 - 120
4-Bromofluorobenzene (Surr)	116		73 - 120
Dibromofluoromethane (Surr)	105		75 - 123

**Lab Sample ID: 480-165137-1 MS**

**Matrix: Water**

**Analysis Batch: 513745**

**Client Sample ID: MW1**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
	ND	F1	25.0	33.4	F1	ug/L		134	73 - 126
1,1,1-Trichloroethane	ND	F1	25.0	26.3		ug/L		105	76 - 120
1,1,2,2-Tetrachloroethane	ND		25.0	28.5		ug/L		114	76 - 122
1,1,2-Trichloroethane	ND		25.0	35.2		ug/L		141	61 - 148
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0						

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-165137-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 480-165137-1 MS**

**Matrix: Water**

**Analysis Batch: 513745**

**Client Sample ID: MW1**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethane	ND	F1	25.0	30.5	F1	ug/L	122	77 - 120	
1,1-Dichloroethene	ND		25.0	30.3		ug/L	121	66 - 127	
1,2,4-Trichlorobenzene	ND		25.0	29.5		ug/L	118	79 - 122	
1,2-Dibromo-3-Chloropropane	ND		25.0	23.7		ug/L	95	56 - 134	
1,2-Dichlorobenzene	ND		25.0	30.7		ug/L	123	80 - 124	
1,2-Dichloroethane	ND		25.0	29.8		ug/L	119	75 - 120	
1,2-Dichloropropane	ND		25.0	29.2		ug/L	117	76 - 120	
1,3-Dichlorobenzene	ND	F1	25.0	30.4	F1	ug/L	122	77 - 120	
1,4-Dichlorobenzene	ND		25.0	29.5		ug/L	118	78 - 124	
2-Butanone (MEK)	ND		125	150		ug/L	120	57 - 140	
2-Hexanone	ND		125	141		ug/L	112	65 - 127	
4-Methyl-2-pentanone (MIBK)	ND		125	144		ug/L	115	71 - 125	
Acetone	ND		125	143		ug/L	114	56 - 142	
Benzene	ND		25.0	30.4		ug/L	122	71 - 124	
Bromodichloromethane	ND		25.0	30.1		ug/L	121	80 - 122	
Bromoform	ND		25.0	29.5		ug/L	118	61 - 132	
Bromomethane	ND	F2	25.0	21.3		ug/L	85	55 - 144	
Carbon disulfide	ND		25.0	29.0		ug/L	116	59 - 134	
Carbon tetrachloride	ND		25.0	32.6		ug/L	130	72 - 134	
Chlorobenzene	ND		25.0	29.1		ug/L	116	80 - 120	
Dibromochloromethane	ND		25.0	29.0		ug/L	116	75 - 125	
Chloroethane	ND		25.0	23.2		ug/L	93	69 - 136	
Chloroform	ND		25.0	28.8		ug/L	115	73 - 127	
Chloromethane	ND		25.0	22.9		ug/L	91	68 - 124	
cis-1,2-Dichloroethene	ND	F1	25.0	31.4	F1	ug/L	126	74 - 124	
cis-1,3-Dichloropropene	ND		25.0	28.5		ug/L	114	74 - 124	
Cyclohexane	ND		25.0	31.1		ug/L	124	59 - 135	
Dichlorodifluoromethane	ND		25.0	17.5		ug/L	70	59 - 135	
Ethylbenzene	ND		25.0	30.2		ug/L	121	77 - 123	
1,2-Dibromoethane	ND		25.0	28.0		ug/L	112	77 - 120	
Isopropylbenzene	ND		25.0	29.2		ug/L	117	77 - 122	
Methyl acetate	ND		50.0	59.0		ug/L	118	74 - 133	
Methyl tert-butyl ether	ND		25.0	26.2		ug/L	105	77 - 120	
Methylcyclohexane	ND		25.0	30.3		ug/L	121	68 - 134	
Methylene Chloride	ND		25.0	29.9		ug/L	119	75 - 124	
Styrene	ND		25.0	29.1		ug/L	116	80 - 120	
Tetrachloroethene	ND	F1	25.0	34.5	F1	ug/L	138	74 - 122	
Toluene	ND		25.0	30.1		ug/L	120	80 - 122	
trans-1,2-Dichloroethene	ND	F1	25.0	31.9	F1	ug/L	128	73 - 127	
trans-1,3-Dichloropropene	ND		25.0	28.0		ug/L	112	80 - 120	
Trichloroethene	ND		25.0	30.8		ug/L	123	74 - 123	
Trichlorofluoromethane	ND		25.0	29.1		ug/L	117	62 - 150	
Vinyl chloride	ND		25.0	23.0		ug/L	92	65 - 133	

Surrogate	MS		
	%Recovery	Qualifier	Limits
Toluene-d8 (Surr)	95		80 - 120
1,2-Dichloroethane-d4 (Surr)	100		77 - 120
4-Bromofluorobenzene (Surr)	115		73 - 120

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-165137-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 480-165137-1 MS**

**Matrix: Water**

**Analysis Batch: 513745**

**Client Sample ID: MW1**  
**Prep Type: Total/NA**

Surrogate	MS	MS	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)			100		75 - 123

**Lab Sample ID: 480-165137-1 MSD**

**Matrix: Water**

**Analysis Batch: 513745**

**Client Sample ID: MW1**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec.	Limits	RPD	Limit
1,1,1-Trichloroethane	ND	F1	25.0	29.5		ug/L		118	73 - 126	12	15
1,1,2,2-Tetrachloroethane	ND		25.0	24.2		ug/L		97	76 - 120	8	15
1,1,2-Trichloroethane	ND		25.0	28.0		ug/L		112	76 - 122	2	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	31.8		ug/L		127	61 - 148	10	20
1,1-Dichloroethane	ND	F1	25.0	28.0		ug/L		112	77 - 120	9	20
1,1-Dichloroethene	ND		25.0	27.0		ug/L		108	66 - 127	12	16
1,2,4-Trichlorobenzene	ND		25.0	25.6		ug/L		102	79 - 122	14	20
1,2-Dibromo-3-Chloropropane	ND		25.0	21.6		ug/L		86	56 - 134	9	15
1,2-Dichlorobenzene	ND		25.0	27.4		ug/L		110	80 - 124	11	20
1,2-Dichloroethane	ND		25.0	27.0		ug/L		108	75 - 120	10	20
1,2-Dichloropropane	ND		25.0	27.6		ug/L		111	76 - 120	5	20
1,3-Dichlorobenzene	ND	F1	25.0	27.7		ug/L		111	77 - 120	9	20
1,4-Dichlorobenzene	ND		25.0	27.3		ug/L		109	78 - 124	8	20
2-Butanone (MEK)	ND		125	152		ug/L		122	57 - 140	2	20
2-Hexanone	ND		125	140		ug/L		112	65 - 127	0	15
4-Methyl-2-pentanone (MIBK)	ND		125	144		ug/L		115	71 - 125	0	35
Acetone	ND		125	143		ug/L		115	56 - 142	0	15
Benzene	ND		25.0	28.2		ug/L		113	71 - 124	8	13
Bromodichloromethane	ND		25.0	28.4		ug/L		114	80 - 122	6	15
Bromoform	ND		25.0	27.5		ug/L		110	61 - 132	7	15
Bromomethane	ND	F2	25.0	24.9	F2	ug/L		100	55 - 144	16	15
Carbon disulfide	ND		25.0	26.9		ug/L		108	59 - 134	8	15
Carbon tetrachloride	ND		25.0	30.0		ug/L		120	72 - 134	8	15
Chlorobenzene	ND		25.0	28.2		ug/L		113	80 - 120	3	25
Dibromochloromethane	ND		25.0	27.9		ug/L		112	75 - 125	4	15
Chloroethane	ND		25.0	23.4		ug/L		94	69 - 136	1	15
Chloroform	ND		25.0	25.9		ug/L		104	73 - 127	11	20
Chloromethane	ND		25.0	23.6		ug/L		94	68 - 124	3	15
cis-1,2-Dichloroethene	ND	F1	25.0	27.5		ug/L		110	74 - 124	13	15
cis-1,3-Dichloropropene	ND		25.0	26.4		ug/L		106	74 - 124	8	15
Cyclohexane	ND		25.0	28.1		ug/L		112	59 - 135	10	20
Dichlorodifluoromethane	ND		25.0	18.0		ug/L		72	59 - 135	3	20
Ethylbenzene	ND		25.0	29.1		ug/L		116	77 - 123	4	15
1,2-Dibromoethane	ND		25.0	28.5		ug/L		114	77 - 120	2	15
Isopropylbenzene	ND		25.0	26.8		ug/L		107	77 - 122	9	20
Methyl acetate	ND		50.0	55.9		ug/L		112	74 - 133	5	20
Methyl tert-butyl ether	ND		25.0	23.5		ug/L		94	77 - 120	11	37
Methylcyclohexane	ND		25.0	27.0		ug/L		108	68 - 134	12	20
Methylene Chloride	ND		25.0	28.6		ug/L		114	75 - 124	4	15
Styrene	ND		25.0	27.4		ug/L		110	80 - 120	6	20
Tetrachloroethene	ND	F1	25.0	32.3	F1	ug/L		129	74 - 122	7	20

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-165137-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 480-165137-1 MSD**

**Matrix: Water**

**Analysis Batch: 513745**

**Client Sample ID: MW1**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec.	RPD
Toluene	ND		25.0	28.2		ug/L		113	80 - 122
trans-1,2-Dichloroethene	ND	F1	25.0	28.6		ug/L		114	73 - 127
trans-1,3-Dichloropropene	ND		25.0	27.2		ug/L		109	80 - 120
Trichloroethene	ND		25.0	28.0		ug/L		112	74 - 123
Trichlorofluoromethane	ND		25.0	28.8		ug/L		115	62 - 150
Vinyl chloride	ND		25.0	24.6		ug/L		98	65 - 133
Surrogate				MSD %Recovery	MSD Qualifier	Limits		Limits	
Toluene-d8 (Surr)				98		80 - 120			
1,2-Dichloroethane-d4 (Surr)				97		77 - 120			
4-Bromofluorobenzene (Surr)				116		73 - 120			
Dibromofluoromethane (Surr)				99		75 - 123			

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 480-513796/1-A**

**Matrix: Water**

**Analysis Batch: 514003**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 513796**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		01/16/20 08:58	01/17/20 17:37	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		01/16/20 08:58	01/17/20 17:37	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		01/16/20 08:58	01/17/20 17:37	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		01/16/20 08:58	01/17/20 17:37	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		01/16/20 08:58	01/17/20 17:37	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		01/16/20 08:58	01/17/20 17:37	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		01/16/20 08:58	01/17/20 17:37	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		01/16/20 08:58	01/17/20 17:37	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		01/16/20 08:58	01/17/20 17:37	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		01/16/20 08:58	01/17/20 17:37	1
2-Chlorophenol	ND		5.0	0.53	ug/L		01/16/20 08:58	01/17/20 17:37	1
2-Methylphenol	ND		5.0	0.40	ug/L		01/16/20 08:58	01/17/20 17:37	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		01/16/20 08:58	01/17/20 17:37	1
2-Nitroaniline	ND		10	0.42	ug/L		01/16/20 08:58	01/17/20 17:37	1
2-Nitrophenol	ND		5.0	0.48	ug/L		01/16/20 08:58	01/17/20 17:37	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		01/16/20 08:58	01/17/20 17:37	1
3-Nitroaniline	ND		10	0.48	ug/L		01/16/20 08:58	01/17/20 17:37	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		01/16/20 08:58	01/17/20 17:37	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		01/16/20 08:58	01/17/20 17:37	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		01/16/20 08:58	01/17/20 17:37	1
4-Chloroaniline	ND		5.0	0.59	ug/L		01/16/20 08:58	01/17/20 17:37	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		01/16/20 08:58	01/17/20 17:37	1
4-Methylphenol	ND		10	0.36	ug/L		01/16/20 08:58	01/17/20 17:37	1
4-Nitroaniline	ND		10	0.25	ug/L		01/16/20 08:58	01/17/20 17:37	1
4-Nitrophenol	ND		10	1.5	ug/L		01/16/20 08:58	01/17/20 17:37	1
Acenaphthene	ND		5.0	0.41	ug/L		01/16/20 08:58	01/17/20 17:37	1
Acenaphthylene	ND		5.0	0.38	ug/L		01/16/20 08:58	01/17/20 17:37	1
Acetophenone	ND		5.0	0.54	ug/L		01/16/20 08:58	01/17/20 17:37	1
Anthracene	ND		5.0	0.28	ug/L		01/16/20 08:58	01/17/20 17:37	1

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# QC Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-165137-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 480-513796/1-A**

**Matrix: Water**

**Analysis Batch: 514003**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 513796**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier					Prepared	Analyzed	Dil Fac
Atrazine	ND		5.0	0.46	ug/L	01/16/20 08:58	01/17/20 17:37		1
Benzaldehyde	ND		5.0	0.27	ug/L	01/16/20 08:58	01/17/20 17:37		1
Benzo[a]anthracene	ND		5.0	0.36	ug/L	01/16/20 08:58	01/17/20 17:37		1
Benzo[a]pyrene	ND		5.0	0.47	ug/L	01/16/20 08:58	01/17/20 17:37		1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L	01/16/20 08:58	01/17/20 17:37		1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L	01/16/20 08:58	01/17/20 17:37		1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L	01/16/20 08:58	01/17/20 17:37		1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L	01/16/20 08:58	01/17/20 17:37		1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L	01/16/20 08:58	01/17/20 17:37		1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L	01/16/20 08:58	01/17/20 17:37		1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L	01/16/20 08:58	01/17/20 17:37		1
Caprolactam	ND		5.0	2.2	ug/L	01/16/20 08:58	01/17/20 17:37		1
Carbazole	ND		5.0	0.30	ug/L	01/16/20 08:58	01/17/20 17:37		1
Chrysene	ND		5.0	0.33	ug/L	01/16/20 08:58	01/17/20 17:37		1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L	01/16/20 08:58	01/17/20 17:37		1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L	01/16/20 08:58	01/17/20 17:37		1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L	01/16/20 08:58	01/17/20 17:37		1
Dibenzofuran	ND		10	0.51	ug/L	01/16/20 08:58	01/17/20 17:37		1
Diethyl phthalate	ND		5.0	0.22	ug/L	01/16/20 08:58	01/17/20 17:37		1
Dimethyl phthalate	ND		5.0	0.36	ug/L	01/16/20 08:58	01/17/20 17:37		1
Fluoranthene	ND		5.0	0.40	ug/L	01/16/20 08:58	01/17/20 17:37		1
Fluorene	ND		5.0	0.36	ug/L	01/16/20 08:58	01/17/20 17:37		1
Hexachlorobenzene	ND		5.0	0.51	ug/L	01/16/20 08:58	01/17/20 17:37		1
Hexachlorobutadiene	ND		5.0	0.68	ug/L	01/16/20 08:58	01/17/20 17:37		1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L	01/16/20 08:58	01/17/20 17:37		1
Hexachloroethane	ND		5.0	0.59	ug/L	01/16/20 08:58	01/17/20 17:37		1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L	01/16/20 08:58	01/17/20 17:37		1
Isophorone	ND		5.0	0.43	ug/L	01/16/20 08:58	01/17/20 17:37		1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L	01/16/20 08:58	01/17/20 17:37		1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L	01/16/20 08:58	01/17/20 17:37		1
Naphthalene	ND		5.0	0.76	ug/L	01/16/20 08:58	01/17/20 17:37		1
Nitrobenzene	ND		5.0	0.29	ug/L	01/16/20 08:58	01/17/20 17:37		1
Pentachlorophenol	ND		10	2.2	ug/L	01/16/20 08:58	01/17/20 17:37		1
Phenanthrene	ND		5.0	0.44	ug/L	01/16/20 08:58	01/17/20 17:37		1
Phenol	ND		5.0	0.39	ug/L	01/16/20 08:58	01/17/20 17:37		1
Pyrene	ND		5.0	0.34	ug/L	01/16/20 08:58	01/17/20 17:37		1

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Nitrobenzene-d5 (Surr)	79		46 - 120			01/16/20 08:58	01/17/20 17:37	1
Phenol-d5 (Surr)	47		22 - 120			01/16/20 08:58	01/17/20 17:37	1
p-Terphenyl-d14 (Surr)	96		60 - 148			01/16/20 08:58	01/17/20 17:37	1
2,4,6-Tribromophenol (Surr)	70		41 - 120			01/16/20 08:58	01/17/20 17:37	1
2-Fluorobiphenyl	83		48 - 120			01/16/20 08:58	01/17/20 17:37	1
2-Fluorophenol (Surr)	61		35 - 120			01/16/20 08:58	01/17/20 17:37	1

# QC Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-165137-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 480-513796/2-A**

**Matrix: Water**

**Analysis Batch: 514003**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 513796**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
Biphenyl	32.0	28.6		ug/L		89	59 - 120	
bis (2-chloroisopropyl) ether	32.0	27.3		ug/L		85	21 - 136	
2,4,5-Trichlorophenol	32.0	30.3		ug/L		95	65 - 126	
2,4,6-Trichlorophenol	32.0	32.2		ug/L		101	64 - 120	
2,4-Dichlorophenol	32.0	31.7		ug/L		99	63 - 120	
2,4-Dimethylphenol	32.0	31.7		ug/L		99	47 - 120	
2,4-Dinitrophenol	64.0	77.2		ug/L		121	31 - 137	
2,4-Dinitrotoluene	32.0	33.0		ug/L		103	69 - 120	
2,6-Dinitrotoluene	32.0	32.2		ug/L		101	68 - 120	
2-Chloronaphthalene	32.0	28.7		ug/L		90	58 - 120	
2-Chlorophenol	32.0	29.3		ug/L		91	48 - 120	
2-Methylphenol	32.0	28.4		ug/L		89	39 - 120	
2-Methylnaphthalene	32.0	28.5		ug/L		89	59 - 120	
2-Nitroaniline	32.0	32.2		ug/L		101	54 - 127	
2-Nitrophenol	32.0	29.9		ug/L		93	52 - 125	
3,3'-Dichlorobenzidine	64.0	57.1		ug/L		89	49 - 135	
3-Nitroaniline	32.0	27.0		ug/L		84	51 - 120	
4,6-Dinitro-2-methylphenol	64.0	75.0		ug/L		117	46 - 136	
4-Bromophenyl phenyl ether	32.0	31.1		ug/L		97	65 - 120	
4-Chloro-3-methylphenol	32.0	31.6		ug/L		99	61 - 123	
4-Chloroaniline	32.0	24.8		ug/L		77	30 - 120	
4-Chlorophenyl phenyl ether	32.0	30.8		ug/L		96	62 - 120	
4-Methylphenol	32.0	27.8		ug/L		87	29 - 131	
4-Nitroaniline	32.0	32.1		ug/L		100	65 - 120	
4-Nitrophenol	64.0	60.0		ug/L		94	45 - 120	
Acenaphthene	32.0	29.5		ug/L		92	60 - 120	
Acenaphthylene	32.0	31.0		ug/L		97	63 - 120	
Acetophenone	32.0	30.1		ug/L		94	45 - 120	
Anthracene	32.0	31.2		ug/L		97	67 - 120	
Atrazine	64.0	74.8		ug/L		117	71 - 130	
Benzaldehyde	64.0	54.1		ug/L		84	10 - 140	
Benzo[a]anthracene	32.0	31.3		ug/L		98	70 - 121	
Benzo[a]pyrene	32.0	31.9		ug/L		100	60 - 123	
Benzo[b]fluoranthene	32.0	33.5		ug/L		105	66 - 126	
Benzo[g,h,i]perylene	32.0	33.5		ug/L		105	66 - 150	
Benzo[k]fluoranthene	32.0	33.5		ug/L		105	65 - 124	
Bis(2-chloroethoxy)methane	32.0	30.4		ug/L		95	50 - 128	
Bis(2-chloroethyl)ether	32.0	28.9		ug/L		90	44 - 120	
Bis(2-ethylhexyl) phthalate	32.0	31.6		ug/L		99	63 - 139	
Butyl benzyl phthalate	32.0	31.3		ug/L		98	70 - 129	
Caprolactam	64.0	25.4		ug/L		40	22 - 120	
Carbazole	32.0	32.9		ug/L		103	66 - 123	
Chrysene	32.0	31.6		ug/L		99	69 - 120	
Dibenz(a,h)anthracene	32.0	33.3		ug/L		104	65 - 135	
Di-n-butyl phthalate	32.0	32.7		ug/L		102	69 - 131	
Di-n-octyl phthalate	32.0	31.3		ug/L		98	63 - 140	
Dibenzofuran	32.0	30.2		ug/L		94	66 - 120	
Diethyl phthalate	32.0	32.8		ug/L		102	59 - 127	

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-165137-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 480-513796/2-A**

**Matrix: Water**

**Analysis Batch: 514003**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 513796**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
Dimethyl phthalate	32.0	32.2		ug/L		101	68 - 120	
Fluoranthene	32.0	32.4		ug/L		101	69 - 126	
Fluorene	32.0	31.5		ug/L		98	66 - 120	
Hexachlorobenzene	32.0	31.2		ug/L		98	61 - 120	
Hexachlorobutadiene	32.0	24.1		ug/L		75	35 - 120	
Hexachlorocyclopentadiene	32.0	24.5		ug/L		77	31 - 120	
Hexachloroethane	32.0	23.9		ug/L		75	43 - 120	
Indeno[1,2,3-cd]pyrene	32.0	33.2		ug/L		104	69 - 146	
Isophorone	32.0	31.8		ug/L		99	55 - 120	
N-Nitrosodi-n-propylamine	32.0	31.0		ug/L		97	32 - 140	
N-Nitrosodiphenylamine	32.0	30.7		ug/L		96	61 - 120	
Naphthalene	32.0	27.7		ug/L		87	57 - 120	
Nitrobenzene	32.0	30.6		ug/L		96	53 - 123	
Pentachlorophenol	64.0	60.4		ug/L		94	29 - 136	
Phenanthrene	32.0	31.0		ug/L		97	68 - 120	
Phenol	32.0	19.2		ug/L		60	17 - 120	
Pyrene	32.0	31.0		ug/L		97	70 - 125	

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	94		46 - 120
Phenol-d5 (Surr)	61		22 - 120
p-Terphenyl-d14 (Surr)	100		60 - 148
2,4,6-Tribromophenol (Surr)	101		41 - 120
2-Fluorobiphenyl	93		48 - 120
2-Fluorophenol (Surr)	73		35 - 120

**Lab Sample ID: LCSD 480-513796/3-A**

**Matrix: Water**

**Analysis Batch: 514003**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 513796**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD	Limit
Biphenyl	32.0	31.0		ug/L		97	59 - 120	8	20	
bis (2-chloroisopropyl) ether	32.0	28.6		ug/L		89	21 - 136	5	24	
2,4,5-Trichlorophenol	32.0	33.1		ug/L		104	65 - 126	9	18	
2,4,6-Trichlorophenol	32.0	34.8		ug/L		109	64 - 120	8	19	
2,4-Dichlorophenol	32.0	33.9		ug/L		106	63 - 120	6	19	
2,4-Dimethylphenol	32.0	32.6		ug/L		102	47 - 120	3	42	
2,4-Dinitrophenol	64.0	84.0		ug/L		131	31 - 137	8	22	
2,4-Dinitrotoluene	32.0	36.1		ug/L		113	69 - 120	9	20	
2,6-Dinitrotoluene	32.0	35.0		ug/L		109	68 - 120	8	15	
2-Chloronaphthalene	32.0	30.5		ug/L		95	58 - 120	6	21	
2-Chlorophenol	32.0	30.0		ug/L		94	48 - 120	2	25	
2-Methylphenol	32.0	28.6		ug/L		89	39 - 120	1	27	
2-Methylnaphthalene	32.0	30.2		ug/L		94	59 - 120	6	21	
2-Nitroaniline	32.0	34.6		ug/L		108	54 - 127	7	15	
2-Nitrophenol	32.0	32.6		ug/L		102	52 - 125	9	18	
3,3'-Dichlorobenzidine	64.0	56.2		ug/L		88	49 - 135	2	25	
3-Nitroaniline	32.0	27.8		ug/L		87	51 - 120	3	19	

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: LaBella Associates DPC  
 Project/Site: Church Street Project

Job ID: 480-165137-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 480-513796/3-A**

**Matrix: Water**

**Analysis Batch: 514003**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 513796**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,6-Dinitro-2-methylphenol	64.0	81.8		ug/L	128	46 - 136	9	15	
4-Bromophenyl phenyl ether	32.0	33.9		ug/L	106	65 - 120	9	15	
4-Chloro-3-methylphenol	32.0	32.8		ug/L	103	61 - 123	4	27	
4-Chloroaniline	32.0	24.8		ug/L	78	30 - 120	0	22	
4-Chlorophenyl phenyl ether	32.0	32.8		ug/L	103	62 - 120	6	16	
4-Methylphenol	32.0	29.4		ug/L	92	29 - 131	6	24	
4-Nitroaniline	32.0	32.8		ug/L	102	65 - 120	2	24	
4-Nitrophenol	64.0	62.8		ug/L	98	45 - 120	5	48	
Acenaphthene	32.0	31.9		ug/L	100	60 - 120	8	24	
Acenaphthylene	32.0	33.3		ug/L	104	63 - 120	7	18	
Acetophenone	32.0	31.8		ug/L	99	45 - 120	6	20	
Anthracene	32.0	33.3		ug/L	104	67 - 120	7	15	
Atrazine	64.0	81.3		ug/L	127	71 - 130	8	20	
Benzaldehyde	64.0	56.8		ug/L	89	10 - 140	5	20	
Benzo[a]anthracene	32.0	33.9		ug/L	106	70 - 121	8	15	
Benzo[a]pyrene	32.0	34.2		ug/L	107	60 - 123	7	15	
Benzo[b]fluoranthene	32.0	36.5		ug/L	114	66 - 126	9	15	
Benzo[g,h,i]perylene	32.0	35.8		ug/L	112	66 - 150	6	15	
Benzo[k]fluoranthene	32.0	34.3		ug/L	107	65 - 124	2	22	
Bis(2-chloroethoxy)methane	32.0	31.7		ug/L	99	50 - 128	4	17	
Bis(2-chloroethyl)ether	32.0	28.8		ug/L	90	44 - 120	0	21	
Bis(2-ethylhexyl) phthalate	32.0	34.4		ug/L	107	63 - 139	8	15	
Butyl benzyl phthalate	32.0	34.4		ug/L	107	70 - 129	9	16	
Caprolactam	64.0	25.7		ug/L	40	22 - 120	1	20	
Carbazole	32.0	35.2		ug/L	110	66 - 123	7	20	
Chrysene	32.0	33.1		ug/L	104	69 - 120	5	15	
Dibenz(a,h)anthracene	32.0	35.0		ug/L	109	65 - 135	5	15	
Di-n-butyl phthalate	32.0	35.4		ug/L	111	69 - 131	8	15	
Di-n-octyl phthalate	32.0	34.1		ug/L	107	63 - 140	9	16	
Dibenzofuran	32.0	32.5		ug/L	102	66 - 120	7	15	
Diethyl phthalate	32.0	34.9		ug/L	109	59 - 127	6	15	
Dimethyl phthalate	32.0	34.6		ug/L	108	68 - 120	7	15	
Fluoranthene	32.0	34.2		ug/L	107	69 - 126	5	15	
Fluorene	32.0	33.7		ug/L	105	66 - 120	7	15	
Hexachlorobenzene	32.0	33.3		ug/L	104	61 - 120	6	15	
Hexachlorobutadiene	32.0	26.1		ug/L	82	35 - 120	8	44	
Hexachlorocyclopentadiene	32.0	26.8		ug/L	84	31 - 120	9	49	
Hexachloroethane	32.0	25.8		ug/L	81	43 - 120	8	46	
Indeno[1,2,3-cd]pyrene	32.0	35.3		ug/L	110	69 - 146	6	15	
Isophorone	32.0	33.2		ug/L	104	55 - 120	4	17	
N-Nitrosodi-n-propylamine	32.0	32.1		ug/L	100	32 - 140	4	31	
N-Nitrosodiphenylamine	32.0	32.5		ug/L	102	61 - 120	6	15	
Naphthalene	32.0	29.5		ug/L	92	57 - 120	6	29	
Nitrobenzene	32.0	32.0		ug/L	100	53 - 123	4	24	
Pentachlorophenol	64.0	66.1		ug/L	103	29 - 136	9	37	
Phenanthrene	32.0	33.0		ug/L	103	68 - 120	6	15	
Phenol	32.0	19.5		ug/L	61	17 - 120	2	34	
Pyrene	32.0	33.4		ug/L	104	70 - 125	8	19	

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-165137-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID:** LCSD 480-513796/3-A  
**Matrix:** Water  
**Analysis Batch:** 514003

**Client Sample ID:** Lab Control Sample Dup  
**Prep Type:** Total/NA  
**Prep Batch:** 513796

Surrogate	LCSD	LCSD	
	%Recovery	Qualifier	Limits
Nitrobenzene-d5 (Surr)	101		46 - 120
Phenol-d5 (Surr)	62		22 - 120
p-Terphenyl-d14 (Surr)	107		60 - 148
2,4,6-Tribromophenol (Surr)	111		41 - 120
2-Fluorobiphenyl	100		48 - 120
2-Fluorophenol (Surr)	77		35 - 120

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID:** MB 480-513696/1-A  
**Matrix:** Water  
**Analysis Batch:** 513844

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 513696

Analyte	MB	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
PCB-1016	ND			0.50	0.18	ug/L		01/15/20 15:18	01/16/20 15:02	1
PCB-1221	ND			0.50	0.18	ug/L		01/15/20 15:18	01/16/20 15:02	1
PCB-1232	ND			0.50	0.18	ug/L		01/15/20 15:18	01/16/20 15:02	1
PCB-1242	ND			0.50	0.18	ug/L		01/15/20 15:18	01/16/20 15:02	1
PCB-1248	ND			0.50	0.18	ug/L		01/15/20 15:18	01/16/20 15:02	1
PCB-1254	ND			0.50	0.25	ug/L		01/15/20 15:18	01/16/20 15:02	1
PCB-1260	ND			0.50	0.25	ug/L		01/15/20 15:18	01/16/20 15:02	1

Surrogate	MB	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier					
Tetrachloro-m-xylene	55			39 - 121	01/15/20 15:18	01/16/20 15:02	1
DCB Decachlorobiphenyl	44			19 - 120	01/15/20 15:18	01/16/20 15:02	1

**Lab Sample ID:** LCS 480-513696/2-A  
**Matrix:** Water  
**Analysis Batch:** 513844

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 513696

Analyte		Spike	LCS	LCS	%Rec.
		Added	Result	Qualifier	Unit
PCB-1016		4.00	3.08		ug/L
PCB-1260		4.00	2.83		ug/L

Surrogate	LCS	LCS		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier					
Tetrachloro-m-xylene	70			39 - 121	01/15/20 15:18	01/16/20 15:02	1
DCB Decachlorobiphenyl	36			19 - 120	01/15/20 15:18	01/16/20 15:02	1

**Lab Sample ID:** 480-165137-1 MS  
**Matrix:** Water  
**Analysis Batch:** 513844

**Client Sample ID:** MW1  
**Prep Type:** Total/NA  
**Prep Batch:** 513696

Analyte	Sample	Sample	Spike	MS	MS	%Rec.
	Result	Qualifier	Added	Result	Qualifier	Unit
PCB-1016	ND		4.00	3.02		ug/L
PCB-1260	ND		4.00	1.91		ug/L

Surrogate	MS	MS		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier					
Tetrachloro-m-xylene	66			39 - 121	01/15/20 15:18	01/16/20 15:02	1

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# QC Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-165137-1

## Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID:** 480-165137-1 MS

**Matrix:** Water

**Analysis Batch:** 513844

**Client Sample ID:** MW1

**Prep Type:** Total/NA

**Prep Batch:** 513696

**Surrogate**      **MS**    **MS**

<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>
DCB Decachlorobiphenyl	38		19 - 120

**Lab Sample ID:** 480-165137-1 MSD

**Matrix:** Water

**Analysis Batch:** 513844

**Client Sample ID:** MW1

**Prep Type:** Total/NA

**Prep Batch:** 513696

**Analyte**      **Sample**    **Sample**

<b>Analyte</b>	<b>Result</b>	<b>Qualifier</b>	<b>Spike</b>	<b>MSD</b>	<b>MSD</b>	<b>Unit</b>	<b>D</b>	<b>%Rec</b>	<b>RPD</b>	<b>Limit</b>
			Added	Result	Qualifier	ug/L				
PCB-1016	ND		4.00	3.29		ug/L	82	28 - 150	9	50
PCB-1260	ND		4.00	2.26		ug/L	57	25 - 131	17	50

**Surrogate**      **MSD**    **MSD**

<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>
Tetrachloro-m-xylene	76		39 - 121
DCB Decachlorobiphenyl	42		19 - 120

## Method: 6010C - Metals (ICP)

**Lab Sample ID:** MB 480-513586/1-A

**Matrix:** Water

**Analysis Batch:** 513788

**Client Sample ID:** Method Blank

**Prep Type:** Total/NA

**Prep Batch:** 513586

**Analyte**      **MB**    **MB**

<b>Analyte</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>	<b>MDL</b>	<b>Unit</b>	<b>D</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Arsenic	ND		0.015	0.0056	mg/L		01/15/20 07:34	01/15/20 17:22	1
Barium	ND		0.0020	0.00070	mg/L		01/15/20 07:34	01/15/20 17:22	1
Cadmium	ND		0.0020	0.00050	mg/L		01/15/20 07:34	01/15/20 17:22	1
Chromium	ND		0.0040	0.0010	mg/L		01/15/20 07:34	01/15/20 17:22	1
Lead	ND		0.010	0.0030	mg/L		01/15/20 07:34	01/15/20 17:22	1
Selenium	ND		0.025	0.0087	mg/L		01/15/20 07:34	01/15/20 17:22	1
Silver	ND		0.0060	0.0017	mg/L		01/15/20 07:34	01/15/20 17:22	1

**Lab Sample ID:** LCS 480-513586/2-A

**Matrix:** Water

**Analysis Batch:** 513788

**Client Sample ID:** Lab Control Sample

**Prep Type:** Total/NA

**Prep Batch:** 513586

**Analyte**      **Spike**    **LCS**

<b>Analyte</b>	<b>Added</b>	<b>Result</b>	<b>Qualifier</b>	<b>Unit</b>	<b>D</b>	<b>%Rec</b>	<b>Limits</b>
Arsenic	0.200	0.186		mg/L		93	80 - 120
Barium	0.200	0.201		mg/L		100	80 - 120
Cadmium	0.200	0.189		mg/L		94	80 - 120
Chromium	0.200	0.189		mg/L		94	80 - 120
Lead	0.200	0.182		mg/L		91	80 - 120
Selenium	0.200	0.181		mg/L		91	80 - 120
Silver	0.0500	0.0484		mg/L		97	80 - 120

**Lab Sample ID:** 480-165137-1 MS

**Matrix:** Water

**Analysis Batch:** 513788

**Client Sample ID:** MW1

**Prep Type:** Total/NA

**Prep Batch:** 513586

**Analyte**      **Sample**    **Sample**

<b>Analyte</b>	<b>Result</b>	<b>Qualifier</b>	<b>Spike</b>	<b>MS</b>	<b>MS</b>	<b>Unit</b>	<b>D</b>	<b>%Rec</b>	<b>Limits</b>
			Added	Result	Qualifier	ug/L			
Arsenic	0.035		0.200	0.187		ug/L	76	75 - 125	
Barium	2.3		0.200	1.13	4	ug/L	-594	75 - 125	

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# QC Sample Results

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-165137-1

## Method: 6010C - Metals (ICP) (Continued)

**Lab Sample ID: 480-165137-1 MS**

**Matrix: Water**

**Analysis Batch: 513788**

**Client Sample ID: MW1**

**Prep Type: Total/NA**

**Prep Batch: 513586**

**%Rec.**

**Limits**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	
Cadmium	0.0035	F1	0.200	0.152	F1	mg/L	74	75 - 125	
Chromium	0.049		0.200	0.210		mg/L	80	75 - 125	
Lead	0.11		0.200	0.288		mg/L	87	75 - 125	
Selenium	ND	F1	0.200	0.144	F1	mg/L	72	75 - 125	
Silver	ND		0.0500	0.0381		mg/L	76	75 - 125	

**Lab Sample ID: 480-165137-1 MSD**

**Matrix: Water**

**Analysis Batch: 513788**

**Client Sample ID: MW1**

**Prep Type: Total/NA**

**Prep Batch: 513586**

**%Rec.**

**RPD**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec		RPD	Limit
Arsenic	0.035		0.200	0.214		mg/L	90	75 - 125		14	20
Barium	2.3		0.200	1.26	4	mg/L	-529	75 - 125		11	20
Cadmium	0.0035	F1	0.200	0.172		mg/L	84	75 - 125		13	20
Chromium	0.049		0.200	0.237		mg/L	94	75 - 125		12	20
Lead	0.11		0.200	0.330		mg/L	108	75 - 125		13	20
Selenium	ND	F1	0.200	0.166		mg/L	83	75 - 125		14	20
Silver	ND		0.0500	0.0440		mg/L	88	75 - 125		14	20

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 480-513718/1-A**

**Matrix: Water**

**Analysis Batch: 513881**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 513718**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		01/16/20 11:44	01/16/20 14:56	1

**Lab Sample ID: LCS 480-513718/2-A**

**Matrix: Water**

**Analysis Batch: 513881**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 513718**

**%Rec.**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	
Mercury	0.00667	0.00723		mg/L	108	80 - 120	

**Lab Sample ID: 480-165137-1 MS**

**Matrix: Water**

**Analysis Batch: 513881**

**Client Sample ID: MW1**

**Prep Type: Total/NA**

**Prep Batch: 513718**

**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	
Mercury	0.0014		0.00667	0.00767		mg/L	94	80 - 120	

**Lab Sample ID: 480-165137-1 MSD**

**Matrix: Water**

**Analysis Batch: 513881**

**Client Sample ID: MW1**

**Prep Type: Total/NA**

**Prep Batch: 513718**

**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec		RPD	Limit
Mercury	0.0014		0.00667	0.00768		mg/L	94	80 - 120		0	20

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# QC Association Summary

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-165137-1

## GC/MS VOA

### Analysis Batch: 513595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165137-4	TRIP BLANK	Total/NA	Water	8260C	
MB 480-513595/7	Method Blank	Total/NA	Water	8260C	
LCS 480-513595/5	Lab Control Sample	Total/NA	Water	8260C	

### Analysis Batch: 513745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165137-1	MW1	Total/NA	Water	8260C	
480-165137-2	MW2	Total/NA	Water	8260C	
480-165137-3	MW3	Total/NA	Water	8260C	
MB 480-513745/7	Method Blank	Total/NA	Water	8260C	
LCS 480-513745/5	Lab Control Sample	Total/NA	Water	8260C	
480-165137-1 MS	MW1	Total/NA	Water	8260C	
480-165137-1 MSD	MW1	Total/NA	Water	8260C	

## GC/MS Semi VOA

### Prep Batch: 513796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165137-1	MW1	Total/NA	Water	3510C	
480-165137-2	MW2	Total/NA	Water	3510C	
480-165137-3	MW3	Total/NA	Water	3510C	
MB 480-513796/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-513796/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-513796/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

### Analysis Batch: 514003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165137-1	MW1	Total/NA	Water	8270D	513796
480-165137-2	MW2	Total/NA	Water	8270D	513796
480-165137-3	MW3	Total/NA	Water	8270D	513796
MB 480-513796/1-A	Method Blank	Total/NA	Water	8270D	513796
LCS 480-513796/2-A	Lab Control Sample	Total/NA	Water	8270D	513796
LCSD 480-513796/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	513796

## GC Semi VOA

### Prep Batch: 513696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165137-1	MW1	Total/NA	Water	3510C	
480-165137-2	MW2	Total/NA	Water	3510C	
480-165137-3	MW3	Total/NA	Water	3510C	
MB 480-513696/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-513696/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-165137-1 MS	MW1	Total/NA	Water	3510C	
480-165137-1 MSD	MW1	Total/NA	Water	3510C	

### Analysis Batch: 513844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165137-1	MW1	Total/NA	Water	8082A	513696
480-165137-2	MW2	Total/NA	Water	8082A	513696
480-165137-3	MW3	Total/NA	Water	8082A	513696
MB 480-513696/1-A	Method Blank	Total/NA	Water	8082A	513696

Eurofins TestAmerica, Buffalo

# QC Association Summary

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-165137-1

## GC Semi VOA (Continued)

### Analysis Batch: 513844 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-513696/2-A	Lab Control Sample	Total/NA	Water	8082A	513696
480-165137-1 MS	MW1	Total/NA	Water	8082A	513696
480-165137-1 MSD	MW1	Total/NA	Water	8082A	513696

## Metals

### Prep Batch: 513586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165137-1	MW1	Total/NA	Water	3005A	8
480-165137-2	MW2	Total/NA	Water	3005A	9
480-165137-3	MW3	Total/NA	Water	3005A	10
MB 480-513586/1-A	Method Blank	Total/NA	Water	3005A	11
LCS 480-513586/2-A	Lab Control Sample	Total/NA	Water	3005A	12
480-165137-1 MS	MW1	Total/NA	Water	3005A	13
480-165137-1 MSD	MW1	Total/NA	Water	3005A	14

### Prep Batch: 513718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165137-1	MW1	Total/NA	Water	7470A	13
480-165137-2	MW2	Total/NA	Water	7470A	14
480-165137-3	MW3	Total/NA	Water	7470A	15
MB 480-513718/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-513718/2-A	Lab Control Sample	Total/NA	Water	7470A	
480-165137-1 MS	MW1	Total/NA	Water	7470A	
480-165137-1 MSD	MW1	Total/NA	Water	7470A	

### Analysis Batch: 513788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165137-1	MW1	Total/NA	Water	6010C	513586
480-165137-2	MW2	Total/NA	Water	6010C	513586
480-165137-3	MW3	Total/NA	Water	6010C	513586
MB 480-513586/1-A	Method Blank	Total/NA	Water	6010C	513586
LCS 480-513586/2-A	Lab Control Sample	Total/NA	Water	6010C	513586
480-165137-1 MS	MW1	Total/NA	Water	6010C	513586
480-165137-1 MSD	MW1	Total/NA	Water	6010C	513586

### Analysis Batch: 513881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165137-1	MW1	Total/NA	Water	7470A	513718
480-165137-2	MW2	Total/NA	Water	7470A	513718
480-165137-3	MW3	Total/NA	Water	7470A	513718
MB 480-513718/1-A	Method Blank	Total/NA	Water	7470A	513718
LCS 480-513718/2-A	Lab Control Sample	Total/NA	Water	7470A	513718
480-165137-1 MS	MW1	Total/NA	Water	7470A	513718
480-165137-1 MSD	MW1	Total/NA	Water	7470A	513718

# Lab Chronicle

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-165137-1

**Client Sample ID: MW1**

Date Collected: 01/13/20 09:50

Date Received: 01/14/20 11:55

**Lab Sample ID: 480-165137-1**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	513745	01/16/20 14:00	CRL	TAL BUF
Total/NA	Prep	3510C			513796	01/16/20 08:58	JMP	TAL BUF
Total/NA	Analysis	8270D		1	514003	01/17/20 21:51	PJQ	TAL BUF
Total/NA	Prep	3510C			513696	01/15/20 15:18	ATG	TAL BUF
Total/NA	Analysis	8082A		1	513844	01/16/20 15:51	W1T	TAL BUF
Total/NA	Prep	3005A			513586	01/15/20 07:34	EMB	TAL BUF
Total/NA	Analysis	6010C		1	513788	01/15/20 17:59	AMH	TAL BUF
Total/NA	Prep	7470A			513718	01/16/20 11:44	BMB	TAL BUF
Total/NA	Analysis	7470A		1	513881	01/16/20 15:05	BMB	TAL BUF

**Client Sample ID: MW2**

Date Collected: 01/13/20 12:56

Date Received: 01/14/20 11:55

**Lab Sample ID: 480-165137-2**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	513745	01/16/20 14:23	CRL	TAL BUF
Total/NA	Prep	3510C			513796	01/16/20 08:58	JMP	TAL BUF
Total/NA	Analysis	8270D		1	514003	01/17/20 22:19	PJQ	TAL BUF
Total/NA	Prep	3510C			513696	01/15/20 15:18	ATG	TAL BUF
Total/NA	Analysis	8082A		1	513844	01/16/20 16:04	W1T	TAL BUF
Total/NA	Prep	3005A			513586	01/15/20 07:34	EMB	TAL BUF
Total/NA	Analysis	6010C		1	513788	01/15/20 18:28	AMH	TAL BUF
Total/NA	Prep	7470A			513718	01/16/20 11:44	BMB	TAL BUF
Total/NA	Analysis	7470A		1	513881	01/16/20 15:10	BMB	TAL BUF

**Client Sample ID: MW3**

Date Collected: 01/13/20 12:30

Date Received: 01/14/20 11:55

**Lab Sample ID: 480-165137-3**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	513745	01/16/20 14:46	CRL	TAL BUF
Total/NA	Prep	3510C			513796	01/16/20 08:58	JMP	TAL BUF
Total/NA	Analysis	8270D		5	514003	01/17/20 22:46	PJQ	TAL BUF
Total/NA	Prep	3510C			513696	01/15/20 15:18	ATG	TAL BUF
Total/NA	Analysis	8082A		10	513844	01/16/20 18:59	W1T	TAL BUF
Total/NA	Prep	3005A			513586	01/15/20 07:34	EMB	TAL BUF
Total/NA	Analysis	6010C		1	513788	01/15/20 18:32	AMH	TAL BUF
Total/NA	Prep	7470A			513718	01/16/20 11:44	BMB	TAL BUF
Total/NA	Analysis	7470A		1	513881	01/16/20 15:12	BMB	TAL BUF

Eurofins TestAmerica, Buffalo

# Lab Chronicle

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-165137-1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 480-165137-4**

Date Collected: 01/13/20 09:50

Matrix: Water

Date Received: 01/14/20 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	513595	01/15/20 14:45	CRL	TAL BUF

**Laboratory References:**

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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# Accreditation/Certification Summary

Client: LaBella Associates DPC

Project/Site: Church Street Project

Job ID: 480-165137-1

## Laboratory: Eurofins TestAmerica, Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0686	07-06-20
California	State	2931	04-01-20 *
Connecticut	State	PH-0568	09-30-20
Florida	NELAP	E87672	06-30-20
Georgia	State	10026 (NY)	03-31-20 *
Georgia (DW)	State	956	03-31-20 *
Illinois	NELAP	200003	09-30-19 *
Iowa	State	374	02-28-21
Kansas	NELAP	E-10187	01-31-20
Kentucky (DW)	State	90029	12-31-20 *
Kentucky (UST)	State	30	03-31-20 *
Kentucky (WW)	State	KY90029	12-31-20
Louisiana	NELAP	02031	06-30-20
Maine	State	NY00044	12-04-20
Maryland	State	294	03-31-20 *
Massachusetts	State	M-NY044	06-30-20
Michigan	State	9937	03-31-20 *
Minnesota	NELAP	1524384	12-31-20
New Hampshire	NELAP	2337	11-17-19 *
New Jersey	NELAP	NY455	06-30-20
New York	NELAP	10026	04-01-20 *
North Dakota	State	R-176	03-31-20 *
Oklahoma	State	9421	09-01-20
Oregon	NELAP	NY200003	06-10-20
Pennsylvania	NELAP	68-00281	07-31-20
Rhode Island	State	LAO00328	12-30-20 *
Tennessee	State	02970	03-31-20 *
Texas	NELAP	T104704412-18-10	08-01-20
USDA	US Federal Programs	P330-18-00039	02-06-21
Virginia	NELAP	460185	09-14-20
Washington	State	C784	02-10-20 *
Wisconsin	State	998310390	08-31-20

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Buffalo

# Method Summary

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-165137-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
7470A	Preparation, Mercury	SW846	TAL BUF

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

# Sample Summary

Client: LaBella Associates DPC  
Project/Site: Church Street Project

Job ID: 480-165137-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-165137-1	MW1	Water	01/13/20 09:50	01/14/20 11:55	
480-165137-2	MW2	Water	01/13/20 12:56	01/14/20 11:55	
480-165137-3	MW3	Water	01/13/20 12:30	01/14/20 11:55	
480-165137-4	TRIP BLANK	Water	01/13/20 09:50	01/14/20 11:55	

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## Login Sample Receipt Checklist

Client: LaBella Associates DPC

Job Number: 480-165137-1

**Login Number:** 165137

**List Source:** Eurofins TestAmerica, Buffalo

**List Number:** 1

**Creator:** Wallace, Cameron

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	



## APPENDIX 3

Data Usability Summary Report

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**DUSR TO BE INSERTED UPON COMPLETION**



## APPENDIX 4

Rough Order of Magnitude Cost Estimate

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## ROUGH ORDER OF MAGNITUDE REMEDIAL COST ESTIMATE

### Former Emkay Trading Site 58 Church Street, Arcade, New York

Item	Estimated Quantity	Unit Cost	Estimated Total
<b>UST Removals</b>			
Vac Truck & Operator	16 hrs	\$140 /hr	\$2,240
Fluid disposal	6,500 Gallons	\$0.75 /Gallon	\$4,875
Tank Removal	1 LS	\$8,000 /LS	<u>\$8,000</u>
		<i>UST Removal:</i>	<u><b>\$15,115</b></u>
<b>Removal of Petroleum Impacted Soil (Filling Station Area)</b>			
Soil Excavation/Loading	2,500 tons	\$7 /ton	\$17,500
Soil Transport and Disposal	2,500 tons	\$40 /ton	\$100,000
Provide and Place Backfill	2,500 tons	\$19 /ton	<u>\$47,500</u>
		<i>Removal of Petroleum Impacted Soil:</i>	<u><b>\$165,000</b></u>
<b>In-Situ Groundwater Remediation (Filling Station Area)</b>			
In-Situ Reagent	20,000 SF	\$2.50 /SF	\$50,000
Geoprobe & Operator	10 days	\$1,800 /day	\$18,000
Pre and Post Groundwater Sampling	1 LS	\$7,000 /LS	<u>\$7,000</u>
		<i>Limited Soil/Fill Removal/Disposal:</i>	<u><b>\$75,000</b></u>
<b>Limited Soil/Fill Removal/Disposal (Hot Spot Removal)</b>			
Soil Excavation/Loading	500 tons	\$7 /ton	\$3,500
Soil Transport and Disposal	500 tons	\$40 /ton	\$20,000
Provide and Place Backfill	500 tons	\$19 /ton	<u>\$9,500</u>
		<i>Limited Soil/Fill Removal/Disposal:</i>	<u><b>\$33,000</b></u>
<b>Vegetated Soil Cover System</b>			
Place and Compact Clean Backfill and Topsoil	1 LS	\$50,000 /LS	\$50,000
Purchase/Deliver 1.5' of Backfill	8,400 CY	\$35 /CY	\$294,000
Purchase/Deliver 6" of Topsoil	2,800 CY	\$37 /CY	\$103,600
Imported Soil/Fill Testing and Approval	1 LS	\$10,000 /LS	\$10,000
Demarkation Layer	30 each	\$500 /roll	\$15,000
Erosion Control Measures	1 LS	\$10,000 /LS	\$10,000
Pre and Post Topographic Survey	1 LS	\$15,000 /LS	\$15,000
Hydroseed	4.5 Acres	\$2,000 /Acres	<u>\$9,000</u>
		<i>Vegetated Soil Cover System:</i>	<u><b>\$506,600</b></u>
<b>Demolition of Building Complex</b>			
Controlled Demolition & Disposal of Existing Bldg. Complex & Debris	1 SF	\$750,000 /LS	<u>\$750,000</u>
		<i>Building Demolition:</i>	<u><b>\$750,000</b></u>
<b>Engineering, Monitoring &amp; Oversight</b>			
Engineering, Monitoring & Oversight per BCP Process (25%)			<u><b>\$386,179</b></u>
		<i>Engineering and Oversight:</i>	<u><b>\$386,179</b></u>
<b>Estimated Total</b>			<b><u>\$1,930,894</u></b>

**Notes/Assumptions:**

1. All contaminated soil/fill to be removed from the site for off-site disposal is assumed to be classified as non-hazardous waste for disposal purposes.
2. Assumes only the eastern 8.5 acres of the Site will be redeveloped under the BCP, and that the western portion will remain undeveloped and not require remediation.
3. Assumes redevelopment of the Site will involve the construction of impervious cover (i.e., asphalt parking areas, concrete building slabs, etc.) on 60% of the 8.5 acres, and that these cover materials will satisfy the BCP requirements for engineering controls.
4. Assumes the remaining 40% of the 8.5 acres will require a soil cover consisting of 2' of clean soil pursuant to restricted residential use guidelines.
5. The volumes of contaminated soil/fill are estimates based on limited data. Additional data is required to fully delineate the extent of contamination.
6. The area of impacted groundwater to be subject to in-situ treatment has been estimated based on limited data.  
Additional data is required to fully delineate the extent of groundwater contamination and the corresponding treatment area.
7. Assumes the building complex will be demolished using controlled demolition methods to address Asbestos Containing Material (ACM)
8. This estimate is preliminary in nature and has an accuracy of +/- 50%.
9. Actual costs will be a function of the remedial actions required by NYSDEC & NYSDOH, which have yet to be defined and may vary significantly from those estimated herein.