



Additional Site Investigations Report

for

Bright Cleaners Tenant Space
Franklin Centre
7249 South 76th Street
Franklin, Milwaukee County, Wisconsin

DNR FID #241928940
DNR BRRTS #02-41-580017

February 9, 2021

Apex Project No. PECO_2017-101

Prepared for:

Franklin Station LLC, c/o Phillips Edison & Company
11501 Northlake Drive
Cincinnati, Ohio 45249



February 9, 2021

Mr. Joseph Martinez
State of Wisconsin
Department of Natural Resources
Southeast Region Headquarters
2300 N. Dr. Martin Luther King, Jr. Drive
Milwaukee, Wisconsin 53212-3128

Re: Additional Site Investigations Report
Bright Cleaners Tenant Space, Franklin Centre
7249 South 76th Street, Franklin, Wisconsin
Wisconsin DNR Facility Identification #241928940
Wisconsin DNR BRRTS Activity #02-41-580017

Dear Mr. Martinez:

Franklin Station LLC retained Apex to conduct a Site Investigations at the Bright Cleaners dry cleaner tenant space at 7249 South 76th Street. This tenant space is located within Franklin Station LLC's Franklin Centre, a retail strip mall located at 7199-7255 South 76th Street in Franklin, Milwaukee County, Wisconsin (Site).

Historical records show dry cleaning operations were conducted in the tenant space from 1995 to 2019. Soil, groundwater and sub-slab vapor testing was conducted to assess the nature and extent of chlorinated volatile organic compounds (cVOCs) impacts near the tenant space. To address cVOCs identified beneath the dry cleaners, a soil vapor extraction (SVE) system was installed to remediation the Site.

To further assess the effectiveness of the SVE system, the Wisconsin Department of Natural Resources (DNR) requested that additional investigations be conducted. Enclosed is Apex's Additional Site Investigations Report.

If you have any questions regarding our findings, please contact Steve Newlin at (847) 956-8589 x3210. Thank you for attention to this matter.

Respectfully Submitted,
Apex Companies, LLC

Handwritten signature of Jane Allan in black ink.

Jane Allan
Senior Project Manager

Handwritten signature of Steve Newlin in black ink.

Steve Newlin
Senior Project Manager

cc: Mr. Tom Meyers, Franklin Station LLC
Attachments

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EXECUTIVE SUMMARY

Franklin Station LLC (Client) retained Apex to conduct a Site Investigation at the Bright Cleaners tenant space at 7249 South 76th Street. This tenant space is located within Client's Franklin Centre, a retail strip mall located at 7199-7255 South 76th Street in Franklin, Milwaukee County, Wisconsin (Site).

Historical records show two dry cleaning businesses have operated dry cleaning plants in this tenant space: Sun Cleaners in 1995 and Bright Cleaners from 1999 to 2019. Several rounds of soil sampling were conducted by others in the tenant space in 2011. One soil sample located outside of the Bright Cleaners by the rear door was found to have a concentration of 1,1,1-trichloroethane (1,1,1-TCA) that exceeded the Residual Contaminant Levels (RCLs). A deeper sample collected from the same location had a 1,1,1-TCA concentration below RCLs. Additional samples were collected and analyzed for volatile organic compounds (VOCs) to delineate the extent of contamination. Approximately 58 tons of soil in the vicinity of the 1,1,1-TCA exceedance was excavated, and confirmation samples were collected that showed the contamination had been bounded. These results were submitted to the Wisconsin Department of Natural Resources (DNR). In its letter issued in 2013, the Wisconsin DNR stated that the release at Bright Cleaners is closed and no further investigation or remediation was required at that time.

After 2013, the dry cleaners continued to operate until 2019. To assess the risk of subsurface impacts associated with the continued use of dry cleaning solvents in the tenant space since 2011, Apex conducted limited soil, groundwater and sub-slab vapor sampling at the Site.

The soil analysis detected one volatile organic compound (VOC) [methylene chloride] at concentrations that slightly exceed the RCL for the soil (leaching) component to groundwater in two soil samples. The soil analysis did not detect VOCs at concentrations in excess of RCLs for direct contact. Apex notes that methylene chloride is not associated with dry cleaning solvents, and was not detected in groundwater at concentrations in excess of laboratory Method Detection Limits (MDLs) or Preventative Action Limit (PAL) Groundwater Quality Standards (GQS). Additionally, based on previous assessment, methylene chloride has been present in soil for at least one year and has not been detected in groundwater at both locations. Therefore, it is Apex's opinion that a soil remedy for the groundwater pathway for methylene chloride is not needed¹.

The groundwater analysis did not detect VOCs at concentrations in excess of GQSs and/or Vapor Risk Screening Levels (VRSLs), including methylene chloride. Therefore, it is Apex's opinion that additional groundwater investigation is not warranted.

The sub-slab vapor analysis detected one VOC (tetrachloroethene [PCE]) at concentrations in excess of Vapor Action Levels (VALs) in two sub-slab vapor samples. It is Apex's opinion that the VOCs detected in sub-slab vapor have been delineated. However, to eliminate the vapor exposure pathway for building occupants, mitigation was required. To remediate the VOCs beneath the building, a soil vapor extraction (SVE) system was installed and follow-up monitoring was conducted to verify the

¹ Guidance on Soil Performance Standards, Remediation & Redevelopment Program, Wisconsin DNR, dated January 2014.

system was effectively mitigating vapor intrusion to indoor air. The SVE system was operated for approximately three months. Upon shutdown of the system, confirmatory sampling of soil and sub-slab vapors was conducted. The sample analysis demonstrated that the SVE had reduced the VOCs in soil and sub-slab vapor to concentrations below regulatory standards. Upon receipt of the confirmatory sample results, Apex submitted a Closure Request to the DNR.

In a letter dated September 22, 2021, the DNR indicated that additional site investigations were needed to confirm the VOCs had been mitigated. A work plan dated October 28, 2020 was submitted and approved by the DNR for the additional investigation.

The additional investigation consisted of the sampling of three existing groundwater monitoring wells, the collection of four sub-slab vapor samples, one indoor air, one ambient outdoor air and one soil sample. The samples were analyzed for chlorinated volatile organic compounds (cVOCs). Based on the analytical results, the cVOCs at the Site have been fully mitigated.

**RESULTS OF ADDITIONAL SITE INVESTIGATIONS
BRIGHT CLEANERS TENANT SPACE, FRANKLIN CENTRE
7249 SOUTH 76TH STREET
FRANKLIN, MILWAUKEE COUNTY, WISCONSIN**

1.0 INTRODUCTION

Franklin Station LLC (Client) acquired a retail strip mall located at 7199-7255 South 76th Street in Franklin, Milwaukee County, Wisconsin (the Site) in 2016. The general vicinity of the Site is shown in **Figure 1**.

Prior to acquiring the Site, Client retained Apex Companies, LLC (Apex) to conduct a Phase I Environmental Site Assessment (ESA) at the Franklin Centre. The Phase I ESA identified one recognized environmental condition (REC), use of dry cleaning solvents in a tenant space occupied by Bright Cleaners. The findings of the Phase I ESA were presented in Apex's report dated September 28, 2016.

Client subsequently retained Apex to conduct multiple subsurface investigations at and within the vicinity of the dry cleaner tenant space at 7249 South 76th Street. Based on the investigations a soil vapor extraction (SVE) system was installed to mitigation vapor intrusion to indoor air, and remove soil vapors from beneath the building floor slab. The SVE system was operated from October through December 2018.

1.1 Background Information

The Franklin Centre occupies approximately 14.6-acres and is developed with a 120,000-square foot (SF) multi-tenant shopping center with slab-on-grade floors (no basements), asphalt pavement and landscaped areas as shown in **Figure 2**. The former Bright Cleaners tenant space is 1,280 SF and included a closed loop dry cleaning plant, located near the central portion of the tenant space as shown in **Figure 3**.

Historical records show two businesses operated dry cleaning plants in this tenant space: Sun Cleaners in 1995 and Bright Cleaners from 1999 to 2019. Businesses immediately adjoining the dry cleaner tenant space include Sight 4 Eyes (formerly United Parcel Service Store) to the west and Pizza Hut to the east.

1.2 Previous Reports & Agency Correspondence

Phase I ESA (2016). Apex's September 2016 Phase I ESA report included review of a previous reports by Weaver Boos Consultants North Central, LLC (Weaver) titled *Phase I and Phase II Environmental Site Assessment, Franklin Centre – Parcel 1, 7201 76th Street, Franklin, Wisconsin 53132*, dated May 6, 2001; *Phase I Environmental Site Assessment, 7201 South 76th Street, Franklin, Wisconsin*, dated May 27, 2011; *Limited Phase II Environmental Site Assessment Report, Bright Cleaners, 7249 South 76th Street, Franklin, Wisconsin*, dated June 17, 2011; and, *Supplemental Response Activities, Bright Cleaners, 7249 South 76th Street, Franklin, Wisconsin*, dated June 28, 2011. The use of dry cleaning solvents at Bright Cleaners was identified as a REC.

Phase I ESA (2001 and 2011). In its 2011 Phase I ESA report, Weaver identified the potential presence of subsurface impacts associated with an active drycleaner facility at the Site. Weaver referenced a previous Phase I and Phase II ESA that they conducted at the Site in 2001. According to the 2001 Phase I ESA, Weaver observed staining on the floor in proximity of the dry cleaning machine and improperly stored hazardous materials.

Results of Soil Analysis (2001). Weaver advanced three soil borings in the vicinity of the dry cleaning machine and outside of the tenant space. Soil samples were analyzed for volatile organic compounds (VOCs). Analytical results were below laboratory detection limits.

Results of Soil Analysis (2011). Weaver conducted a Limited Phase II ESA in June 2011 that included the collection of six soil samples from three soil boring locations for VOC analysis. Weaver compared the laboratory results to the Wisconsin Department of Natural Resources' (Wisconsin DNR) Residual Contaminant Levels (RCLs). One soil sample located outside of the Bright Cleaners by the rear door (SP-1 / 2-4') was found to have concentrations of 1,1,1 trichloroethane (1,1,1-TCA) that exceed the RCLs. The deeper sample from SP-1 had 1,1,1-TCA concentrations below RCLs. Weaver did not encounter groundwater during the Limited Phase II ESA. Weaver concluded that VOC impacts appear to be limited to shallow subsurface soils near SP-1.

Supplemental Response Activities (2011). Weaver conducted additional activities at the Site in response to the results of the Limited Phase II ESA in June 2011. Weaver collected six additional shallow soil samples that were analyzed for VOCs to delineate the extent of contamination beyond SP-1. VOCs were not detected at concentrations in excess of laboratory Method Detection Limits (MDLs). Weaver excavated approximately 58 tons of soil in the vicinity of SP-1. Five confirmatory soil samples were collected from the excavation and analyzed for VOCs. Concentrations of VOCs were not found above RCLs in the five confirmatory samples. Weaver concluded that mitigation of the VOC impacts at the Site was successful.

Correspondence from Wisconsin DNR (2013). Apex reviewed a letter from the Wisconsin DNR² titled *Final Case Closure, Bright Cleaners, 7249 South 76th Street, Franklin, WI, DNR BRRTS Activity #: 02-41-557111, FID #: 241928940*, dated December 27, 2013. In its letter, the Wisconsin DNR stated that the release at Bright Cleaners is closed and no further investigation or remediation was required at that time. Apex notes that Bright Cleaners continued to operate the dry cleaning plant from 2011 to the present.

Phase II Limited Subsurface Investigation (2016). To assess the risk of subsurface impacts associated with the continued use of dry cleaning solvents at the Bright Cleaners tenant space since 2011, Apex conducted subsurface assessment on August 31, 2016.

Subsurface assessment included collection of soil samples from three exterior borings (TW-1 through TW-3); collection of groundwater samples from two temporary monitoring wells (TW-1 and TW-3); and collection of sub-slab vapor samples from three locations (SV-1 through SV-3). The soil, groundwater and vapor samples were submitted for VOC analysis. Apex notes that groundwater was not

² Source: Wisconsin Department of Natural Resources (DNR) Bureau for Remediation and Redevelopment Tracking System (BRRTS) data repository.

encountered in one temporary well (TW-2). The locations of the soil borings, temporary monitoring well locations and vapor samples are shown in **Figure 3**.

- The soil analysis detected one VOC (methylene chloride) in one soil sample (TW-1 at 14 feet below ground surface [bgs]) at a concentration that slightly exceeded the soil (leaching) component to groundwater RCL. Apex notes that methylene chloride has historically been used in paint removers, solvent degreasing, plastics processing, blowing agent in foams, solvent extraction, solvent for cellulose acetate, and as an aerosol propellant. Additionally, methylene chloride is a common laboratory contaminant, and was detected in the associated Method Blank. Therefore, it is Apex's opinion that methylene chloride detected in one soil sample is a laboratory artifact and does not reflect contamination from historical Site operations.
- The groundwater analysis did not detect any compounds in excess of Groundwater Quality Standards (GQSs).
- The vapor analysis detected tetrachloroethene (PCE) in two sub-slab vapor samples (SV-1 and SV-2) at concentrations in excess of the commercial Vapor Action Levels (VAL).

Site Investigation Report (November 2017) Expanded subsurface assessment included a non-invasive geophysical survey to clear underground utilities; the advancement of four soil borings (MW-1 through MW-3 and B-1); collection/analysis of soil samples from three soil borings (MW-1, MW-2, and B-1); installation, sampling and analysis of three permanent groundwater monitoring wells (MW-1 through MW-3); and, collection/analysis of three sub-slab vapor samples (SV-4 through SV-6) between August 11 and 17, 2017. The site investigations delineated the extent of VOCs beneath the floor slab in the tenant space.

The locations of the soil borings, monitoring wells and sub-slab sample locations are shown in **Figures 3**. The results of the soil analysis, groundwater analysis and vapor analysis are summarized in **Tables 1, 2 and 3**, respectively.

SSDS Installation Report (October 2018). In response to the exceedances of PCE in in the sub-slab vapor, Apex designed a soil vapor extraction (SVE) system. The system was installed in September of 2018 and operated for approximately three months. The SVE was shut down and post remediation sub-slab confirmation samples and soil samples were collected on December 2018 and June 2019. The vapor and soil samples were analyzed for VOCs and confirmed the remedial actions had achieved the goal of reducing the VOC concentrations to below regulatory standards. Apex submitted a Closure Request to the DNR after the confirmatory results were received.

1.3 Objectives and Scope of Work

At the request of the DNR in a letter dated August 22, 2020, Apex conducted expanded assessment in and near the dry cleaner tenant space to further assess the effectiveness of the remediation VOC impacts. The objective of the additional investigations included the assessment of migrations of VOCs along preferential pathways and to assess potential seasonal fluctuation of VOCs in soil, groundwater

and vapors. The specific scope of work included (1) soil sampling/analysis; (2) groundwater monitoring well sampling/analysis; (3) sub-slab vapor sampling/analysis; and indoor/outdoor air sampling/analysis.

The additional investigation activities are discussed in **Section 2.0**; the results of soil, groundwater, air and sub-slab vapor analysis are discussed in **Section 3.0**; and our conclusions and recommendations are discussed in **Section 4.0**.

2.0 ADDITIONAL SITE INVESTIONS

2.1 Soil Sampling and Analytical Program

2.1.1 Soil Sampling

In order to assess potential migration of VOCs via preferential pathways, Apex collected a soil sample adjacent to the floor drain and along the sewer line beneath the bathroom at the back of the tenant space. A hole was corred through the floor slab then a hand auger was used to collect a soil sample (SS-01) from the native clay beneath the gravel base at approximately 2.5 feet beneath the top of the floor. It is believed that this depth was just below the invert of the floor drain. The soil sample was placed in clean, laboratory-supplied vials, labeled and placed in a chilled cooler pending delivery to the analytical laboratory. Appropriate chain-of-custody protocols were maintained throughout the sample-handling process, and a temperature blank was included in each shipping container.

The locations of the current and historical soil borings are shown in **Figure 3**.

2.1.2 Soil Analysis

Soil sample was analyzed for cVOCs by EPA Method 5035/8260. The soil analysis was performed by Pace Analytical, a National Environmental Laboratory Accreditation Conference (NELAP) certified laboratory. The results of the previous and expanded soil analysis for VOCs are included in **Table 1** and discussed in **Section 3.1**.

2.2 Groundwater Sampling and Analytical Program

2.2.1 Monitoring Well Sampling/Analysis

Apex previously installed three shallow groundwater monitoring wells (MW-1 through MW-3) at the locations shown in **Figure 3**.

Groundwater Sampling. Groundwater samples were collected from each of the three monitoring wells using a low flow pump, in accordance with Wisconsin DNR-approved protocols. The groundwater samples were placed in clean, laboratory-supplied vials, labeled and placed in a chilled cooler pending delivery to the analytical laboratory. Appropriate chain-of-custody protocols were maintained throughout the sample-handling process, and a temperature blank was included in each shipping container.

2.2.2 Groundwater Analysis

One groundwater sample from each monitoring well (three total) was analyzed for VOCs by EPA Method 8260. For quality control purposes, one trip blank was also analyzed for VOCs. The groundwater analysis was also performed by Pace Analytical Services LLC, a NELAC-certified lab. The results of the previous and expanded groundwater analysis are summarized in **Table 2** and discussed in **Section 3.2**.

2.3 Sub-Slab Vapor and Air Sampling and Analytical Program

2.3.1 Vapor Sampling Probe Installation

On January 11, 2021, Apex sampled six additional sub-slab vapor probes (SV-1 and SV-4 through SV-8). The sub-slab vapor probes were installed in the concrete floor slab using a rotary hammer drill at the locations shown in **Figure 3**.

The probes were installed by drilling a small diameter hole (5/8-inch) through the concrete slab into the underlying gravel-aggregate layer, approximately nine inches below the top of the concrete floor. A 1-inch diameter hole was drilled in the same location to approximately 1/2-inch below the top of the concrete floor for leak testing. The hole was then cleared of any debris prior to installing the sub-slab probe. The sub-slab probes consisted of a brass adapter/compression coupling, covered with a silicone tube, which was inserted and seated firmly into the 5/8-inch diameter hole drilled through the concrete slab.

The sub-slab vapor samples were collected using batch-certified 6-liter Summa® canisters (evacuated stainless steel canisters) with (30-minute) flow control valves with a flow rate of 200 milliliters per minute (mL/min). At each of the soil vapor probe location, the Summa® canister was connected to the sample probe and the regulator valve was opened. The initial time and vacuum pressure were recorded and monitored throughout sample collection. Chain of custody documentation was maintained throughout the sample handling process.

Following collection of the vapor samples, the sub-slab probes were removed from the slab and the sampling areas were restored with concrete to match the surrounding hard surface. In areas where vapor pins were installed, the pins were capped to prevent transmission and covered with a secure stainless steel cover. Sub-slab sampling details (i.e., results of field screening and leak testing; sample duration, initial and final canister pressures; and laboratory identification numbers) are recorded in the sub-slab sample logs included in **Appendix B**.

2.3.2 Indoor and Ambient Air Sampling

In addition to the sub-slab vapor sampling, one indoor air in the former dry cleaner space and one ambient outdoor air samples were collected for analysis of cVOCs by EPA Method TO-15. The air samples were collected using batch-certified 6-liter Summa® canisters (evacuated stainless steel canisters) with (8-hour) flow control valves. One summa canister was placed at approximately the height of the normal breathing zone in the central portion of the store and another outside the back door of the store. The regulator valves were then be opened. The initial time and vacuum pressure were recorded and monitored throughout sample collection. The air sample logs are included in **Appendix B**.

2.3.3 Sub-Slab Vapor and Air Analysis

The sub-slab vapor samples (one sample from each vapor probe) and air samples were analyzed for VOCs by EPA Method TO-15. The analysis was performed by Pace Analytical Services LLC. The results of the sub-slab vapor analysis pre-remediation and post-remediation are summarized in **Table 3**, and indoor air analysis is summarized in **Table 4** and are discussed in **Section 3.3**.

3.0 POST-REMEDATION SITE INVESTIGATION RESULTS

The results of the soil, groundwater, sub-slab soil vapor and air analysis are presented in **Tables 1** through **4** and discussed in the following sections.

3.1 Results of the Soil Analysis

Post-remediation, an additional three soil samples were collected (HA-1, HA-2 and SS-01) to assess the effectiveness of the SVE system. The soil samples were analyzed for VOCs by EPA Method 5035/8260. The results of the soil analysis were compared to Non-Industrial and Industrial RCLs for Direct Contact and the soil (leaching) component to groundwater cited in the U.S. Environmental Protection Agency's (USEPA) and Regional Screening Level Web-Calculator (March 2017) in accordance with Wisconsin Administrative Code NR 720 (WAC 720).

The post-remediation soil analysis did not detect VOCs at concentrations in exceedance of the RCLs for the soil (leaching) component to groundwater exposure pathway, direct-contact (non-industrial and industrial), or RCLs for the soil component to groundwater per WAC 720. The laboratory's reportable limit for PCE was slightly higher than the RCL for the soil migration to groundwater. However, the laboratory did not find evidence that PCE was present in the sample below the reportable limit.

The results of the soil analysis, RCLs and sample depths are summarized in **Table 1** and the sample locations are shown in **Figure 3**. Copies of the laboratory reports and the chain-of-custody form are included in **Appendix A**.

3.2 Results of Groundwater Analysis

On December 22, 2020 Apex collected three groundwater samples from three dedicated monitoring wells (MW-1 through MW-3) previously installed. Apex also submitted one trip blank. The groundwater samples were analyzed for VOCs by EPA Method 8260.

The results of the groundwater analysis were compared to GQS (Enforcement Standards and Preventative Action Limits) cited in WAC NR 140.10 Table 1 (WAC 140) and Vapor Risk Screening Levels (VRSLs) for groundwater for a commercial property use based on the USEPA Vapor Intrusion Screening Level Calculator (VISLC, Version 3.5.2, October 2017) with an excess lifetime cancer risk of 1×10^{-5} in accordance with WAC NR 716 (WAC 716).

The groundwater analysis did not detect VOCs at concentrations in excess of GQs or VRSLs. The results of the groundwater analysis, GQs and VISLs are summarized in **Table 2** and the sample locations are shown in **Figure 3**. Copies of the laboratory reports and the chain-of-custody form are included in **Appendix A**.

3.3 Results of the Sub-Slab Vapor and Air Analysis

On December 22, 2020, approximately three weeks prior to collecting the third round of post-remediation sub-slab vapor samples, Apex capped the exhaust pipe of the SVE system with a four-

inch PVC cap taped in place. The capping was conducted to prevent vapors from beneath the floor slab from venting via the exhaust pipe to the atmosphere.

On January 11, 2021 Apex collected 6 sub-slab vapor samples immediately below the concrete floor slab in, and adjacent to the dry cleaner tenant space at the locations shown in **Figure 3**. One soil-slab vapor sample was collected near the center of the Bright Cleaners tenant space (SV-1), one adjacent to the bathroom floor drain (SV-8), two in the adjacent tenant spaces (SV-6 and SV-7) and two samples (SV-4 and SV-5) were used to assess the lateral extent of VOCs in sub-slab vapors. The sub-slab vapor samples were analyzed for cVOCs by EPA Method TO-15.

The results of the sub-slab vapor analysis were compared to sub-slab Vapor Action Levels (VALs) for residential and commercial property use based on the USEPA VISL (Version 3.5.1, May 2016) with an excess lifetime cancer risk of 1×10^{-5} in accordance with WAC 716.

The sub-slab vapor analysis did not detect cVOCs at concentrations in excess of residential or commercial VALs per WAC 716 as summarized below. The results of the vapor analysis and VALs are summarized in **Table 3**. Copies of the laboratory reports and the chain-of custody form are included in **Appendix A**.

The air sampling analysis did not detect cVOCs in excess of the carcinogenic or non-carcinogenic air standards. The air sample analysis is summarized in **Table 4**.

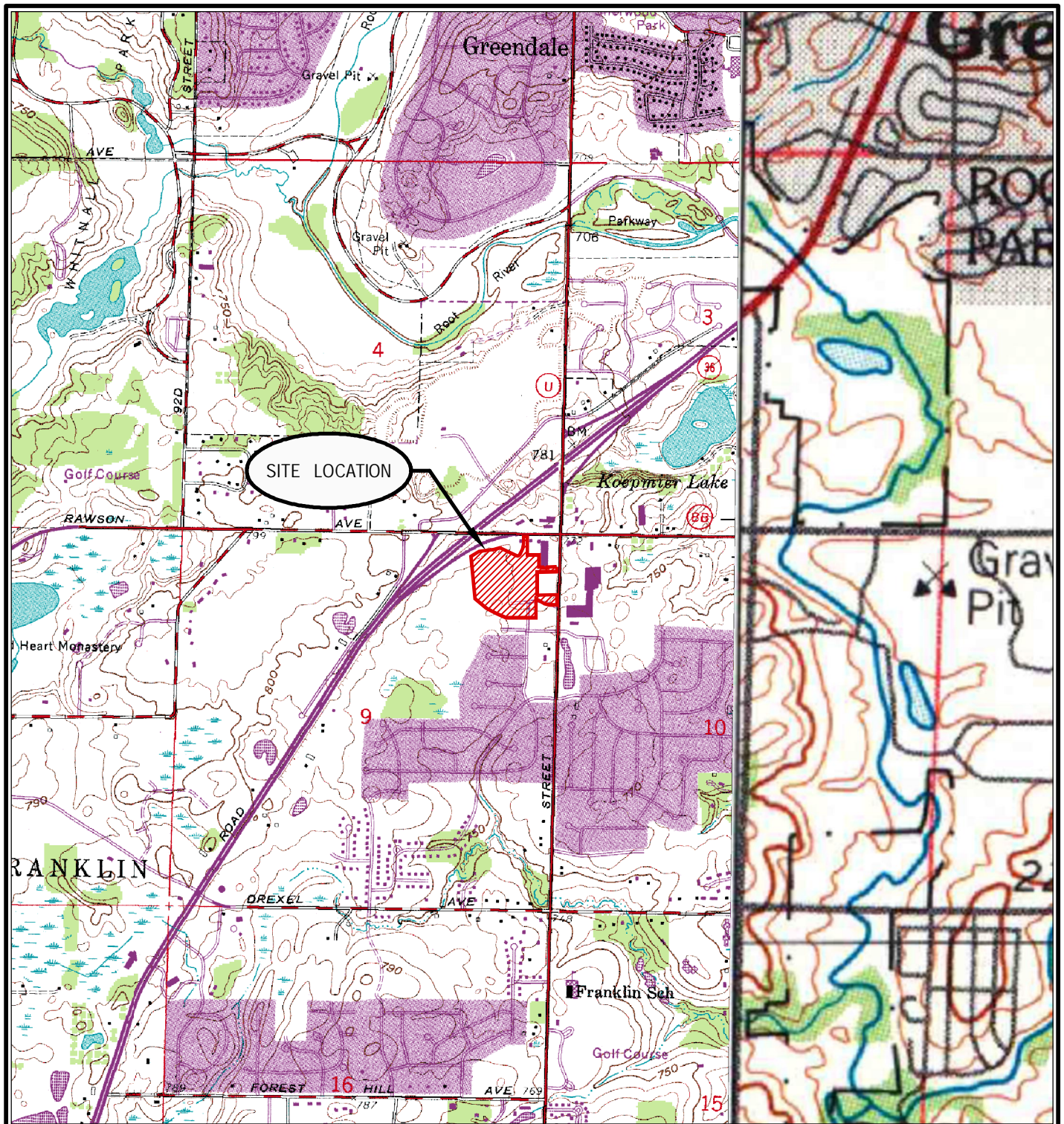
4.0 CONCLUSIONS AND RECOMENDATIONS

Apex conducted two rounds of investigations pre-remediation to assess potential VOC impacts related to the former operations of the Bright cleaners and their use of PCE. During the investigations, soil, groundwater and sub-slab vapor samples were collected and analyzed for VOCs. The soil and groundwater analysis did not identify PCE or it's daughter products at concentrations above the regulatory standards in WAC 716. However, sub-slab vapor samples collected in the area of the former dry cleaning machine had detected concentrations of PCE above the Sub-Slab Vapor Action Level.

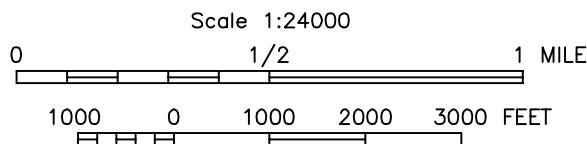
To address the sub-slab vapor exceedances and potential vapor intrusion to indoor air, Apex installed a soil vapor extraction (SVE) system. The SVE system was operated for three months. After shut down of the system and a period of equilibration, Apex conducted confirmatory sampling. The post-remediation investigations included soil (8/6/2019), indoor air (6/28/19) and sub-slab vapor samples (6/28/19). The post-remediation sample analysis did not detected VOCs at concentrations above the associated regulatory standards within the WAC.

At the request of the DNR, Apex collected and additional round of post-remediation confirmatory sampling during the heating season to assess for potential seasonal fluctuation and also evaluate preferential pathways. Confirmatory sampling included the sampling of the three existing groundwater monitoring wells, a soil sample collected adjacent to the bathroom floor drain, one indoor air, one ambient outdoor air and six sub-slab vapor samples. Samples were analyzed for VOCs and the analysis did not detect concentrations above regulatory standards.

Based upon the results of post-remediation confirmation sampling conducted during both the heating and cooling seasons, the operation of the SVE system has remediated PCE impacts associated with the former operation of the dry cleaning store. The Site meets the criteria for closure with no institutional or engineering controls.



QUADRANGLE LOCATION



(SOURCE OF MAP IS USGS 7.5 MINUTE QUADRANGLE MAP, HALES CORNERS (1994), WISCONSIN)



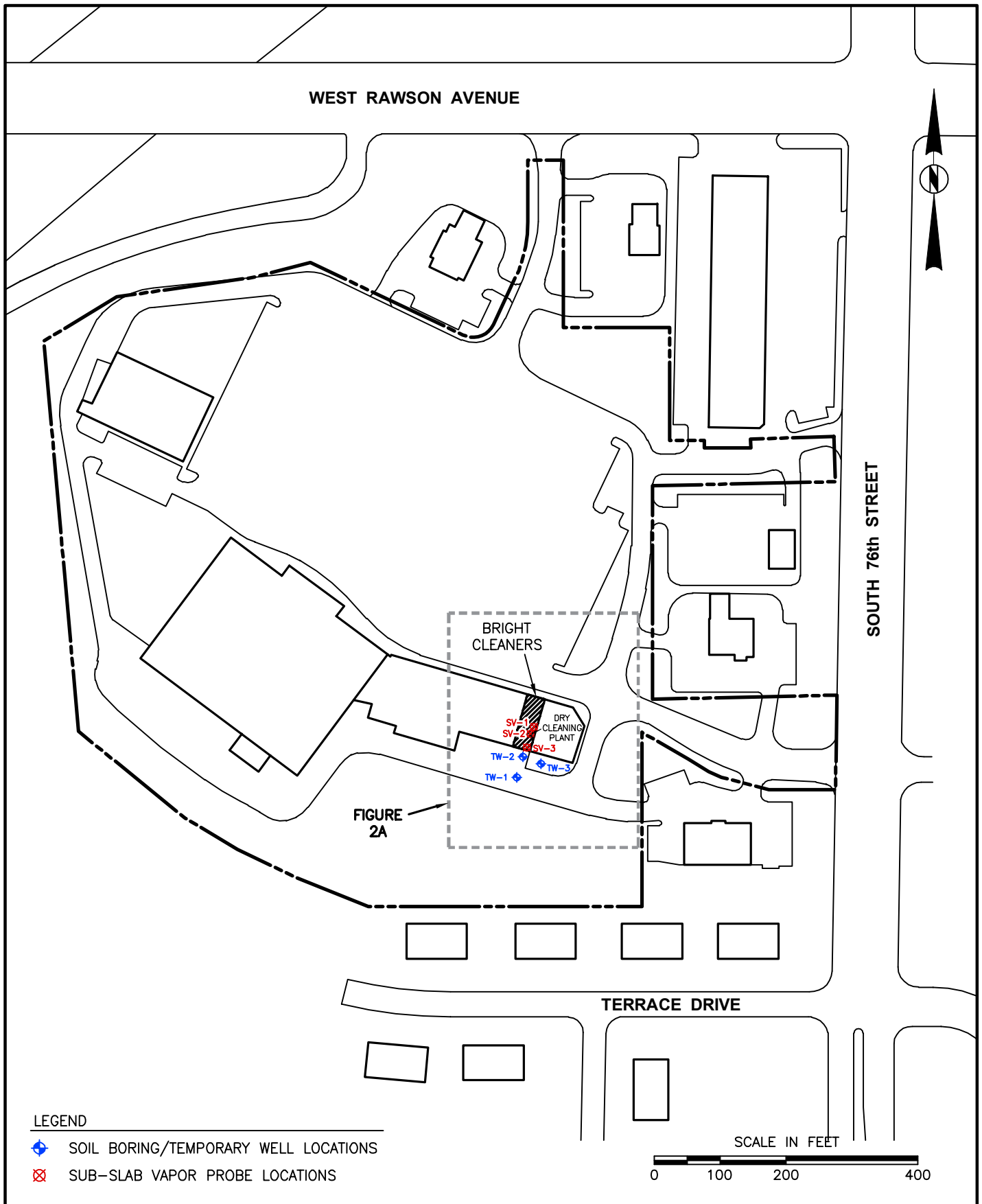
CHECK BY	JB
DRAWN BY	OS
DATE	8-29-16
SCALE	AS SHOWN
CAD NO.	PECO_2016.78A
PRJ NO.	PECO_2016.78

SITE LOCATION MAP
 BRIGHT CLEANERS – FRANKLIN
 7249 SOUTH 76th STREE
 FRANKLIN, WISCONSIN





FIGURE

1



LEGEND

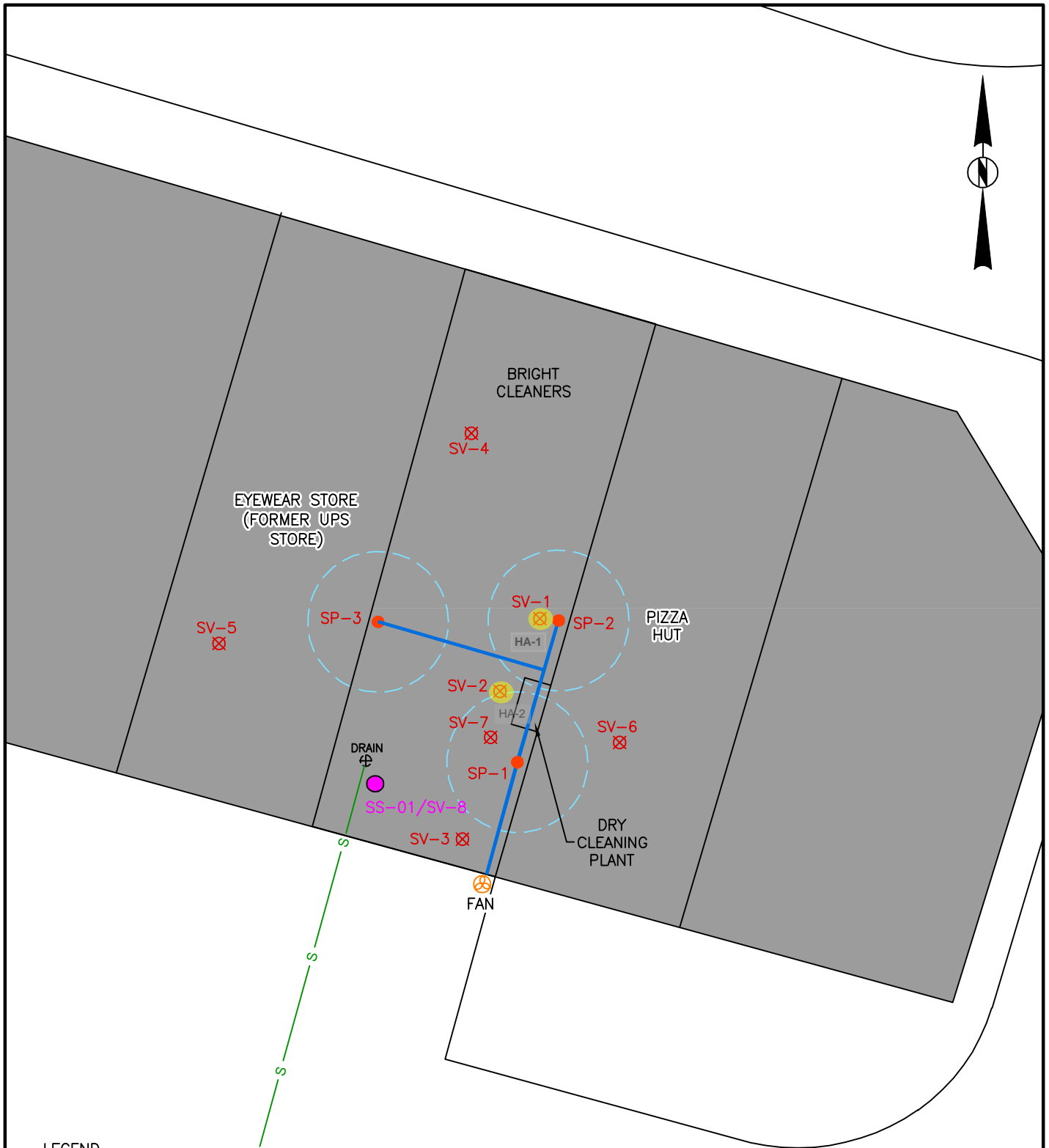
-  SOIL BORING/TEMPORARY WELL LOCATIONS
-  SUB-SLAB VAPOR PROBE LOCATIONS

CHECK BY	JB
DRAWN BY	OS
DATE	9-8-16
SCALE	AS SHOWN
CAD NO.	PECO_2016.78B
PRJ NO.	PECO_2016.78

SITE PLAN
 BRIGHT CLEANERS – FRANKLIN
 7249 SOUTH 76th STREET
 FRANKLIN, WISCONSIN

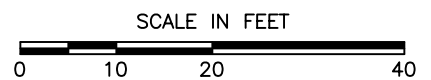


FIGURE
 2



LEGEND

- SUCTION POINT
- ⊗ SUB-SLAB VAPOR PROBE LOCATIONS
- Hand Auger Locations
- VAPOR AND SOIL SAMPLE LOCATION
- S— SEWER LINE



CHECK BY	SN
DRAWN BY	OS
DATE	2-8-21
SCALE	AS SHOWN
CAD NO.	PECO_2017.101A[3]
PRJ NO.	PECO_2017.101

SITE DETAIL SHOWING SAMPLE LOCATIONS
 BRIGHT CLEANERS – FRANKLIN CENTRE
 7249 SOUTH 76th STREET
 FRANKLIN, WISCONSIN



FIGURE

3

Table 1
Summary of Soil Data for
Volatile Organic Compounds (VOCs)
EPA Method 5035/8260B
Bright Cleaners - Franklin Centre
7249 South 76th Street, Franklin, Wisconsin
concentrations in milligrams per kilogram (mg/kg)

Boring Number	TW-1	TW-2	TW-3	Residual Contaminant Levels		
				Direct Contact		Soil to Groundwater
Sample Depth (feet bgs)	14	11	12	Non-Industrial	Industrial	
Date Collected	8/31/2016					
Acetone	0.029	< 0.0016	< 0.0018	63,400	100,000	1.8383
Benzene	0.0018	0.00044	0.00045	1.6	7.07	0.0026
Bromodichloromethane	< 0.00039	< 0.00028	< 0.00031	0.418	1.83	0.0002
Bromoforn	< 0.00039	< 0.00028	< 0.00031	25.4	113	0.0012
Bromomethane	< 0.00049	< 0.00035	< 0.00039	9.6	43	0.0025
2-Butanone	< 0.0015	< 0.0011	< 0.0012	28,400	28,400	0.833
Carbon disulfide	0.00019	0.00051	< 0.00015	738	738	0.2959
Carbon tetrachloride	< 0.00029	< 0.00021	< 0.00023	0.916	4.03	0.0019
Chlorobenzene	< 0.00019	< 0.00014	< 0.00015	370	761	0.0679
Chloroethane	< 0.00039	< 0.00028	< 0.00031	2,120	2,120	0.1133
Chloroform	< 0.00019	< 0.00014	< 0.00015	0.454	1.98	0.0017
Chloromethane	< 0.00029	< 0.00021	< 0.00023	159	669	0.0078
Dibromochloromethane	< 0.00039	< 0.00028	< 0.00031	8.28	38.9	0.016
1,1-Dichloroethane	< 0.00029	< 0.00021	< 0.00023	5.06	22.2	0.2417
1,2-Dichloroethane	< 0.00058	< 0.00042	< 0.00046	0.652	2.87	0.0014
1,1-Dichloroethene	< 0.00029	< 0.00021	< 0.00023	320	1,190	0.0025
cis-1,2-Dichloroethene	< 0.00029	< 0.00021	< 0.00023	156	2,340	0.0206
trans-1,2-Dichloroethene	< 0.00029	< 0.00021	< 0.00023	1,560	1,850	0.0313
1,2-Dichloropropane	< 0.00039	< 0.00028	< 0.00031	0.406	1.78	0.0017
cis-1,3-Dichloropropene	< 0.00019	< 0.00014	< 0.00015	1,210	1,210	0.0001
trans-1,3-Dichloropropene	< 0.00029	< 0.00021	< 0.00023	1,510	1,510	0.0001
Ethylbenzene	0.00026	< 0.00007	< 0.000077	8.02	35.4	0.785
2-Hexanone	< 0.00078	< 0.00056	< 0.00062	237	1,760	NE
4-Methyl-2-pentanone	< 0.00029	< 0.00021	< 0.00023	2,450	2,450	0.1126
Methylene Chloride	0.0019	< 0.00056	< 0.00062	61.8	1,150	0.0013
Methyl tertiary-butyl ether	< 0.00019	< 0.00014	< 0.00015	63.8	282	0.0135
Styrene	< 0.00019	< 0.00014	< 0.00015	867	867	0.11
1,1,2,2-Tetrachloroethane	< 0.00019	< 0.00014	< 0.00015	0.81	3.6	0.0000782
Tetrachloroethene	< 0.00029	< 0.00021	< 0.00023	33	145	0.0023
Toluene	0.0017	0.00046	0.00041	818	818	0.5536
1,1,1-Trichloroethane	< 0.00019	< 0.00014	< 0.00015	640	640	0.0701
1,1,2-Trichloroethane	< 0.00049	< 0.00035	< 0.00039	1.59	7.01	0.0016
Trichloroethene	< 0.00019	< 0.00014	< 0.00015	1.3	8.41	0.0018
Vinyl chloride	< 0.00039	< 0.00028	< 0.00031	0.067	2.08	0.000069
Xylenes (total)	< 0.00039	< 0.00028	< 0.00031	260	260	1.98

Table 1 continued
Summary of Soil Data for
Volatile Organic Compounds (VOCs)
EPA Method 5035/8260B
Bright Cleaners - Franklin Centre
7249 South 76th Street, Franklin, Wisconsin
concentrations in milligrams per kilogram (mg/kg)

Boring Number	MW-1	MW-2	B-1	HA-1	HA-2	HA-3	SS-01	Residual Contaminant Levels		
								Direct Contact		Soil to Groundwater
								Non-Industrial	Industrial	
Sample Depth (feet bgs)	4	6	2	2	2	2	2.5			
Date Collected	8/11/2017			8/6/2019			1/11/2021			
1,1,1-Trichloroethane	< 0.00018	< 0.00017	< 0.00015	<0.0025	<0.0025	<0.0025	NT	640	640	0.0701
1,1,2,2-Tetrachloroethane	< 0.00018	< 0.00017	< 0.00015	<0.0038	<0.0038	<0.0038	NT	0.81	3.6	0.0000782
1,1,2-Trichloroethane	< 0.00045	< 0.00043	< 0.00037	<0.0024	<0.0024	<0.0024	NT	1.59	7.01	0.0016
1,1-Dichloroethane	< 0.00027	< 0.00026	< 0.00022	<0.0031	<0.0031	<0.0031	NT	5.06	22.2	0.2417
1,1-Dichloroethene	< 0.00027	< 0.00026	< 0.00022	<0.0026	<0.0026	<0.0026	NT	320	1,190	0.0025
1,2-Dichloroethane	< 0.00054	< 0.00052	< 0.00045	<0.00031	<0.00031	<0.00031	NT	0.652	2.87	0.0014
1,2-Dichloropropane	< 0.00036	< 0.00035	< 0.0003	<0.002	<0.002	<0.002	NT	0.406	1.78	0.0017
2-Butanone	0.011	0.0040	0.0099	NT	NT	NT	NT	28,400	28,400	0.833
2-Hexanone	< 0.00072	< 0.00069	< 0.0006	NT	NT	NT	NT	237	1,760	NE
4-Methyl-2-pentanone	< 0.00027	< 0.00026	< 0.00022	NT	NT	NT	NT	2,450	2,450	0.1126
Acetone	0.075	0.025	0.064	NT	NT	NT	NT	63,400	100,000	1.8383
Benzene	0.0025	0.0021	0.0015	<0.0021	<0.0021	<0.0021	NT	1.6	7.07	0.0026
Bromodichloromethane	< 0.00036	< 0.00035	< 0.0003	<0.0019	<0.0019	<0.0019	NT	0.418	1.83	0.0002
Bromoform	< 0.00036	< 0.00035	< 0.0003	<0.0062	<0.0062	<0.0062	NT	25.4	113	0.0012
Bromomethane	< 0.00045	< 0.00043	< 0.00037	<0.0046	<0.0046	<0.0046	NT	9.6	43	0.0025
Carbon disulfide	< 0.00018	< 0.00017	< 0.00015	NT	NT	NT	NT	738	738	0.2959
Carbon tetrachloride	< 0.00027	< 0.00026	< 0.00022	<0.0024	<0.0024	<0.0024	NT	0.916	4.03	0.0019
Chlorobenzene	< 0.00018	< 0.00017	< 0.00015	<0.0022	<0.0022	<0.0022	NT	370	761	0.0679
Chloroethane	< 0.00036	< 0.00035	< 0.0003	<0.0028	<0.0028	<0.0028	NT	2,120	2,120	0.1133
Chloroform	< 0.00018	< 0.00017	< 0.00015	<0.0025	<0.0025	<0.0025	NT	0.454	1.98	0.0017
Chloromethane	< 0.00027	< 0.00026	< 0.00022	0.0044 J	0.0089 J	0.0084	NT	159	669	0.0078
cis-1,2-Dichloroethene	< 0.00027	< 0.00026	< 0.00022	<0.0032	<0.0032	<0.0032	<0.0116	156	2,340	0.0206
cis-1,3-Dichloropropene	< 0.00018	< 0.00017	< 0.00015	<0.0043	<0.0043	<0.0043	NT	1,210	1,210	0.0001
Dibromochloromethane	< 0.00036	< 0.00035	< 0.0003	<0.0019	<0.0019	<0.0019	NT	8.28	38.9	0.016
Ethylbenzene	0.0013	0.00088	0.0010	<0.0026	<0.0026	<0.0026	NT	8.02	35.4	0.785
Methyl tertiary-butyl ether	< 0.00018	< 0.00017	< 0.00015	NT	NT	NT	NT	63.8	282	0.0135
Methylene Chloride	0.0015	< 0.00069	< 0.0006	<0.0021	<0.0021	<0.0021	NT	61.8	1,150	0.0013
Styrene	< 0.00018	< 0.00017	< 0.00015	<0.0091	<0.0091	<0.0091	NT	867	867	0.11
Tetrachloroethene	< 0.00027	< 0.00026	0.00067	<0.0037	<0.0037	<0.0037	<0.0211	33	145	0.0023
Toluene	0.0044	0.0028	0.0028	<0.0023	<0.0023	<0.0023	NT	818	818	0.5536
trans-1,2-Dichloroethene	< 0.00027	< 0.00026	< 0.00022	<0.0023	<0.0023	<0.0023	<0.0117	1,560	1,850	0.0313
trans-1,3-Dichloropropene	< 0.00027	< 0.00026	< 0.00022	<0.0016	<0.0016	<0.0016	NT	1,510	1,510	0.0001
Trichloroethene	< 0.00018	< 0.00017	0.0010	<0.0023	<0.0023	<0.0023	<0.02	1.3	8.41	0.0018
Vinyl chloride	< 0.00036	< 0.00035	< 0.0003	<0.0037	<0.0037	<0.0037	<0.011	0.067	2.08	0.000069
Xylenes (total)	0.0025	0.0012	0.0014	<0.0048	<0.0048	<0.0048	NT	260	260	1.98

Notes:

bgs = feet below ground surface

TW-2 = Soil boring

< = Not Detected: Concentration less than the indicated laboratory detection limit

Detected compounds are shown as **bold**

Sample collected post-remediation

NT = Not Tested

NE = Remedial Objective not established

RCLs (Non-Industrial Direct-Contact) = Residual Contaminant Levels per the U.S. EPA's Regional Screening Level Web-Calculator (updated March 2017) in accordance with Wisconsin Administrative Code NR 720

RCLs (Industrial Direct-Contact) = Residual Contaminant Levels per the U.S. EPA's Regional Screening Level Web-Calculator (updated March 2017) in accordance with Wisconsin Administrative Code NR 720

RCLs (Soil to Groundwater) = Soil to Groundwater Residual Contaminant Levels per the U.S. EPA Regional Screening Level Web-Calculator (updated June 2016) in accordance with Wisconsin Administrative Code NR 720

Concentrations in excess of RCLs are shaded yellow

Exceeded RCLs are shaded green

Table 2
Summary of Groundwater Data for
Volatile Organic Compounds (VOCs)
EPA Method 8260B
Bright Cleaners - Franklin Centre
7249 South 76th Street, Franklin, Wisconsin
concentrations in milligrams per liter (µg/L)

Well Number	TW-1	TW-3	MW-1	Duplicate (MW-1)	Groundwater Quality Standards		Vapor Risk Screening
					Enforcement Standards	Preventative Action Limit	Commercial
Date Collected	8/31/2016		8/17/2017				
Acetone	< 3.1	12	< 3.1	< 3.1	9,000	1,800	95,000,000
Benzene	< 0.2	0.24	< 0.2	< 0.2	5	0.5	69
Bromodichloromethane	< 0.2	< 0.2	< 0.2	< 0.2	0.6	0.06	38
Bromoform	< 0.3	< 0.3	< 0.3	< 0.3	4.4	0.44	5,100
Bromomethane	< 2	< 2	< 2	< 2	10	1	73
2-Butanone	< 1.6	< 1.6	< 1.6	< 1.6	4,000	800	9,400,000
Carbon disulfide	< 0.3	0.34	< 0.3	< 0.3	1,000	200	5,200
Carbon tetrachloride	< 1	< 1	< 1	< 1	5	0.5	18
Chlorobenzene	< 0.2	< 0.2	< 0.2	< 0.2	100	20	1,700
Chloroethane	< 0.5	< 0.5	< 0.5	< 0.5	400	80	97,000
Chloroform	< 0.1	< 0.1	< 0.1	< 0.1	6	0.6	36
Chloromethane	< 0.3	< 0.3	< 0.3	< 0.3	30	3	1,100
Dibromochloromethane	< 0.2	< 0.2	< 0.2	< 0.2	60	6	NE
1,1-Dichloroethane	< 0.2	< 0.2	< 0.2	< 0.2	850	85	330
1,2-Dichloroethane	< 0.2	< 0.2	< 0.2	< 0.2	5	0.5	98
1,1-Dichloroethene	< 0.4	< 0.4	< 0.4	< 0.4	7	0.7	820
cis-1,2-Dichloroethene	< 0.2	< 0.2	< 0.2	< 0.2	70	7	NE
trans-1,2-Dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5	100	20	NE
1,2-Dichloropropane	< 0.1	< 0.1	< 0.1	< 0.1	5	0.5	150
cis-1,3-Dichloropropene	< 0.2	< 0.2	< 0.2	< 0.2	0.4	0.04	210
trans-1,3-Dichloropropene	< 0.1	< 0.1	< 0.1	< 0.1	0.4	0.04	210
Ethylbenzene	< 0.3	< 0.3	< 0.3	< 0.3	700	140	150
2-Hexanone	< 0.2	< 0.2	< 0.2	< 0.2	NE	NE	34,000
4-Methyl-2-pentanone	< 0.7	< 0.7	< 0.7	< 0.7	500	50	2,300,000
Methylene Chloride	< 0.2	< 0.2	< 0.2	< 0.2	5	0.5	20,000
Methyl tertiary-butyl ether	< 0.3	< 0.3	< 0.3	< 0.3	60	12	20,000
Styrene	< 0.3	< 0.3	< 0.3	< 0.3	100	10	39,000
1,1,2,2-Tetrachloroethane	< 0.1	< 0.1	< 0.1	< 0.1	0.2	0.02	140
Tetrachloroethene	< 0.3	< 0.3	< 0.3	< 0.3	5	0.5	240
Toluene	< 0.4	< 0.4	< 0.4	< 0.4	800	160	81,000
1,1,1-Trichloroethane	< 0.2	< 0.2	< 0.2	< 0.2	200	40	31,000
1,1,2-Trichloroethane	< 0.1	< 0.1	< 0.1	< 0.1	5	0.5	26
Trichloroethene	< 0.3	< 0.3	< 0.3	< 0.3	5	0.5	22
Vinyl chloride	< 0.3	< 0.3	< 0.3	< 0.3	0.2	0.02	25
Xylenes (total)	< 1	< 1	< 1	< 1	2,000	400	1,600

Table 2 continued
Summary of Groundwater Data for
Volatile Organic Compounds (VOCs)
EPA Method 8260B
Bright Cleaners - Franklin Centre
7249 South 76th Street, Franklin, Wisconsin
concentrations in milligrams per liter (µg/L)

Well Number	MW-2	MW-3	Trip Blank	Groundwater Quality Standards		Vapor Risk Screening
				Enforcement Standards	Preventative Action Limit	Commercial
Date Collected	8/17/2017					
Acetone	< 3.1	< 3.1	< 3.1	9,000	1,800	95,000,000
Benzene	< 0.2	< 0.2	< 0.2	5	0.5	69
Bromodichloromethane	< 0.2	< 0.2	< 0.2	0.6	0.06	38
Bromoform	< 0.3	< 0.3	< 0.3	4.4	0.44	5,100
Bromomethane	< 2	< 2	< 2	10	1	73
2-Butanone	< 1.6	< 1.6	< 1.6	4,000	800	9,400,000
Carbon disulfide	< 0.3	< 0.3	< 0.3	1,000	200	5,200
Carbon tetrachloride	< 1	< 1	< 1	5	0.5	18
Chlorobenzene	< 0.2	< 0.2	< 0.2	100	20	1,700
Chloroethane	< 0.5	< 0.5	< 0.5	400	80	97,000
Chloroform	< 0.1	< 0.1	< 0.1	6	0.6	36
Chloromethane	< 0.3	< 0.3	< 0.3	30	3	1,100
Dibromochloromethane	< 0.2	< 0.2	< 0.2	60	6	NE
1,1-Dichloroethane	< 0.2	< 0.2	< 0.2	850	85	330
1,2-Dichloroethane	< 0.2	< 0.2	< 0.2	5	0.5	98
1,1-Dichloroethene	< 0.4	< 0.4	< 0.4	7	0.7	820
cis-1,2-Dichloroethene	< 0.2	< 0.2	< 0.2	70	7	NE
trans-1,2-Dichloroethene	< 0.5	< 0.5	< 0.5	100	20	NE
1,2-Dichloropropane	< 0.1	< 0.1	< 0.1	5	0.5	150
cis-1,3-Dichloropropene	< 0.2	< 0.2	< 0.2	0.4	0.04	210
trans-1,3-Dichloropropene	< 0.1	< 0.1	< 0.1	0.4	0.04	210
Ethylbenzene	< 0.3	< 0.3	< 0.3	700	140	150
2-Hexanone	< 0.2	< 0.2	< 0.2	NE	NE	34,000
4-Methyl-2-pentanone	< 0.7	< 0.7	< 0.7	500	50	2,300,000
Methylene Chloride	< 0.2	< 0.2	< 0.2	5	0.5	20,000
Methyl tertiary-butyl ether	< 0.3	< 0.3	< 0.3	60	12	20,000
Styrene	< 0.3	< 0.3	< 0.3	100	10	39,000
1,1,2,2-Tetrachloroethane	< 0.1	< 0.1	< 0.1	0.2	0.02	140
Tetrachloroethene	< 0.3	< 0.3	< 0.3	5	0.5	240
Toluene	< 0.4	< 0.4	< 0.4	800	160	81,000
1,1,1-Trichloroethane	< 0.2	< 0.2	< 0.2	200	40	31,000
1,1,2-Trichloroethane	< 0.1	< 0.1	< 0.1	5	0.5	26
Trichloroethene	< 0.3	< 0.3	< 0.3	5	0.5	22
Vinyl chloride	< 0.3	< 0.3	< 0.3	0.2	0.02	25
Xylenes (total)	< 1	< 1	< 1	2,000	400	1,600

Table 2
Summary of Groundwater Data for
Volatile Organic Compounds (VOCs)
EPA Method 8260B
Bright Cleaners - Franklin Centre
7249 South 76th Street, Franklin, Wisconsin
concentrations in milligrams per liter (µg/L)

Well Number	MW-1	MW-2	MW-3	Trip Blank	Groundwater Quality Standards		Vapor Risk Screening
					Enforcement Standards	Preventative Action Limit	Commercial
Date Collected	12/22/2021						
cis-1,2-Dichloroethene	< 0.27	< 0.27	< 0.27	< 0.27	70	7	NE
trans-1,2-Dichloroethene	< 0.46	< 0.46	< 0.46	< 0.46	100	20	NE
Tetrachloroethene	< 0.33	< 0.33	< 0.33	< 0.33	5	0.5	240
Trichloroethene	< 0.26	< 0.26	< 0.26	< 0.26	5	0.5	22
Vinyl chloride	< 0.17	< 0.17	< 0.17	< 0.17	0.2	0.02	25

Notes:

 Sample collected post-remediation

TW-3 = Temporary monitoring well

< = Not Detected: Concentration less than the indicated laboratory detection limit.

Detected concentrations are shown in **bold**.

NE = Remedial Objective not established.

Groundwater Quality Standards cited in Wisconsin Administrative Code NR 140.10 Table 1

Vapor Risk Screening Levels for groundwater with a commercial property use based on the U.S. EPA Vapor Intrusion Screening Level Calculator (Version 3.5.2, October 2017) with an excess lifetime cancer risk of 1×10^{-5} in accordance with Wisconsin Administrative Code NR 716

 Concentrations in excess of GQs and/or VRSLs are shaded yellow (none detected)

 Exceeded GQs and/or VRSLs are shaded green

Table 3
Summary of Soil Gas Data for
Volatile Organic Compounds (VOCs)
EPA Method TO-15
Bright Cleaners - Franklin Centre
7249 South 76th Street, Franklin, Wisconsin
concentrations in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)

Sub-slab Sample Number	SV-1	SV-2	SV-3	SV-4	SV-5	SV-6	SV-7	SV-7	Sub-Slab Vapor Action Levels	Sub-Slab Vapor Action Levels
Date Collected	8/31/2016			8/14/2017			12/19/2018	6/28/2019	Residential	
Acetone	82	140	100	16	14	5.3	49.2	27.7	1,100,000	4,500,000
Benzene	2.9	1.4	3.4	0.26	0.26	0.12	3.1	0.62	120	520
Benzyl chloride	< 2.4	< 1.9	< 2.6	< 1.3	< 1.3	< 0.59	< 1.9	< 1.8	19	83
Bromodichloromethane	< 0.21	< 0.17	< 0.23	< 0.28	< 0.28	< 0.13	< 0.57	< 0.56	25	110
Bromoform	< 0.25	< 0.2	< 0.28	< 0.41	< 0.41	< 0.19	< 2.2	< 2.2	850	3,700
Bromomethane	0.54	0.50	0.79	0.47	< 0.37	0.22	< 0.35	< 0.35	170	730
1,3-Butadiene	< 0.13	< 0.11	< 0.14	< 0.42	< 0.42	< 0.19	< 0.20	< 0.19	31	140
2-Butanone	6.7	7.7	12	1.7	< 0.99	0.72	8.3	4.8	170,000	730,000
Carbon disulfide	0.50	< 0.29	0.48	< 0.26	< 0.26	< 0.12	< 0.34	0.68	24,000	100,000
Carbon tetrachloride	< 0.41	< 0.33	< 0.45	< 1.2	< 1.1	< 0.53	0.68	< 0.65	4.7	680
Chlorobenzene	< 0.13	< 0.11	< 0.14	< 0.94	< 3.7	< 0.43	< 0.43	< 0.42	1,700	7,300
Chloroethane	< 1.2	< 0.98	< 1.3	< 0.44	< 0.43	< 0.2	< 0.40	< 0.40	350,000	1,500,000
Chloroform	0.22	0.36	0.62	< 0.22	< 0.22	0.37	< 0.30	< 0.30	41	180
Chloromethane	< 0.24	< 0.19	< 2.6	< 0.95	< 0.95	< 0.44	< 0.24	< 0.24	3,100	13,000
Cyclohexane	2.5	1.3	4.6	< 0.6	< 0.59	< 0.27	< 0.55	< 0.54	210,000	880,000
Dibromochloromethane	< 0.32	< 0.25	< 0.35	< 0.43	< 0.43	< 0.2	< 1.1	< 1.1	NE	NE
1,2-Dibromoethane	< 0.4	< 0.32	< 0.44	< 0.68	< 0.68	< 0.31	< 0.57	< 0.56	1.6	6.8
1,1-Dichloroethane	< 0.09	< 0.073	< 0.1	< 0.14	< 0.14	< 0.066	< 0.35	< 0.34	580	2,600
1,2-Dichlorobenzene	0.42	< 0.19	< 0.26	< 0.39	< 0.39	< 0.18	< 0.77	< 0.76	7,000	29,000
1,3-Dichlorobenzene	1.9	1.1	4.9	< 0.37	< 0.36	< 0.17	< 0.94	< 0.88	NE	NE
1,4-Dichlorobenzene	< 0.29	< 0.24	< 0.32	< 0.42	< 0.42	< 0.19	< 1.6	< 1.5	85	370
Dichlorodifluoromethane	2.3	2.3	2.1	2.0	2.0	2.2	2.9	2.2	3,500	15,000
1,2-Dichloroethane	< 0.21	< 0.17	< 0.23	< 0.38	< 0.68	< 0.18	< 0.23	< 0.23	36	160
1,1-Dichloroethene	< 0.12	< 0.093	< 0.13	< 0.2	< 0.2	< 0.094	< 0.42	< 0.42	7,000	29,000
cis-1,2-Dichloroethene	1.7	1.8	3.2	< 0.63	< 0.62	< 0.29	< 0.34	0.78	NE	NE
trans-1,2-Dichloroethene	< 0.13	0.15	< 0.14	< 0.22	< 0.22	< 0.1	< 0.44	< 0.67	NE	NE
1,2-Dichloropropane	< 0.15	< 0.12	< 0.16	< 0.7	< 0.69	< 0.32	< 0.36	< 0.35	94	580
cis-1,3-Dichloropropene	< 0.25	< 0.2	< 0.27	< 0.44	< 0.44	< 0.2	< 0.47	< 0.46	230	1,000
trans-1,3-Dichloropropene	< 0.28	< 0.23	< 0.32	< 3.7	< 3.7	< 1.7	< 0.68	< 0.67	230	1,000
1,4-Dioxane	< 0.48	2.7	2.4	< 1.2	< 1.1	< 0.54	NT	NT	190	820
Ethyl acetate	< 0.33	< 0.27	< 0.37	< 1	< 1	< 0.48	< 0.29	3.3	2,400	10,000
Ethylbenzene	3.9	2.8	6.1	< 0.26	< 0.26	< 0.12	3.1	0.91	370	1,600
4-Ethyltoluene	1.4	0.91	1.6	< 0.42	< 0.42	< 0.19	1.7	2.7	NE	NE
Freon-113	< 0.13	0.57	0.59	0.31	0.62	0.57	< 0.87	< 0.86	1,000,000	730,000
Freon-114	< 0.46	< 0.37	< 0.51	< 0.29	< 0.29	< 0.13	< 0.68	< 0.66	NE	NE
Heptane	5.5	2.7	13	< 0.28	< 0.28	< 0.13	3.6	< 0.58	NE	NE
Hexachlorobutadiene	0.74	< 0.45	< 0.61	< 0.9	< 0.9	< 0.41	< 3.1	< 0.58	43	190
Hexane	6.4	2.7	11	< 0.5	< 0.5	< 0.23	3.7	4	24,000	100,000
2-Hexanone	3.1	2.9	4.9	< 2.1	< 2.1	< 0.97	< 1.2	< 1.1	1,000	4,400
Isopropyl alcohol	310	110	65	50	36	0.64	70	63	7,000	29,000
4-Methyl-2-pentanone	12	6.1	9.4	< 1.1	< 1.1	< 0.52	2.1	< 0.79	100,000	440,000
Methylene Chloride	0.96	< 0.69	< 0.95	4.0	3.8	2.0	3.3	21.9	21,000	88,000
Methyl tertiary-butyl ether	0.25	0.33	0.28	< 0.17	< 0.17	< 0.076	< 1.0	< 1.0	3,600	16,000
Naphthalene	2.8	1.8	4.1	< 1.2	< 1.1	0.59	5.6	< 2.0	28	120
Propene	6.3	3.6	5.5	0.42	< 0.39	0.23	< 0.22	< 0.22	100,000	440,000
Styrene	0.78	0.32	0.54	< 0.82	< 0.81	< 0.38	< 0.53	4	35,000	150,000
1,1,2,2-Tetrachloroethane	< 0.22	< 0.18	< 0.24	< 0.38	< 0.38	< 0.18	< 0.45	< 0.44	16	70
Tetrachloroethene	12,000	44,000	1,900	2,400	520	26	67	1,290	1,400	5,800
Tetrahydrofuran	8.4	4.1	5.6	< 1.1	< 1.1	< 0.52	< 0.40	< 0.40	70,000	290,000
Toluene	81	46	47	< 0.35	< 0.34	< 0.16	18.5	5	170,000	730,000
1,2,4-Trichlorobenzene	1.9	0.96	1.1	< 1.1	< 1.1	< 0.53	< 5.8	< 5.7	70	290
1,1,1-Trichloroethane	< 0.13	< 0.11	< 0.14	< 0.21	0.88	< 0.098	< 0.48	< 0.47	170,000	730,000
1,1,2-Trichloroethane	< 0.24	< 0.19	< 0.26	< 0.56	< 0.56	< 0.26	< 0.39	< 0.38	7.0	29
Trichloroethene	22	41	26	12	26	< 0.15	1.7	18.9	70	290
Trichlorofluoromethane	1.6	1.6	1.3	1.4	1.8	1.4	1.4	1.3	NE	NE
1,2,4-Trimethylbenzene	5.1	3.9	7.5	0.40	< 0.22	0.37	4.3	7	240	8,800
1,3,5-Trimethylbenzene	1.4	0.91	2.0	< 0.28	< 0.27	< 0.13	1.7	2.6	NE	NE
Vinyl acetate	< 0.22	< 0.18	< 0.24	< 1.1	< 1.1	< 0.53	< 0.42	< 0.41	7,000	29,000
Vinyl chloride	< 0.099	< 0.08	< 0.11	< 0.18	< 0.17	< 0.081	< 0.20	< 0.19	56	930
m,p-Xylene	8.8	6.0	12	< 0.44	< 0.44	0.24	12.3	3.2	3,500	15,000
o-Xylene	3.6	2.4	4.8	< 0.23	< 0.22	0.16	4.3	1.4	3,500	15,000
Xylenes (total)	12	8.5	17	< 0.65	< 0.65	0.41	16.6	4.6	3,500	15,000

Table 3 continued
Summary of Soil Gas Data for
Volatile Organic Compounds (VOCs)
EPA Method TO-15
Bright Cleaners - Franklin Centre
7249 South 76th Street, Franklin, Wisconsin
 concentrations in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)

Sub-slab Sample Number	SV-1	SV-4	SV-5	SV-6	SV-7	SV-8	Sub-Slab Vapor Action Levels	Sub-Slab Vapor Action Levels
Date Collected	1/11/2021						Residential	
cis-1,2-Dichloroethene	<0.22	<0.22	0.93	<0.2	<0.22	<0.22	NE	NE
trans-1,2-Dichloroethene	<0.21	<0.21	<0.2	<0.19	<0.21	<0.21	NE	NE
Tetrachloroethene	<0.49	254	128	0.46	<0.49	61.6	1,400	5,800
Trichloroethene	<0.25	0.64	12.1	<0.23	<0.25	<0.25	70	290
Vinyl chloride	<0.085	<0.085	<0.079	<0.076	<0.085	<0.083	56	930

Notes:

Samples collected post-remediation

SV-2 = Sub-slab vapor sample

< = Not Detected: Concentration less than the indicated laboratory detection limit.

Detected concentrations are shown in **bold**.

NE = Remedial Objective not established.

Sub-Slab Vapor Action Levels for a commercial property use based on the U.S. EPA Vapor Intrusion Screening Level Calculator (Version 3.5.2, October 2017) with an excess lifetime cancer risk of 1×10^{-5} in accordance with Wisconsin Administrative Code NR 716

Concentrations in excess of Remedial Objectives are shaded yellow
 Exceeded Remedial Objectives are shaded green

Table 4

Indoor Air Data for
 Volatile Organic Compounds (VOCs)
 EPA Method TO-15
 Bright Cleaners - Franklin Centre
 7249 South 76th Street, Franklin, Wisconsin
 concentrations in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)

Air Sample Number	IA-1 (Indoor)	AA-01-Indoor	AA-02-Outdoor	Carcinogenic SL TR=1E-06 ($\mu\text{g}/\text{m}^3$)	Noncarcinogenic SL TH=1 (μg or fibers/ m^3)
Date Collected	6/28/2019	1/11/2021	1/11/2021		
Acetone	32	NT	NT	NE	1.4E+05
Benzene	0.29	NT	NT	1.6E+00	1.3E+02
2-Butanone	3.8	NT	NT	NE	NE
Chloroform	0.87	NT	NT	5.3E-01	4.3E+02
Dichlorodifluoromethane	2.3	NT	NT	NE	4.4E+02
cis-1,2-Dichloroethene	NT	<0.22	<0.21	NE	NE
trans-1,2-Dichloroethene	NT	<0.21	<0.2	NE	NE
Ethanol	16700	NT	NT	NE	NE
Ethyl acetate	10.2	NT	NT	NE	3.1E+02
Methylene Chloride	13.8	NT	NT	1.2E+03	2.6E+03
2-Propanol	625	NT	NT	NE	NE
Tetrachloroethene	5.7	<0.49	<0.46	47	180
Toluene	1.4	NT	NT	NE	2.2E+04
Trichlorofluoromethane	1.2	NT	NT	NE	NE
Trichloroethene	<0.38	<0.25	<0.24	3	8.8
Vinyl chloride	<0.19	<0.085	<0.08	2.8	440
m&p-Xylene	2.3	NT	NT	NE	4.4E+02
o-Xylene	0.75	NT	NT	NE	4.4E+02

Notes:

< = Not Detected: Concentration less than the indicated laboratory detection limit.

Detected concentrations are shown in **bold**.

NE = Remedial Objective not established.

Concentrations in excess of Remediation Objectives are shaded yellow

Exceeded Remedial Objectives are shaded green

APPENDIX A

Laboratory Reports

December 31, 2018

Steve Newlin
Apex Companies
300 S. Wacker
Chicago, IL 60606

RE: Project: PECO_2017-100
Pace Project No.: 10459695

Dear Steve Newlin:

Enclosed are the analytical results for sample(s) received by the laboratory on December 21, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Carolynne Trout
carolynne.trout@pacelabs.com
1(612)607-6351
Project Manager

Enclosures

cc: Rose Grenen, Apex Companies, LLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: PECO_2017-100

Pace Project No.: 10459695

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605

Georgia Certification #: 959

Guam EPA Certification #: MN00064

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: 03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Massachusetts Certification #: M-MN064

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240

Mississippi Certification #: MN00064

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon NwTPH Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #:74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DW Certification #: 9952 C

West Virginia DEP Certification #: 382

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: PECO_2017-100

Pace Project No.: 10459695

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10459695001	SV-2	Air	12/19/18 12:02	12/21/18 09:35
10459695002	SV-1	Air	12/19/18 12:20	12/21/18 09:35
10459695003	SV-7	Air	12/19/18 12:58	12/21/18 09:35

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SAMPLE ANALYTE COUNT

Project: PECO_2017-100

Pace Project No.: 10459695

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10459695001	SV-2	TO-15	MG2	61
10459695002	SV-1	TO-15	MG2	61
10459695003	SV-7	TO-15	MG2	61

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PECO_2017-100

Pace Project No.: 10459695

Sample: SV-2 **Lab ID: 10459695001** Collected: 12/19/18 12:02 Received: 12/21/18 09:35 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Dichlorodifluoromethane	2.6	ug/m3	1.7	0.48	1.64		12/26/18 17:32	75-71-8	
Chloromethane	<0.26	ug/m3	0.69	0.26	1.64		12/26/18 17:32	74-87-3	
Dichlorotetrafluoroethane	<0.72	ug/m3	2.3	0.72	1.64		12/26/18 17:32	76-14-2	
Vinyl chloride	<0.21	ug/m3	0.43	0.21	1.64		12/26/18 17:32	75-01-4	
Bromomethane	<0.37	ug/m3	1.3	0.37	1.64		12/26/18 17:32	74-83-9	
Chloroethane	<0.43	ug/m3	0.88	0.43	1.64		12/26/18 17:32	75-00-3	
Trichlorofluoromethane	1.5J	ug/m3	1.9	0.60	1.64		12/26/18 17:32	75-69-4	
1,1-Dichloroethene	<0.45	ug/m3	1.3	0.45	1.64		12/26/18 17:32	75-35-4	
1,1,2-Trichlorotrifluoroethane	<0.92	ug/m3	2.6	0.92	1.64		12/26/18 17:32	76-13-1	
Methylene Chloride	4.1J	ug/m3	5.8	1.5	1.64		12/26/18 17:32	75-09-2	
1,1-Dichloroethane	<0.37	ug/m3	1.3	0.37	1.64		12/26/18 17:32	75-34-3	
cis-1,2-Dichloroethene	<0.36	ug/m3	1.3	0.36	1.64		12/26/18 17:32	156-59-2	
Chloroform	<0.32	ug/m3	0.81	0.32	1.64		12/26/18 17:32	67-66-3	
1,1,1-Trichloroethane	<0.51	ug/m3	1.8	0.51	1.64		12/26/18 17:32	71-55-6	
1,1,2-Trichloroethane	<0.41	ug/m3	0.91	0.41	1.64		12/26/18 17:32	79-00-5	
1,2-Dichloroethane	<0.25	ug/m3	0.67	0.25	1.64		12/26/18 17:32	107-06-2	
Benzene	2.0	ug/m3	0.53	0.25	1.64		12/26/18 17:32	71-43-2	
Carbon tetrachloride	<0.70	ug/m3	2.1	0.70	1.64		12/26/18 17:32	56-23-5	
1,2-Dichloropropane	<0.38	ug/m3	1.5	0.38	1.64		12/26/18 17:32	78-87-5	
Trichloroethene	2.7	ug/m3	0.90	0.42	1.64		12/26/18 17:32	79-01-6	
cis-1,3-Dichloropropene	<0.50	ug/m3	1.5	0.50	1.64		12/26/18 17:32	10061-01-5	
trans-1,3-Dichloropropene	<0.72	ug/m3	1.5	0.72	1.64		12/26/18 17:32	10061-02-6	
Toluene	16.5	ug/m3	1.3	0.58	1.64		12/26/18 17:32	108-88-3	
1,2-Dibromoethane (EDB)	<0.60	ug/m3	1.3	0.60	1.64		12/26/18 17:32	106-93-4	
Tetrachloroethene	595	ug/m3	33.9	15.4	49.2		12/27/18 14:47	127-18-4	
Chlorobenzene	<0.45	ug/m3	1.5	0.45	1.64		12/26/18 17:32	108-90-7	
Ethylbenzene	3.9	ug/m3	1.4	0.50	1.64		12/26/18 17:32	100-41-4	
m&p-Xylene	15.4	ug/m3	2.9	1.1	1.64		12/26/18 17:32	179601-23-1	
o-Xylene	5.9	ug/m3	1.4	0.56	1.64		12/26/18 17:32	95-47-6	
Styrene	0.62J	ug/m3	1.4	0.56	1.64		12/26/18 17:32	100-42-5	
1,1,2,2-Tetrachloroethane	<0.48	ug/m3	1.1	0.48	1.64		12/26/18 17:32	79-34-5	
1,3,5-Trimethylbenzene	2.7	ug/m3	1.6	0.65	1.64		12/26/18 17:32	108-67-8	
1,2,4-Trimethylbenzene	9.0	ug/m3	1.6	0.74	1.64		12/26/18 17:32	95-63-6	
1,3-Dichlorobenzene	1.3J	ug/m3	2.0	0.95	1.64		12/26/18 17:32	541-73-1	
1,4-Dichlorobenzene	<1.6	ug/m3	5.0	1.6	1.64		12/26/18 17:32	106-46-7	
1,2-Dichlorobenzene	<0.82	ug/m3	2.0	0.82	1.64		12/26/18 17:32	95-50-1	
1,2,4-Trichlorobenzene	<6.1	ug/m3	12.4	6.1	1.64		12/26/18 17:32	120-82-1	
Hexachloro-1,3-butadiene	<3.2	ug/m3	8.9	3.2	1.64		12/26/18 17:32	87-68-3	
Tetrahydrofuran	<0.43	ug/m3	0.98	0.43	1.64		12/26/18 17:32	109-99-9	
Acetone	29.6	ug/m3	4.0	2.0	1.64		12/26/18 17:32	67-64-1	
2-Butanone (MEK)	5.4	ug/m3	4.9	0.61	1.64		12/26/18 17:32	78-93-3	
n-Hexane	2.0	ug/m3	1.2	0.51	1.64		12/26/18 17:32	110-54-3	
Methyl-tert-butyl ether	<1.1	ug/m3	6.0	1.1	1.64		12/26/18 17:32	1634-04-4	
Dibromochloromethane	<1.2	ug/m3	2.8	1.2	1.64		12/26/18 17:32	124-48-1	
1,3-Butadiene	<0.21	ug/m3	0.74	0.21	1.64		12/26/18 17:32	106-99-0	
Carbon disulfide	<0.36	ug/m3	1.0	0.36	1.64		12/26/18 17:32	75-15-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PECO_2017-100

Pace Project No.: 10459695

Sample: SV-2 **Lab ID: 10459695001** Collected: 12/19/18 12:02 Received: 12/21/18 09:35 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Vinyl acetate	<0.44	ug/m3	1.2	0.44	1.64		12/26/18 17:32	108-05-4	
Cyclohexane	<0.58	ug/m3	2.9	0.58	1.64		12/26/18 17:32	110-82-7	
Ethyl acetate	<0.31	ug/m3	1.2	0.31	1.64		12/26/18 17:32	141-78-6	
4-Methyl-2-pentanone (MIBK)	3.5J	ug/m3	6.8	0.85	1.64		12/26/18 17:32	108-10-1	
2-Hexanone	<1.2	ug/m3	6.8	1.2	1.64		12/26/18 17:32	591-78-6	
Bromoform	<2.3	ug/m3	8.6	2.3	1.64		12/26/18 17:32	75-25-2	
trans-1,2-Dichloroethene	<0.47	ug/m3	1.3	0.47	1.64		12/26/18 17:32	156-60-5	
Bromodichloromethane	<0.60	ug/m3	2.2	0.60	1.64		12/26/18 17:32	75-27-4	
n-Heptane	2.4	ug/m3	1.4	0.62	1.64		12/26/18 17:32	142-82-5	
Propylene	<0.23	ug/m3	0.57	0.23	1.64		12/26/18 17:32	115-07-1	
4-Ethyltoluene	2.8J	ug/m3	4.1	0.93	1.64		12/26/18 17:32	622-96-8	
Naphthalene	5.0	ug/m3	4.4	2.2	1.64		12/26/18 17:32	91-20-3	
Ethanol	572	ug/m3	94.5	40.0	49.2		12/27/18 14:47	64-17-5	
2-Propanol	23.9	ug/m3	4.1	1.1	1.64		12/26/18 17:32	67-63-0	
Benzyl chloride	<2.0	ug/m3	4.3	2.0	1.64		12/26/18 17:32	100-44-7	

Sample: SV-1 **Lab ID: 10459695002** Collected: 12/19/18 12:20 Received: 12/21/18 09:35 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Acetone	24.0	ug/m3	3.9	1.9	1.61		12/26/18 18:30	67-64-1	
Benzene	0.65	ug/m3	0.52	0.25	1.61		12/26/18 18:30	71-43-2	
Benzyl chloride	<1.9	ug/m3	4.2	1.9	1.61		12/26/18 18:30	100-44-7	
Bromodichloromethane	<0.59	ug/m3	2.2	0.59	1.61		12/26/18 18:30	75-27-4	
Bromoform	<2.3	ug/m3	8.5	2.3	1.61		12/26/18 18:30	75-25-2	
Bromomethane	<0.37	ug/m3	1.3	0.37	1.61		12/26/18 18:30	74-83-9	
1,3-Butadiene	<0.21	ug/m3	0.72	0.21	1.61		12/26/18 18:30	106-99-0	
2-Butanone (MEK)	4.4J	ug/m3	4.8	0.59	1.61		12/26/18 18:30	78-93-3	
Carbon disulfide	<0.35	ug/m3	1.0	0.35	1.61		12/26/18 18:30	75-15-0	
Carbon tetrachloride	<0.69	ug/m3	2.1	0.69	1.61		12/26/18 18:30	56-23-5	
Chlorobenzene	<0.44	ug/m3	1.5	0.44	1.61		12/26/18 18:30	108-90-7	
Chloroethane	<0.42	ug/m3	0.86	0.42	1.61		12/26/18 18:30	75-00-3	
Chloroform	0.70J	ug/m3	0.80	0.32	1.61		12/26/18 18:30	67-66-3	
Chloromethane	1.1	ug/m3	0.68	0.25	1.61		12/26/18 18:30	74-87-3	
Cyclohexane	<0.57	ug/m3	2.8	0.57	1.61		12/26/18 18:30	110-82-7	
Dibromochloromethane	<1.2	ug/m3	2.8	1.2	1.61		12/26/18 18:30	124-48-1	
1,2-Dibromoethane (EDB)	<0.59	ug/m3	1.3	0.59	1.61		12/26/18 18:30	106-93-4	
1,2-Dichlorobenzene	<0.80	ug/m3	2.0	0.80	1.61		12/26/18 18:30	95-50-1	
1,3-Dichlorobenzene	<0.94	ug/m3	2.0	0.94	1.61		12/26/18 18:30	541-73-1	
1,4-Dichlorobenzene	<1.6	ug/m3	4.9	1.6	1.61		12/26/18 18:30	106-46-7	
Dichlorodifluoromethane	2.6	ug/m3	1.6	0.47	1.61		12/26/18 18:30	75-71-8	
1,1-Dichloroethane	<0.36	ug/m3	1.3	0.36	1.61		12/26/18 18:30	75-34-3	
1,2-Dichloroethane	<0.24	ug/m3	0.66	0.24	1.61		12/26/18 18:30	107-06-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PECO_2017-100

Pace Project No.: 10459695

Sample: SV-1 **Lab ID: 10459695002** Collected: 12/19/18 12:20 Received: 12/21/18 09:35 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
1,1-Dichloroethene	<0.44	ug/m3	1.3	0.44	1.61		12/26/18 18:30	75-35-4	
cis-1,2-Dichloroethene	<0.35	ug/m3	1.3	0.35	1.61		12/26/18 18:30	156-59-2	
trans-1,2-Dichloroethene	<0.46	ug/m3	1.3	0.46	1.61		12/26/18 18:30	156-60-5	
1,2-Dichloropropane	<0.37	ug/m3	1.5	0.37	1.61		12/26/18 18:30	78-87-5	
cis-1,3-Dichloropropene	<0.49	ug/m3	1.5	0.49	1.61		12/26/18 18:30	10061-01-5	
trans-1,3-Dichloropropene	<0.71	ug/m3	1.5	0.71	1.61		12/26/18 18:30	10061-02-6	
Dichlorotetrafluoroethane	<0.70	ug/m3	2.3	0.70	1.61		12/26/18 18:30	76-14-2	
Ethanol	13300	ug/m3	495	209	257.6		12/27/18 15:40	64-17-5	
Ethyl acetate	9.2	ug/m3	1.2	0.31	1.61		12/26/18 18:30	141-78-6	
Ethylbenzene	<0.49	ug/m3	1.4	0.49	1.61		12/26/18 18:30	100-41-4	
4-Ethyltoluene	<0.92	ug/m3	4.0	0.92	1.61		12/26/18 18:30	622-96-8	
n-Heptane	<0.61	ug/m3	1.3	0.61	1.61		12/26/18 18:30	142-82-5	
Hexachloro-1,3-butadiene	<3.2	ug/m3	8.7	3.2	1.61		12/26/18 18:30	87-68-3	
n-Hexane	1.3	ug/m3	1.2	0.50	1.61		12/26/18 18:30	110-54-3	
2-Hexanone	<1.2	ug/m3	6.7	1.2	1.61		12/26/18 18:30	591-78-6	
Methylene Chloride	5.1J	ug/m3	5.7	1.5	1.61		12/26/18 18:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.83	ug/m3	6.7	0.83	1.61		12/26/18 18:30	108-10-1	
Methyl-tert-butyl ether	<1.1	ug/m3	5.9	1.1	1.61		12/26/18 18:30	1634-04-4	
Naphthalene	<2.1	ug/m3	4.3	2.1	1.61		12/26/18 18:30	91-20-3	
2-Propanol	342	ug/m3	4.0	1.1	1.61		12/26/18 18:30	67-63-0	
Propylene	<0.23	ug/m3	0.56	0.23	1.61		12/26/18 18:30	115-07-1	
Styrene	<0.55	ug/m3	1.4	0.55	1.61		12/26/18 18:30	100-42-5	
1,1,2,2-Tetrachloroethane	<0.47	ug/m3	1.1	0.47	1.61		12/26/18 18:30	79-34-5	
Tetrachloroethene	7.2	ug/m3	1.1	0.51	1.61		12/26/18 18:30	127-18-4	
Tetrahydrofuran	<0.42	ug/m3	0.97	0.42	1.61		12/26/18 18:30	109-99-9	
Toluene	1.7	ug/m3	1.2	0.57	1.61		12/26/18 18:30	108-88-3	
1,2,4-Trichlorobenzene	<6.0	ug/m3	12.1	6.0	1.61		12/26/18 18:30	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/m3	1.8	0.50	1.61		12/26/18 18:30	71-55-6	
1,1,2-Trichloroethane	<0.40	ug/m3	0.89	0.40	1.61		12/26/18 18:30	79-00-5	
Trichloroethene	<0.41	ug/m3	0.88	0.41	1.61		12/26/18 18:30	79-01-6	
Trichlorofluoromethane	1.4J	ug/m3	1.8	0.59	1.61		12/26/18 18:30	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.91	ug/m3	2.5	0.91	1.61		12/26/18 18:30	76-13-1	
1,2,4-Trimethylbenzene	<0.73	ug/m3	1.6	0.73	1.61		12/26/18 18:30	95-63-6	
1,3,5-Trimethylbenzene	<0.64	ug/m3	1.6	0.64	1.61		12/26/18 18:30	108-67-8	
Vinyl acetate	<0.43	ug/m3	1.2	0.43	1.61		12/26/18 18:30	108-05-4	
Vinyl chloride	<0.20	ug/m3	0.42	0.20	1.61		12/26/18 18:30	75-01-4	
m&p-Xylene	<1.1	ug/m3	2.8	1.1	1.61		12/26/18 18:30	179601-23-1	
o-Xylene	<0.55	ug/m3	1.4	0.55	1.61		12/26/18 18:30	95-47-6	

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ANALYTICAL RESULTS

Project: PECO_2017-100

Pace Project No.: 10459695

Sample: SV-7 Lab ID: 10459695003 Collected: 12/19/18 12:58 Received: 12/21/18 09:35 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Acetone	49.2	ug/m3	3.7	1.9	1.55		12/26/18 18:58	67-64-1	
Benzene	3.1	ug/m3	0.50	0.24	1.55		12/26/18 18:58	71-43-2	
Benzyl chloride	<1.9	ug/m3	4.1	1.9	1.55		12/26/18 18:58	100-44-7	
Bromodichloromethane	<0.57	ug/m3	2.1	0.57	1.55		12/26/18 18:58	75-27-4	
Bromoform	<2.2	ug/m3	8.1	2.2	1.55		12/26/18 18:58	75-25-2	
Bromomethane	<0.35	ug/m3	1.2	0.35	1.55		12/26/18 18:58	74-83-9	
1,3-Butadiene	<0.20	ug/m3	0.70	0.20	1.55		12/26/18 18:58	106-99-0	
2-Butanone (MEK)	8.3	ug/m3	4.6	0.57	1.55		12/26/18 18:58	78-93-3	
Carbon disulfide	<0.34	ug/m3	0.98	0.34	1.55		12/26/18 18:58	75-15-0	
Carbon tetrachloride	0.68J	ug/m3	2.0	0.66	1.55		12/26/18 18:58	56-23-5	
Chlorobenzene	<0.43	ug/m3	1.5	0.43	1.55		12/26/18 18:58	108-90-7	
Chloroethane	<0.40	ug/m3	0.83	0.40	1.55		12/26/18 18:58	75-00-3	
Chloroform	<0.30	ug/m3	0.77	0.30	1.55		12/26/18 18:58	67-66-3	
Chloromethane	<0.24	ug/m3	0.65	0.24	1.55		12/26/18 18:58	74-87-3	
Cyclohexane	<0.55	ug/m3	2.7	0.55	1.55		12/26/18 18:58	110-82-7	
Dibromochloromethane	<1.1	ug/m3	2.7	1.1	1.55		12/26/18 18:58	124-48-1	
1,2-Dibromoethane (EDB)	<0.57	ug/m3	1.2	0.57	1.55		12/26/18 18:58	106-93-4	
1,2-Dichlorobenzene	<0.77	ug/m3	1.9	0.77	1.55		12/26/18 18:58	95-50-1	
1,3-Dichlorobenzene	4.7	ug/m3	1.9	0.90	1.55		12/26/18 18:58	541-73-1	
1,4-Dichlorobenzene	<1.6	ug/m3	4.7	1.6	1.55		12/26/18 18:58	106-46-7	
Dichlorodifluoromethane	2.9	ug/m3	1.6	0.45	1.55		12/26/18 18:58	75-71-8	
1,1-Dichloroethane	<0.35	ug/m3	1.3	0.35	1.55		12/26/18 18:58	75-34-3	
1,2-Dichloroethane	<0.23	ug/m3	0.64	0.23	1.55		12/26/18 18:58	107-06-2	
1,1-Dichloroethene	<0.42	ug/m3	1.2	0.42	1.55		12/26/18 18:58	75-35-4	
cis-1,2-Dichloroethene	<0.34	ug/m3	1.2	0.34	1.55		12/26/18 18:58	156-59-2	
trans-1,2-Dichloroethene	<0.44	ug/m3	1.2	0.44	1.55		12/26/18 18:58	156-60-5	
1,2-Dichloropropane	<0.36	ug/m3	1.5	0.36	1.55		12/26/18 18:58	78-87-5	
cis-1,3-Dichloropropene	<0.47	ug/m3	1.4	0.47	1.55		12/26/18 18:58	10061-01-5	
trans-1,3-Dichloropropene	<0.68	ug/m3	1.4	0.68	1.55		12/26/18 18:58	10061-02-6	
Dichlorotetrafluoroethane	<0.68	ug/m3	2.2	0.68	1.55		12/26/18 18:58	76-14-2	
Ethanol	1040	ug/m3	3.0	1.3	1.55		12/26/18 18:58	64-17-5	E
Ethyl acetate	<0.29	ug/m3	1.1	0.29	1.55		12/26/18 18:58	141-78-6	
Ethylbenzene	3.1	ug/m3	1.4	0.47	1.55		12/26/18 18:58	100-41-4	
4-Ethyltoluene	1.7J	ug/m3	3.9	0.88	1.55		12/26/18 18:58	622-96-8	
n-Heptane	3.6	ug/m3	1.3	0.59	1.55		12/26/18 18:58	142-82-5	
Hexachloro-1,3-butadiene	<3.1	ug/m3	8.4	3.1	1.55		12/26/18 18:58	87-68-3	
n-Hexane	3.7	ug/m3	1.1	0.48	1.55		12/26/18 18:58	110-54-3	
2-Hexanone	<1.2	ug/m3	6.4	1.2	1.55		12/26/18 18:58	591-78-6	
Methylene Chloride	3.3J	ug/m3	5.5	1.5	1.55		12/26/18 18:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	2.1J	ug/m3	6.4	0.80	1.55		12/26/18 18:58	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/m3	5.7	1.0	1.55		12/26/18 18:58	1634-04-4	
Naphthalene	5.6	ug/m3	4.1	2.0	1.55		12/26/18 18:58	91-20-3	
2-Propanol	69.6	ug/m3	3.9	1.1	1.55		12/26/18 18:58	67-63-0	
Propylene	<0.22	ug/m3	0.54	0.22	1.55		12/26/18 18:58	115-07-1	
Styrene	<0.53	ug/m3	1.3	0.53	1.55		12/26/18 18:58	100-42-5	
1,1,2,2-Tetrachloroethane	<0.45	ug/m3	1.1	0.45	1.55		12/26/18 18:58	79-34-5	

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ANALYTICAL RESULTS

Project: PECO_2017-100

Pace Project No.: 10459695

Sample: SV-7 **Lab ID: 10459695003** Collected: 12/19/18 12:58 Received: 12/21/18 09:35 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Tetrachloroethene	67.1	ug/m3	1.1	0.49	1.55		12/26/18 18:58	127-18-4	
Tetrahydrofuran	<0.40	ug/m3	0.93	0.40	1.55		12/26/18 18:58	109-99-9	
Toluene	18.5	ug/m3	1.2	0.54	1.55		12/26/18 18:58	108-88-3	
1,2,4-Trichlorobenzene	<5.8	ug/m3	11.7	5.8	1.55		12/26/18 18:58	120-82-1	
1,1,1-Trichloroethane	<0.48	ug/m3	1.7	0.48	1.55		12/26/18 18:58	71-55-6	
1,1,2-Trichloroethane	<0.39	ug/m3	0.86	0.39	1.55		12/26/18 18:58	79-00-5	
Trichloroethene	1.7	ug/m3	0.85	0.40	1.55		12/26/18 18:58	79-01-6	
Trichlorofluoromethane	1.4J	ug/m3	1.8	0.57	1.55		12/26/18 18:58	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.87	ug/m3	2.4	0.87	1.55		12/26/18 18:58	76-13-1	
1,2,4-Trimethylbenzene	4.3	ug/m3	1.5	0.70	1.55		12/26/18 18:58	95-63-6	
1,3,5-Trimethylbenzene	1.7	ug/m3	1.5	0.62	1.55		12/26/18 18:58	108-67-8	
Vinyl acetate	<0.42	ug/m3	1.1	0.42	1.55		12/26/18 18:58	108-05-4	
Vinyl chloride	<0.20	ug/m3	0.40	0.20	1.55		12/26/18 18:58	75-01-4	
m&p-Xylene	12.3	ug/m3	2.7	1.1	1.55		12/26/18 18:58	179601-23-1	
o-Xylene	4.3	ug/m3	1.4	0.53	1.55		12/26/18 18:58	95-47-6	

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QUALITY CONTROL DATA

Project: PECO_2017-100

Pace Project No.: 10459695

QC Batch: 582777

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR Low Level

Associated Lab Samples: 10459695001, 10459695002, 10459695003

METHOD BLANK: 3158568

Matrix: Air

Associated Lab Samples: 10459695001, 10459695002, 10459695003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.31	1.1	12/26/18 15:12	
1,1,2,2-Tetrachloroethane	ug/m3	<0.29	0.70	12/26/18 15:12	
1,1,2-Trichloroethane	ug/m3	<0.25	0.56	12/26/18 15:12	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.56	1.6	12/26/18 15:12	
1,1-Dichloroethane	ug/m3	<0.22	0.82	12/26/18 15:12	
1,1-Dichloroethene	ug/m3	<0.27	0.81	12/26/18 15:12	
1,2,4-Trichlorobenzene	ug/m3	<3.7	7.5	12/26/18 15:12	
1,2,4-Trimethylbenzene	ug/m3	<0.45	1.0	12/26/18 15:12	
1,2-Dibromoethane (EDB)	ug/m3	<0.37	0.78	12/26/18 15:12	
1,2-Dichlorobenzene	ug/m3	<0.50	1.2	12/26/18 15:12	
1,2-Dichloroethane	ug/m3	<0.15	0.41	12/26/18 15:12	
1,2-Dichloropropane	ug/m3	<0.23	0.94	12/26/18 15:12	
1,3,5-Trimethylbenzene	ug/m3	<0.40	1.0	12/26/18 15:12	
1,3-Butadiene	ug/m3	<0.13	0.45	12/26/18 15:12	
1,3-Dichlorobenzene	ug/m3	<0.58	1.2	12/26/18 15:12	
1,4-Dichlorobenzene	ug/m3	<1.0	3.1	12/26/18 15:12	
2-Butanone (MEK)	ug/m3	<0.37	3.0	12/26/18 15:12	
2-Hexanone	ug/m3	<0.74	4.2	12/26/18 15:12	
2-Propanol	ug/m3	<0.70	2.5	12/26/18 15:12	
4-Ethyltoluene	ug/m3	<0.57	2.5	12/26/18 15:12	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.52	4.2	12/26/18 15:12	
Acetone	ug/m3	<1.2	2.4	12/26/18 15:12	
Benzene	ug/m3	<0.15	0.32	12/26/18 15:12	
Benzyl chloride	ug/m3	<1.2	2.6	12/26/18 15:12	
Bromodichloromethane	ug/m3	<0.37	1.4	12/26/18 15:12	
Bromoform	ug/m3	<1.4	5.2	12/26/18 15:12	
Bromomethane	ug/m3	<0.23	0.79	12/26/18 15:12	
Carbon disulfide	ug/m3	<0.22	0.63	12/26/18 15:12	
Carbon tetrachloride	ug/m3	<0.43	1.3	12/26/18 15:12	
Chlorobenzene	ug/m3	<0.28	0.94	12/26/18 15:12	
Chloroethane	ug/m3	<0.26	0.54	12/26/18 15:12	
Chloroform	ug/m3	<0.20	0.50	12/26/18 15:12	
Chloromethane	ug/m3	<0.16	0.42	12/26/18 15:12	
cis-1,2-Dichloroethene	ug/m3	<0.22	0.81	12/26/18 15:12	
cis-1,3-Dichloropropene	ug/m3	<0.30	0.92	12/26/18 15:12	
Cyclohexane	ug/m3	<0.35	1.8	12/26/18 15:12	
Dibromochloromethane	ug/m3	<0.72	1.7	12/26/18 15:12	
Dichlorodifluoromethane	ug/m3	<0.29	1.0	12/26/18 15:12	
Dichlorotetrafluoroethane	ug/m3	<0.44	1.4	12/26/18 15:12	
Ethanol	ug/m3	<0.81	1.9	12/26/18 15:12	
Ethyl acetate	ug/m3	<0.19	0.73	12/26/18 15:12	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: PECO_2017-100

Pace Project No.: 10459695

METHOD BLANK: 3158568

Matrix: Air

Associated Lab Samples: 10459695001, 10459695002, 10459695003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	<0.30	0.88	12/26/18 15:12	
Hexachloro-1,3-butadiene	ug/m3	<2.0	5.4	12/26/18 15:12	
m&p-Xylene	ug/m3	<0.70	1.8	12/26/18 15:12	
Methyl-tert-butyl ether	ug/m3	<0.66	3.7	12/26/18 15:12	
Methylene Chloride	ug/m3	<0.94	3.5	12/26/18 15:12	
n-Heptane	ug/m3	<0.38	0.83	12/26/18 15:12	
n-Hexane	ug/m3	<0.31	0.72	12/26/18 15:12	
Naphthalene	ug/m3	<1.3	2.7	12/26/18 15:12	
o-Xylene	ug/m3	<0.34	0.88	12/26/18 15:12	
Propylene	ug/m3	<0.14	0.35	12/26/18 15:12	
Styrene	ug/m3	<0.34	0.87	12/26/18 15:12	
Tetrachloroethene	ug/m3	<0.31	0.69	12/26/18 15:12	
Tetrahydrofuran	ug/m3	<0.26	0.60	12/26/18 15:12	
Toluene	ug/m3	<0.35	0.77	12/26/18 15:12	
trans-1,2-Dichloroethene	ug/m3	<0.28	0.81	12/26/18 15:12	
trans-1,3-Dichloropropene	ug/m3	<0.44	0.92	12/26/18 15:12	
Trichloroethene	ug/m3	<0.26	0.55	12/26/18 15:12	
Trichlorofluoromethane	ug/m3	<0.37	1.1	12/26/18 15:12	
Vinyl acetate	ug/m3	<0.27	0.72	12/26/18 15:12	
Vinyl chloride	ug/m3	<0.13	0.26	12/26/18 15:12	

LABORATORY CONTROL SAMPLE: 3158569

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	56.6	52.0	92	70-135	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	67.2	96	70-146	
1,1,2-Trichloroethane	ug/m3	58.2	55.0	94	70-135	
1,1,2-Trichlorotrifluoroethane	ug/m3	84.9	73.5	87	63-139	
1,1-Dichloroethane	ug/m3	42.4	40.7	96	70-134	
1,1-Dichloroethene	ug/m3	43.5	36.4	84	70-137	
1,2,4-Trichlorobenzene	ug/m3	74.7	60.2	81	60-133	
1,2,4-Trimethylbenzene	ug/m3	53	44.4	84	70-137	
1,2-Dibromoethane (EDB)	ug/m3	83.6	73.6	88	70-140	
1,2-Dichlorobenzene	ug/m3	59.9	53.8	90	70-137	
1,2-Dichloroethane	ug/m3	42.8	38.8	91	70-136	
1,2-Dichloropropane	ug/m3	48.4	45.6	94	70-136	
1,3,5-Trimethylbenzene	ug/m3	53.5	44.0	82	70-133	
1,3-Butadiene	ug/m3	22.5	22.6	101	64-141	
1,3-Dichlorobenzene	ug/m3	65.4	52.9	81	70-137	
1,4-Dichlorobenzene	ug/m3	65.4	53.1	81	70-134	
2-Butanone (MEK)	ug/m3	32.4	31.8	98	65-143	
2-Hexanone	ug/m3	42.9	41.7	97	60-148	
2-Propanol	ug/m3	26.5	24.2	91	65-135	
4-Ethyltoluene	ug/m3	52	46.3	89	70-132	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PECO_2017-100

Pace Project No.: 10459695

LABORATORY CONTROL SAMPLE: 3158569

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	42	41.9	100	70-135	
Acetone	ug/m3	26.6	20.4	77	59-132	
Benzene	ug/m3	34.4	32.9	96	70-134	
Benzyl chloride	ug/m3	56.3	52.0	92	56-150	
Bromodichloromethane	ug/m3	69.5	66.1	95	70-142	
Bromoform	ug/m3	97.7	97.7	100	69-150	
Bromomethane	ug/m3	32.9	40.1	122	61-141	
Carbon disulfide	ug/m3	32.9	31.6	96	66-134	
Carbon tetrachloride	ug/m3	65.9	64.4	98	60-145	
Chlorobenzene	ug/m3	49.6	43.6	88	70-130	
Chloroethane	ug/m3	26.8	24.8	92	65-143	
Chloroform	ug/m3	52.6	45.1	86	70-132	
Chloromethane	ug/m3	22.2	20.6	92	58-140	
cis-1,2-Dichloroethene	ug/m3	41.9	41.0	98	70-136	
cis-1,3-Dichloropropene	ug/m3	48	43.1	90	70-136	
Cyclohexane	ug/m3	35.3	35.1	99	70-133	
Dibromochloromethane	ug/m3	90	92.1	102	68-149	
Dichlorodifluoromethane	ug/m3	52.8	47.5	90	69-130	
Dichlorotetrafluoroethane	ug/m3	74.6	65.7	88	68-130	
Ethanol	ug/m3	21.1	20.9	99	65-146	
Ethyl acetate	ug/m3	38.8	36.1	93	68-136	
Ethylbenzene	ug/m3	45.5	39.8	88	70-133	
Hexachloro-1,3-butadiene	ug/m3	108	94.7	87	59-140	
m&p-Xylene	ug/m3	45.9	44.9	98	70-133	
Methyl-tert-butyl ether	ug/m3	37.4	35.0	94	70-132	
Methylene Chloride	ug/m3	38.1	37.7	99	67-132	
n-Heptane	ug/m3	43.7	40.7	93	64-136	
n-Hexane	ug/m3	37.6	34.3	91	70-130	
Naphthalene	ug/m3	52.7	42.5	81	55-136	
o-Xylene	ug/m3	44.1	41.1	93	70-132	
Propylene	ug/m3	19.2	17.3	90	37-150	
Styrene	ug/m3	44.2	41.7	94	70-139	
Tetrachloroethene	ug/m3	70.3	64.2	91	70-133	
Tetrahydrofuran	ug/m3	30.3	30.6	101	62-141	
Toluene	ug/m3	39.4	37.5	95	70-130	
trans-1,2-Dichloroethene	ug/m3	41.5	41.0	99	70-132	
trans-1,3-Dichloropropene	ug/m3	44.8	46.4	104	70-135	
Trichloroethene	ug/m3	56.3	53.6	95	70-135	
Trichlorofluoromethane	ug/m3	58.8	52.4	89	59-140	
Vinyl acetate	ug/m3	35.1	31.7	90	57-150	
Vinyl chloride	ug/m3	28.1	27.9	100	70-141	

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QUALITY CONTROL DATA

Project: PECO_2017-100

Pace Project No.: 10459695

SAMPLE DUPLICATE: 3159318

Parameter	Units	10459681001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.31		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.29		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.25		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	<0.56		25	
1,1-Dichloroethane	ug/m3	ND	<0.22		25	
1,1-Dichloroethene	ug/m3	ND	<0.27		25	
1,2,4-Trichlorobenzene	ug/m3	ND	<3.7		25	
1,2,4-Trimethylbenzene	ug/m3	ND	<0.45		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	<0.37		25	
1,2-Dichlorobenzene	ug/m3	ND	<0.50		25	
1,2-Dichloroethane	ug/m3	ND	<0.15		25	
1,2-Dichloropropane	ug/m3	ND	<0.23		25	
1,3,5-Trimethylbenzene	ug/m3	ND	<0.40		25	
1,3-Butadiene	ug/m3	ND	<0.13		25	
1,3-Dichlorobenzene	ug/m3	ND	<0.58		25	
1,4-Dichlorobenzene	ug/m3	ND	<1.0		25	
2-Butanone (MEK)	ug/m3	ND	0.52J		25	
2-Hexanone	ug/m3	ND	<0.74		25	
2-Propanol	ug/m3	18.9	17.8	6	25	
4-Ethyltoluene	ug/m3	ND	<0.57		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	<0.52		25	
Acetone	ug/m3	5.8	4.6	23	25	
Benzene	ug/m3	0.69	0.66	4	25	
Benzyl chloride	ug/m3	ND	<1.2		25	
Bromodichloromethane	ug/m3	ND	<0.37		25	
Bromoform	ug/m3	ND	<1.4		25	
Bromomethane	ug/m3	ND	<0.23		25	
Carbon disulfide	ug/m3	ND	<0.22		25	
Carbon tetrachloride	ug/m3	ND	<0.43		25	
Chlorobenzene	ug/m3	ND	<0.28		25	
Chloroethane	ug/m3	ND	<0.26		25	
Chloroform	ug/m3	ND	0.23J		25	
Chloromethane	ug/m3	0.71	0.78	10	25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.22		25	
cis-1,3-Dichloropropene	ug/m3	ND	<0.30		25	
Cyclohexane	ug/m3	ND	<0.35		25	
Dibromochloromethane	ug/m3	ND	<0.72		25	
Dichlorodifluoromethane	ug/m3	2.2	2.3	3	25	
Dichlorotetrafluoroethane	ug/m3	ND	<0.44		25	
Ethanol	ug/m3	3.9	4.1	5	25	
Ethyl acetate	ug/m3	ND	<0.19		25	
Ethylbenzene	ug/m3	ND	<0.30		25	
Hexachloro-1,3-butadiene	ug/m3	ND	<2.0		25	
m&p-Xylene	ug/m3	ND	0.78J		25	
Methyl-tert-butyl ether	ug/m3	ND	<0.66		25	
Methylene Chloride	ug/m3	ND	<0.94		25	
n-Heptane	ug/m3	ND	0.44J		25	

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QUALITY CONTROL DATA

Project: PECO_2017-100

Pace Project No.: 10459695

SAMPLE DUPLICATE: 3159318

Parameter	Units	10459681001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	0.75	0.72	3	25	
Naphthalene	ug/m3	ND	<1.3		25	
o-Xylene	ug/m3	ND	<0.34		25	
Propylene	ug/m3	ND	<0.14		25	
Styrene	ug/m3	ND	<0.34		25	
Tetrachloroethene	ug/m3	ND	<0.31		25	
Tetrahydrofuran	ug/m3	ND	<0.26		25	
Toluene	ug/m3	2.0	1.9	6	25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.28		25	
trans-1,3-Dichloropropene	ug/m3	ND	<0.44		25	
Trichloroethene	ug/m3	ND	<0.26		25	
Trichlorofluoromethane	ug/m3	1.3	1.2	9	25	
Vinyl acetate	ug/m3	ND	<0.27		25	
Vinyl chloride	ug/m3	ND	<0.13		25	

SAMPLE DUPLICATE: 3159319

Parameter	Units	10459695001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.51	<0.51		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.48	<0.48		25	
1,1,2-Trichloroethane	ug/m3	<0.41	<0.41		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.92	<0.92		25	
1,1-Dichloroethane	ug/m3	<0.37	<0.37		25	
1,1-Dichloroethene	ug/m3	<0.45	<0.45		25	
1,2,4-Trichlorobenzene	ug/m3	<6.1	<6.1		25	
1,2,4-Trimethylbenzene	ug/m3	9.0	9.3	4	25	
1,2-Dibromoethane (EDB)	ug/m3	<0.60	<0.60		25	
1,2-Dichlorobenzene	ug/m3	<0.82	<0.82		25	
1,2-Dichloroethane	ug/m3	<0.25	<0.25		25	
1,2-Dichloropropane	ug/m3	<0.38	<0.38		25	
1,3,5-Trimethylbenzene	ug/m3	2.7	2.9	6	25	
1,3-Butadiene	ug/m3	<0.21	<0.21		25	
1,3-Dichlorobenzene	ug/m3	1.3J	1.3J		25	
1,4-Dichlorobenzene	ug/m3	<1.6	<1.6		25	
2-Butanone (MEK)	ug/m3	5.4	6.4	18	25	
2-Hexanone	ug/m3	<1.2	<1.2		25	
2-Propanol	ug/m3	23.9	24.4	2	25	
4-Ethyltoluene	ug/m3	2.8J	2.7J		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	3.5J	3.6J		25	
Acetone	ug/m3	29.6	31.1	5	25	
Benzene	ug/m3	2.0	2.0	2	25	
Benzyl chloride	ug/m3	<2.0	<2.0		25	
Bromodichloromethane	ug/m3	<0.60	<0.60		25	
Bromoform	ug/m3	<2.3	<2.3		25	
Bromomethane	ug/m3	<0.37	<0.37		25	

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QUALITY CONTROL DATA

Project: PECO_2017-100

Pace Project No.: 10459695

SAMPLE DUPLICATE: 3159319

Parameter	Units	10459695001 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon disulfide	ug/m3	<0.36	<0.36		25	
Carbon tetrachloride	ug/m3	<0.70	<0.70		25	
Chlorobenzene	ug/m3	<0.45	<0.45		25	
Chloroethane	ug/m3	<0.43	<0.43		25	
Chloroform	ug/m3	<0.32	<0.32		25	
Chloromethane	ug/m3	<0.26	<0.26		25	
cis-1,2-Dichloroethene	ug/m3	<0.36	<0.36		25	
cis-1,3-Dichloropropene	ug/m3	<0.50	<0.50		25	
Cyclohexane	ug/m3	<0.58	<0.58		25	
Dibromochloromethane	ug/m3	<1.2	<1.2		25	
Dichlorodifluoromethane	ug/m3	2.6	3.0	16	25	
Dichlorotetrafluoroethane	ug/m3	<0.72	<0.72		25	
Ethanol	ug/m3	572	630	10	25	
Ethyl acetate	ug/m3	<0.31	<0.31		25	
Ethylbenzene	ug/m3	3.9	3.9	1	25	
Hexachloro-1,3-butadiene	ug/m3	<3.2	<3.2		25	
m&p-Xylene	ug/m3	15.4	16.1	4	25	
Methyl-tert-butyl ether	ug/m3	<1.1	<1.1		25	
Methylene Chloride	ug/m3	4.1J	4.5J		25	
n-Heptane	ug/m3	2.4	2.5	1	25	
n-Hexane	ug/m3	2.0	1.6	19	25	
Naphthalene	ug/m3	5.0	5.7	13	25	
o-Xylene	ug/m3	5.9	6.0	2	25	
Propylene	ug/m3	<0.23	<0.23		25	
Styrene	ug/m3	0.62J	<0.56		25	
Tetrachloroethene	ug/m3	595	611	3	25	
Tetrahydrofuran	ug/m3	<0.43	<0.43		25	
Toluene	ug/m3	16.5	16.1	2	25	
trans-1,2-Dichloroethene	ug/m3	<0.47	<0.47		25	
trans-1,3-Dichloropropene	ug/m3	<0.72	<0.72		25	
Trichloroethene	ug/m3	2.7	2.1	25	25	
Trichlorofluoromethane	ug/m3	1.5J	1.4J		25	
Vinyl acetate	ug/m3	<0.44	<0.44		25	
Vinyl chloride	ug/m3	<0.21	<0.21		25	

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QUALIFIERS

Project: PECO_2017-100

Pace Project No.: 10459695

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PECO_2017-100

Pace Project No.: 10459695

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10459695001	SV-2	TO-15	582777		
10459695002	SV-1	TO-15	582777		
10459695003	SV-7	TO-15	582777		

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AIR: CHAIN-OF-CUSTODY /

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant

WO#: 10459695



10459695

Section A Required Client Information: Company: <u>APEX</u> Address: <u>300 S Wacker Drive</u> <u>Suite 630</u> Email To: <u>snewlin@apexcos.com</u> Phone: _____ Fax: _____ Requested Due Date/TAT: _____	Section B Required Project Information: Report To: <u>snewlin@apexcos.com</u> Copy To: _____ Purchase Order No.: _____ Project Name: _____ Project Number: _____	Section C Invoice Information: Attention: _____ Company Name: _____ Address: _____ Pace Quote Reference: _____ Pace Project Manager/Sales Rep. _____ Pace Profile #: <u>37797</u>	Page: _____ of _____ Program <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other _____ Location of Sampling by State _____ Reporting Units ug/m ³ _____ mg/m ³ _____ PPBV _____ PPMV _____ Other _____ Report Level <u>II</u> <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/> Other _____
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ITEM #	Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Codes MEDIA CODE Tedlar Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10	MEDIA CODE	PID Reading (Client only)	COLLECTED				Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method:								Pace Lab ID
					COMPOSITE START		COMPOSITE - END/GRAB						PH10	3C - Fixed Gas (%)	TO-3 BTX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTX	TO-15 Short List Chlorinated	
					DATE	TIME	DATE	TIME													
1	SV-2				12/19	11:30	12/19	12:02	24	5	164	2835									001
2	SV-1				12/19	11:46	12/19	12:20	30	6	568	3254									002
3	SV-7				12/19	12:03	12/19	12:38	30	5	42	1156									003
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments : RELINQUISHED BY / AFFILIATION <u>AHMED N / APEX</u>	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	<u>12/19</u>	<u>4:00</u>	<u>ALLIANCE</u>	<u>12-21-18</u>	<u>935</u>	—	Y/N	Y/N	Y/N
						Y/N	Y/N	Y/N	Y/N
						Y/N	Y/N	Y/N	Y/N
						Y/N	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: AHMED N ALI

SIGNATURE of SAMPLER: [Signature] DATE Signed (MM/DD/YY): 12/19/18

ORIGINAL



Document Name:
Air Sample Condition Upon Receipt

Document No.:
F-MN-A-106-rev.16

Document Revised: 11Oct2018
Page 1 of 1

Issuing Authority:
Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Apex

Project #: _____

WO#: 10459695

PM: CT1 Due Date: 12/31/18
CLIENT: Apex CO LLC

Courier: Fed Ex UPS Speedee Client
 Commercial Pace Other: _____

Tracking Number: 4545 9908 1747

Optional: Proj. Due Date: _____ Proj. Name: _____

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Tin Can Other: _____ Temp Blank rec: Yes No

Temp. (TO17 and TO13 samples only) (°C): X Corrected Temp (°C): X Thermom. Used: G87A9170600254 G87A9155100842

Temp should be above freezing to 6°C Correction Factor: X Date & Initials of Person Examining Contents: 12-21-18 AA

Type of ice Received Blue Wet None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Media: <u>Air Can</u> Airbag Filter TDT Passive		11. Individually Certified Cans Y <u>N</u> (list which samples)
Is sufficient information available to reconcile samples to the COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.

Samples Received:					Pressure Gauge # 10AIR35				
Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
<u>SU-2</u>			<u>-5.5</u>	<u>+5</u>					
<u>-1</u>		<u>1139</u>	<u>-5</u>	<u>"</u>					
<u>-7</u>			<u>-4</u>	<u>"</u>					

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Carolynne Trout

Date: 12/21/18

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

July 09, 2019

Steve Newlin
Apex Companies
300 S. Wacker
Chicago, IL 60606

RE: Project: Apex Companies
Pace Project No.: 10481644

Dear Steve Newlin:

Enclosed are the analytical results for sample(s) received by the laboratory on July 01, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Carolynne Trout
carolynne.trout@pacelabs.com
1(612)607-6351
Project Manager

Enclosures

cc: Ahmed Ali, Apex Companies LLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Apex Companies

Pace Project No.: 10481644

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605

Georgia Certification #: 959

Guam EPA Certification #: MN00064

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: 03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Massachusetts Certification #: M-MN064

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Vermont Certification #: VT-027053137

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

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SAMPLE SUMMARY

Project: Apex Companies

Pace Project No.: 10481644

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10481644001	SV-1	Air	06/28/19 13:27	07/01/19 11:25
10481644002	SV-2	Air	06/28/19 13:27	07/01/19 11:25
10481644003	SV-7	Air	06/28/19 13:28	07/01/19 11:25
10481644004	IA-1	Air	06/28/19 13:37	07/01/19 11:25

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SAMPLE ANALYTE COUNT

Project: Apex Companies

Pace Project No.: 10481644

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10481644001	SV-1	TO-15	MLS	61
10481644002	SV-2	TO-15	MLS	61
10481644003	SV-7	TO-15	MLS	61
10481644004	IA-1	TO-15	MLS	61

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Apex Companies

Pace Project No.: 10481644

Sample: SV-1 **Lab ID: 10481644001** Collected: 06/28/19 13:27 Received: 07/01/19 11:25 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Acetone	8.9	ug/m3	3.5	1.8	1.46		07/08/19 21:39	67-64-1	
Benzene	0.49	ug/m3	0.47	0.22	1.46		07/08/19 21:39	71-43-2	
Benzyl chloride	<1.8	ug/m3	3.8	1.8	1.46		07/08/19 21:39	100-44-7	
Bromodichloromethane	<0.53	ug/m3	2.0	0.53	1.46		07/08/19 21:39	75-27-4	
Bromoform	<2.1	ug/m3	7.7	2.1	1.46		07/08/19 21:39	75-25-2	
Bromomethane	<0.33	ug/m3	1.2	0.33	1.46		07/08/19 21:39	74-83-9	
1,3-Butadiene	<0.19	ug/m3	0.66	0.19	1.46		07/08/19 21:39	106-99-0	
2-Butanone (MEK)	1.9J	ug/m3	4.4	0.54	1.46		07/08/19 21:39	78-93-3	
Carbon disulfide	<0.32	ug/m3	0.92	0.32	1.46		07/08/19 21:39	75-15-0	
Carbon tetrachloride	<0.63	ug/m3	1.9	0.63	1.46		07/08/19 21:39	56-23-5	
Chlorobenzene	<0.40	ug/m3	1.4	0.40	1.46		07/08/19 21:39	108-90-7	
Chloroethane	<0.38	ug/m3	2.0	0.38	1.46		07/08/19 21:39	75-00-3	
Chloroform	0.36J	ug/m3	0.72	0.29	1.46		07/08/19 21:39	67-66-3	
Chloromethane	<0.23	ug/m3	0.61	0.23	1.46		07/08/19 21:39	74-87-3	
Cyclohexane	<0.52	ug/m3	2.6	0.52	1.46		07/08/19 21:39	110-82-7	
Dibromochloromethane	<1.0	ug/m3	2.5	1.0	1.46		07/08/19 21:39	124-48-1	
1,2-Dibromoethane (EDB)	<0.53	ug/m3	1.1	0.53	1.46		07/08/19 21:39	106-93-4	
1,2-Dichlorobenzene	<0.73	ug/m3	1.8	0.73	1.46		07/08/19 21:39	95-50-1	
1,3-Dichlorobenzene	<0.85	ug/m3	1.8	0.85	1.46		07/08/19 21:39	541-73-1	
1,4-Dichlorobenzene	<1.5	ug/m3	4.5	1.5	1.46		07/08/19 21:39	106-46-7	
Dichlorodifluoromethane	2.1	ug/m3	1.5	0.43	1.46		07/08/19 21:39	75-71-8	
1,1-Dichloroethane	<0.33	ug/m3	1.2	0.33	1.46		07/08/19 21:39	75-34-3	
1,2-Dichloroethane	<0.22	ug/m3	0.60	0.22	1.46		07/08/19 21:39	107-06-2	
1,1-Dichloroethene	<0.40	ug/m3	1.2	0.40	1.46		07/08/19 21:39	75-35-4	
cis-1,2-Dichloroethene	<0.32	ug/m3	1.2	0.32	1.46		07/08/19 21:39	156-59-2	
trans-1,2-Dichloroethene	<0.42	ug/m3	1.2	0.42	1.46		07/08/19 21:39	156-60-5	
1,2-Dichloropropane	<0.34	ug/m3	1.4	0.34	1.46		07/08/19 21:39	78-87-5	
cis-1,3-Dichloropropene	<0.44	ug/m3	1.3	0.44	1.46		07/08/19 21:39	10061-01-5	
trans-1,3-Dichloropropene	<0.64	ug/m3	1.3	0.64	1.46		07/08/19 21:39	10061-02-6	
Dichlorotetrafluoroethane	<0.64	ug/m3	2.1	0.64	1.46		07/08/19 21:39	76-14-2	
Ethanol	230	ug/m3	2.8	1.2	1.46		07/08/19 21:39	64-17-5	
Ethyl acetate	<0.28	ug/m3	1.1	0.28	1.46		07/08/19 21:39	141-78-6	
Ethylbenzene	0.83J	ug/m3	1.3	0.45	1.46		07/08/19 21:39	100-41-4	
4-Ethyltoluene	<0.83	ug/m3	3.6	0.83	1.46		07/08/19 21:39	622-96-8	
n-Heptane	<0.55	ug/m3	1.2	0.55	1.46		07/08/19 21:39	142-82-5	
Hexachloro-1,3-butadiene	<2.9	ug/m3	7.9	2.9	1.46		07/08/19 21:39	87-68-3	
n-Hexane	<0.45	ug/m3	1.0	0.45	1.46		07/08/19 21:39	110-54-3	
2-Hexanone	<1.1	ug/m3	6.1	1.1	1.46		07/08/19 21:39	591-78-6	
Methylene Chloride	13.9	ug/m3	5.2	1.4	1.46		07/08/19 21:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.76	ug/m3	6.1	0.76	1.46		07/08/19 21:39	108-10-1	
Methyl-tert-butyl ether	<0.97	ug/m3	5.3	0.97	1.46		07/08/19 21:39	1634-04-4	
Naphthalene	2.2J	ug/m3	3.9	1.9	1.46		07/08/19 21:39	91-20-3	
2-Propanol	3.8	ug/m3	3.6	1.0	1.46		07/08/19 21:39	67-63-0	
Propylene	<0.21	ug/m3	0.51	0.21	1.46		07/08/19 21:39	115-07-1	
Styrene	3.8	ug/m3	1.3	0.50	1.46		07/08/19 21:39	100-42-5	
1,1,2,2-Tetrachloroethane	<0.43	ug/m3	1.0	0.43	1.46		07/08/19 21:39	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Apex Companies
Pace Project No.: 10481644

Sample: SV-1 Lab ID: 10481644001 Collected: 06/28/19 13:27 Received: 07/01/19 11:25 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Tetrachloroethene	105	ug/m3	1.0	0.46	1.46		07/08/19 21:39	127-18-4	
Tetrahydrofuran	<0.38	ug/m3	0.88	0.38	1.46		07/08/19 21:39	109-99-9	
Toluene	3.4	ug/m3	1.1	0.51	1.46		07/08/19 21:39	108-88-3	
1,2,4-Trichlorobenzene	<5.4	ug/m3	11.0	5.4	1.46		07/08/19 21:39	120-82-1	
1,1,1-Trichloroethane	<0.45	ug/m3	1.6	0.45	1.46		07/08/19 21:39	71-55-6	
1,1,2-Trichloroethane	<0.36	ug/m3	1.6	0.36	1.46		07/08/19 21:39	79-00-5	
Trichloroethene	1.7	ug/m3	0.80	0.38	1.46		07/08/19 21:39	79-01-6	
Trichlorofluoromethane	1.5J	ug/m3	1.7	0.53	1.46		07/08/19 21:39	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.82	ug/m3	2.3	0.82	1.46		07/08/19 21:39	76-13-1	
1,2,4-Trimethylbenzene	3.0	ug/m3	1.5	0.66	1.46		07/08/19 21:39	95-63-6	
1,3,5-Trimethylbenzene	1.1J	ug/m3	1.5	0.58	1.46		07/08/19 21:39	108-67-8	
Vinyl acetate	<0.39	ug/m3	1.0	0.39	1.46		07/08/19 21:39	108-05-4	
Vinyl chloride	<0.18	ug/m3	0.38	0.18	1.46		07/08/19 21:39	75-01-4	
m&p-Xylene	3.1	ug/m3	2.6	1.0	1.46		07/08/19 21:39	179601-23-1	
o-Xylene	1.4	ug/m3	1.3	0.50	1.46		07/08/19 21:39	95-47-6	

Sample: SV-2 Lab ID: 10481644002 Collected: 06/28/19 13:27 Received: 07/01/19 11:25 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Acetone	11.2	ug/m3	3.7	1.8	1.52		07/08/19 22:10	67-64-1	
Benzene	0.30J	ug/m3	0.49	0.23	1.52		07/08/19 22:10	71-43-2	
Benzyl chloride	<1.8	ug/m3	4.0	1.8	1.52		07/08/19 22:10	100-44-7	
Bromodichloromethane	<0.56	ug/m3	2.1	0.56	1.52		07/08/19 22:10	75-27-4	
Bromoform	<2.2	ug/m3	8.0	2.2	1.52		07/08/19 22:10	75-25-2	
Bromomethane	<0.35	ug/m3	1.2	0.35	1.52		07/08/19 22:10	74-83-9	
1,3-Butadiene	<0.19	ug/m3	0.68	0.19	1.52		07/08/19 22:10	106-99-0	
2-Butanone (MEK)	2.6J	ug/m3	4.6	0.56	1.52		07/08/19 22:10	78-93-3	
Carbon disulfide	1.6	ug/m3	0.96	0.33	1.52		07/08/19 22:10	75-15-0	
Carbon tetrachloride	<0.65	ug/m3	1.9	0.65	1.52		07/08/19 22:10	56-23-5	
Chlorobenzene	<0.42	ug/m3	1.4	0.42	1.52		07/08/19 22:10	108-90-7	
Chloroethane	<0.40	ug/m3	2.0	0.40	1.52		07/08/19 22:10	75-00-3	
Chloroform	<0.30	ug/m3	0.75	0.30	1.52		07/08/19 22:10	67-66-3	
Chloromethane	<0.24	ug/m3	0.64	0.24	1.52		07/08/19 22:10	74-87-3	
Cyclohexane	<0.54	ug/m3	2.7	0.54	1.52		07/08/19 22:10	110-82-7	
Dibromochloromethane	<1.1	ug/m3	2.6	1.1	1.52		07/08/19 22:10	124-48-1	
1,2-Dibromoethane (EDB)	<0.56	ug/m3	1.2	0.56	1.52		07/08/19 22:10	106-93-4	
1,2-Dichlorobenzene	<0.76	ug/m3	1.9	0.76	1.52		07/08/19 22:10	95-50-1	
1,3-Dichlorobenzene	<0.88	ug/m3	1.9	0.88	1.52		07/08/19 22:10	541-73-1	
1,4-Dichlorobenzene	<1.5	ug/m3	4.7	1.5	1.52		07/08/19 22:10	106-46-7	
Dichlorodifluoromethane	2.2	ug/m3	1.5	0.45	1.52		07/08/19 22:10	75-71-8	
1,1-Dichloroethane	<0.34	ug/m3	1.3	0.34	1.52		07/08/19 22:10	75-34-3	
1,2-Dichloroethane	<0.23	ug/m3	0.62	0.23	1.52		07/08/19 22:10	107-06-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Apex Companies

Pace Project No.: 10481644

Sample: SV-2 **Lab ID: 10481644002** Collected: 06/28/19 13:27 Received: 07/01/19 11:25 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,1-Dichloroethene	<0.42	ug/m3	1.2	0.42	1.52		07/08/19 22:10	75-35-4	
cis-1,2-Dichloroethene	<0.33	ug/m3	1.2	0.33	1.52		07/08/19 22:10	156-59-2	
trans-1,2-Dichloroethene	<0.43	ug/m3	1.2	0.43	1.52		07/08/19 22:10	156-60-5	
1,2-Dichloropropane	<0.35	ug/m3	1.4	0.35	1.52		07/08/19 22:10	78-87-5	
cis-1,3-Dichloropropene	<0.46	ug/m3	1.4	0.46	1.52		07/08/19 22:10	10061-01-5	
trans-1,3-Dichloropropene	<0.67	ug/m3	1.4	0.67	1.52		07/08/19 22:10	10061-02-6	
Dichlorotetrafluoroethane	<0.66	ug/m3	2.2	0.66	1.52		07/08/19 22:10	76-14-2	
Ethanol	291	ug/m3	2.9	1.2	1.52		07/08/19 22:10	64-17-5	
Ethyl acetate	<0.29	ug/m3	1.1	0.29	1.52		07/08/19 22:10	141-78-6	
Ethylbenzene	0.61J	ug/m3	1.3	0.46	1.52		07/08/19 22:10	100-41-4	
4-Ethyltoluene	2.1J	ug/m3	3.8	0.87	1.52		07/08/19 22:10	622-96-8	
n-Heptane	<0.58	ug/m3	1.3	0.58	1.52		07/08/19 22:10	142-82-5	
Hexachloro-1,3-butadiene	<3.0	ug/m3	8.2	3.0	1.52		07/08/19 22:10	87-68-3	
n-Hexane	<0.47	ug/m3	1.1	0.47	1.52		07/08/19 22:10	110-54-3	
2-Hexanone	<1.1	ug/m3	6.3	1.1	1.52		07/08/19 22:10	591-78-6	
Methylene Chloride	16.2	ug/m3	5.4	1.4	1.52		07/08/19 22:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	1.4J	ug/m3	6.3	0.79	1.52		07/08/19 22:10	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/m3	5.6	1.0	1.52		07/08/19 22:10	1634-04-4	
Naphthalene	2.9J	ug/m3	4.0	2.0	1.52		07/08/19 22:10	91-20-3	
2-Propanol	4.5	ug/m3	3.8	1.1	1.52		07/08/19 22:10	67-63-0	
Propylene	0.51J	ug/m3	0.53	0.22	1.52		07/08/19 22:10	115-07-1	
Styrene	2.6	ug/m3	1.3	0.52	1.52		07/08/19 22:10	100-42-5	
1,1,2,2-Tetrachloroethane	<0.44	ug/m3	1.1	0.44	1.52		07/08/19 22:10	79-34-5	
Tetrachloroethene	241	ug/m3	1.0	0.48	1.52		07/08/19 22:10	127-18-4	
Tetrahydrofuran	<0.40	ug/m3	0.91	0.40	1.52		07/08/19 22:10	109-99-9	
Toluene	3.7	ug/m3	1.2	0.53	1.52		07/08/19 22:10	108-88-3	
1,2,4-Trichlorobenzene	<5.7	ug/m3	11.5	5.7	1.52		07/08/19 22:10	120-82-1	
1,1,1-Trichloroethane	<0.47	ug/m3	1.7	0.47	1.52		07/08/19 22:10	71-55-6	
1,1,2-Trichloroethane	<0.38	ug/m3	1.7	0.38	1.52		07/08/19 22:10	79-00-5	
Trichloroethene	14.2	ug/m3	0.83	0.39	1.52		07/08/19 22:10	79-01-6	
Trichlorofluoromethane	1.3J	ug/m3	1.7	0.56	1.52		07/08/19 22:10	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.86	ug/m3	2.4	0.86	1.52		07/08/19 22:10	76-13-1	
1,2,4-Trimethylbenzene	6.7	ug/m3	1.5	0.69	1.52		07/08/19 22:10	95-63-6	
1,3,5-Trimethylbenzene	2.2	ug/m3	1.5	0.61	1.52		07/08/19 22:10	108-67-8	
Vinyl acetate	<0.41	ug/m3	1.1	0.41	1.52		07/08/19 22:10	108-05-4	
Vinyl chloride	<0.19	ug/m3	0.40	0.19	1.52		07/08/19 22:10	75-01-4	
m&p-Xylene	2.5J	ug/m3	2.7	1.1	1.52		07/08/19 22:10	179601-23-1	
o-Xylene	1.5	ug/m3	1.3	0.52	1.52		07/08/19 22:10	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Apex Companies

Pace Project No.: 10481644

Sample: SV-7 **Lab ID: 10481644003** Collected: 06/28/19 13:28 Received: 07/01/19 11:25 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Acetone	27.7	ug/m3	3.7	1.8	1.52		07/08/19 22:41	67-64-1	
Benzene	0.62	ug/m3	0.49	0.23	1.52		07/08/19 22:41	71-43-2	
Benzyl chloride	<1.8	ug/m3	4.0	1.8	1.52		07/08/19 22:41	100-44-7	
Bromodichloromethane	<0.56	ug/m3	2.1	0.56	1.52		07/08/19 22:41	75-27-4	
Bromoform	<2.2	ug/m3	8.0	2.2	1.52		07/08/19 22:41	75-25-2	
Bromomethane	<0.35	ug/m3	1.2	0.35	1.52		07/08/19 22:41	74-83-9	
1,3-Butadiene	<0.19	ug/m3	0.68	0.19	1.52		07/08/19 22:41	106-99-0	
2-Butanone (MEK)	4.8	ug/m3	4.6	0.56	1.52		07/08/19 22:41	78-93-3	
Carbon disulfide	0.68J	ug/m3	0.96	0.33	1.52		07/08/19 22:41	75-15-0	
Carbon tetrachloride	<0.65	ug/m3	1.9	0.65	1.52		07/08/19 22:41	56-23-5	
Chlorobenzene	<0.42	ug/m3	1.4	0.42	1.52		07/08/19 22:41	108-90-7	
Chloroethane	<0.40	ug/m3	2.0	0.40	1.52		07/08/19 22:41	75-00-3	
Chloroform	<0.30	ug/m3	0.75	0.30	1.52		07/08/19 22:41	67-66-3	
Chloromethane	<0.24	ug/m3	0.64	0.24	1.52		07/08/19 22:41	74-87-3	
Cyclohexane	<0.54	ug/m3	2.7	0.54	1.52		07/08/19 22:41	110-82-7	
Dibromochloromethane	<1.1	ug/m3	2.6	1.1	1.52		07/08/19 22:41	124-48-1	
1,2-Dibromoethane (EDB)	<0.56	ug/m3	1.2	0.56	1.52		07/08/19 22:41	106-93-4	
1,2-Dichlorobenzene	<0.76	ug/m3	1.9	0.76	1.52		07/08/19 22:41	95-50-1	
1,3-Dichlorobenzene	<0.88	ug/m3	1.9	0.88	1.52		07/08/19 22:41	541-73-1	
1,4-Dichlorobenzene	<1.5	ug/m3	4.7	1.5	1.52		07/08/19 22:41	106-46-7	
Dichlorodifluoromethane	2.2	ug/m3	1.5	0.45	1.52		07/08/19 22:41	75-71-8	
1,1-Dichloroethane	<0.34	ug/m3	1.3	0.34	1.52		07/08/19 22:41	75-34-3	
1,2-Dichloroethane	<0.23	ug/m3	0.62	0.23	1.52		07/08/19 22:41	107-06-2	
1,1-Dichloroethene	<0.42	ug/m3	1.2	0.42	1.52		07/08/19 22:41	75-35-4	
cis-1,2-Dichloroethene	0.78J	ug/m3	1.2	0.33	1.52		07/08/19 22:41	156-59-2	
trans-1,2-Dichloroethene	<0.43	ug/m3	1.2	0.43	1.52		07/08/19 22:41	156-60-5	
1,2-Dichloropropane	<0.35	ug/m3	1.4	0.35	1.52		07/08/19 22:41	78-87-5	
cis-1,3-Dichloropropene	<0.46	ug/m3	1.4	0.46	1.52		07/08/19 22:41	10061-01-5	
trans-1,3-Dichloropropene	<0.67	ug/m3	1.4	0.67	1.52		07/08/19 22:41	10061-02-6	
Dichlorotetrafluoroethane	<0.66	ug/m3	2.2	0.66	1.52		07/08/19 22:41	76-14-2	
Ethanol	1690	ug/m3	114	48.1	59.28		07/09/19 11:26	64-17-5	
Ethyl acetate	3.3	ug/m3	1.1	0.29	1.52		07/08/19 22:41	141-78-6	
Ethylbenzene	0.91J	ug/m3	1.3	0.46	1.52		07/08/19 22:41	100-41-4	
4-Ethyltoluene	2.7J	ug/m3	3.8	0.87	1.52		07/08/19 22:41	622-96-8	
n-Heptane	<0.58	ug/m3	1.3	0.58	1.52		07/08/19 22:41	142-82-5	
Hexachloro-1,3-butadiene	<3.0	ug/m3	8.2	3.0	1.52		07/08/19 22:41	87-68-3	
n-Hexane	4.0	ug/m3	1.1	0.47	1.52		07/08/19 22:41	110-54-3	
2-Hexanone	<1.1	ug/m3	6.3	1.1	1.52		07/08/19 22:41	591-78-6	
Methylene Chloride	21.9	ug/m3	5.4	1.4	1.52		07/08/19 22:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.79	ug/m3	6.3	0.79	1.52		07/08/19 22:41	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/m3	5.6	1.0	1.52		07/08/19 22:41	1634-04-4	
Naphthalene	<2.0	ug/m3	4.0	2.0	1.52		07/08/19 22:41	91-20-3	
2-Propanol	63.4	ug/m3	3.8	1.1	1.52		07/08/19 22:41	67-63-0	
Propylene	<0.22	ug/m3	0.53	0.22	1.52		07/08/19 22:41	115-07-1	
Styrene	4.0	ug/m3	1.3	0.52	1.52		07/08/19 22:41	100-42-5	
1,1,2,2-Tetrachloroethane	<0.44	ug/m3	1.1	0.44	1.52		07/08/19 22:41	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Apex Companies
Pace Project No.: 10481644

Sample: SV-7 **Lab ID: 10481644003** Collected: 06/28/19 13:28 Received: 07/01/19 11:25 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Tetrachloroethene	1290	ug/m3	40.8	18.6	59.28		07/09/19 11:26	127-18-4	
Tetrahydrofuran	<0.40	ug/m3	0.91	0.40	1.52		07/08/19 22:41	109-99-9	
Toluene	5.0	ug/m3	1.2	0.53	1.52		07/08/19 22:41	108-88-3	
1,2,4-Trichlorobenzene	<5.7	ug/m3	11.5	5.7	1.52		07/08/19 22:41	120-82-1	
1,1,1-Trichloroethane	<0.47	ug/m3	1.7	0.47	1.52		07/08/19 22:41	71-55-6	
1,1,2-Trichloroethane	<0.38	ug/m3	1.7	0.38	1.52		07/08/19 22:41	79-00-5	
Trichloroethene	18.9	ug/m3	0.83	0.39	1.52		07/08/19 22:41	79-01-6	
Trichlorofluoromethane	1.3J	ug/m3	1.7	0.56	1.52		07/08/19 22:41	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.86	ug/m3	2.4	0.86	1.52		07/08/19 22:41	76-13-1	
1,2,4-Trimethylbenzene	7.0	ug/m3	1.5	0.69	1.52		07/08/19 22:41	95-63-6	
1,3,5-Trimethylbenzene	2.6	ug/m3	1.5	0.61	1.52		07/08/19 22:41	108-67-8	
Vinyl acetate	<0.41	ug/m3	1.1	0.41	1.52		07/08/19 22:41	108-05-4	
Vinyl chloride	<0.19	ug/m3	0.40	0.19	1.52		07/08/19 22:41	75-01-4	
m&p-Xylene	3.2	ug/m3	2.7	1.1	1.52		07/08/19 22:41	179601-23-1	
o-Xylene	1.4	ug/m3	1.3	0.52	1.52		07/08/19 22:41	95-47-6	

Sample: IA-1 **Lab ID: 10481644004** Collected: 06/28/19 13:37 Received: 07/01/19 11:25 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Acetone	31.7	ug/m3	3.6	1.8	1.49		07/08/19 23:11	67-64-1	
Benzene	0.29J	ug/m3	0.48	0.23	1.49		07/08/19 23:11	71-43-2	
Benzyl chloride	<1.8	ug/m3	3.9	1.8	1.49		07/08/19 23:11	100-44-7	
Bromodichloromethane	<0.55	ug/m3	2.0	0.55	1.49		07/08/19 23:11	75-27-4	
Bromoform	<2.1	ug/m3	7.8	2.1	1.49		07/08/19 23:11	75-25-2	
Bromomethane	<0.34	ug/m3	1.2	0.34	1.49		07/08/19 23:11	74-83-9	
1,3-Butadiene	<0.19	ug/m3	0.67	0.19	1.49		07/08/19 23:11	106-99-0	
2-Butanone (MEK)	3.8J	ug/m3	4.5	0.55	1.49		07/08/19 23:11	78-93-3	
Carbon disulfide	<0.33	ug/m3	0.94	0.33	1.49		07/08/19 23:11	75-15-0	
Carbon tetrachloride	<0.64	ug/m3	1.9	0.64	1.49		07/08/19 23:11	56-23-5	
Chlorobenzene	<0.41	ug/m3	1.4	0.41	1.49		07/08/19 23:11	108-90-7	
Chloroethane	<0.39	ug/m3	2.0	0.39	1.49		07/08/19 23:11	75-00-3	
Chloroform	0.87	ug/m3	0.74	0.29	1.49		07/08/19 23:11	67-66-3	
Chloromethane	<0.23	ug/m3	0.63	0.23	1.49		07/08/19 23:11	74-87-3	
Cyclohexane	<0.53	ug/m3	2.6	0.53	1.49		07/08/19 23:11	110-82-7	
Dibromochloromethane	<1.1	ug/m3	2.6	1.1	1.49		07/08/19 23:11	124-48-1	
1,2-Dibromoethane (EDB)	<0.55	ug/m3	1.2	0.55	1.49		07/08/19 23:11	106-93-4	
1,2-Dichlorobenzene	<0.74	ug/m3	1.8	0.74	1.49		07/08/19 23:11	95-50-1	
1,3-Dichlorobenzene	<0.87	ug/m3	1.8	0.87	1.49		07/08/19 23:11	541-73-1	
1,4-Dichlorobenzene	<1.5	ug/m3	4.6	1.5	1.49		07/08/19 23:11	106-46-7	
Dichlorodifluoromethane	2.3	ug/m3	1.5	0.44	1.49		07/08/19 23:11	75-71-8	
1,1-Dichloroethane	<0.34	ug/m3	1.2	0.34	1.49		07/08/19 23:11	75-34-3	
1,2-Dichloroethane	<0.22	ug/m3	0.61	0.22	1.49		07/08/19 23:11	107-06-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Apex Companies

Pace Project No.: 10481644

Sample: IA-1 Lab ID: 10481644004 Collected: 06/28/19 13:37 Received: 07/01/19 11:25 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
1,1-Dichloroethene	<0.41	ug/m3	1.2	0.41	1.49		07/08/19 23:11	75-35-4	
cis-1,2-Dichloroethene	<0.33	ug/m3	1.2	0.33	1.49		07/08/19 23:11	156-59-2	
trans-1,2-Dichloroethene	<0.42	ug/m3	1.2	0.42	1.49		07/08/19 23:11	156-60-5	
1,2-Dichloropropane	<0.34	ug/m3	1.4	0.34	1.49		07/08/19 23:11	78-87-5	
cis-1,3-Dichloropropene	<0.45	ug/m3	1.4	0.45	1.49		07/08/19 23:11	10061-01-5	
trans-1,3-Dichloropropene	<0.66	ug/m3	1.4	0.66	1.49		07/08/19 23:11	10061-02-6	
Dichlorotetrafluoroethane	<0.65	ug/m3	2.1	0.65	1.49		07/08/19 23:11	76-14-2	
Ethanol	16700	ug/m3	85.8	36.3	44.7		07/09/19 11:55	64-17-5	E
Ethyl acetate	10.2	ug/m3	1.1	0.28	1.49		07/08/19 23:11	141-78-6	
Ethylbenzene	<0.45	ug/m3	1.3	0.45	1.49		07/08/19 23:11	100-41-4	
4-Ethyltoluene	<0.85	ug/m3	3.7	0.85	1.49		07/08/19 23:11	622-96-8	
n-Heptane	<0.57	ug/m3	1.2	0.57	1.49		07/08/19 23:11	142-82-5	
Hexachloro-1,3-butadiene	<2.9	ug/m3	8.1	2.9	1.49		07/08/19 23:11	87-68-3	
n-Hexane	<0.46	ug/m3	1.1	0.46	1.49		07/08/19 23:11	110-54-3	
2-Hexanone	<1.1	ug/m3	6.2	1.1	1.49		07/08/19 23:11	591-78-6	
Methylene Chloride	13.8	ug/m3	5.3	1.4	1.49		07/08/19 23:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.77	ug/m3	6.2	0.77	1.49		07/08/19 23:11	108-10-1	
Methyl-tert-butyl ether	<0.99	ug/m3	5.5	0.99	1.49		07/08/19 23:11	1634-04-4	
Naphthalene	<2.0	ug/m3	4.0	2.0	1.49		07/08/19 23:11	91-20-3	
2-Propanol	625	ug/m3	112	31.2	44.7		07/09/19 11:55	67-63-0	
Propylene	<0.21	ug/m3	0.52	0.21	1.49		07/08/19 23:11	115-07-1	
Styrene	<0.51	ug/m3	1.3	0.51	1.49		07/08/19 23:11	100-42-5	
1,1,2,2-Tetrachloroethane	<0.44	ug/m3	1.0	0.44	1.49		07/08/19 23:11	79-34-5	
Tetrachloroethene	5.7	ug/m3	1.0	0.47	1.49		07/08/19 23:11	127-18-4	C8
Tetrahydrofuran	<0.39	ug/m3	0.89	0.39	1.49		07/08/19 23:11	109-99-9	
Toluene	1.4	ug/m3	1.1	0.52	1.49		07/08/19 23:11	108-88-3	
1,2,4-Trichlorobenzene	<5.5	ug/m3	11.2	5.5	1.49		07/08/19 23:11	120-82-1	
1,1,1-Trichloroethane	<0.46	ug/m3	1.7	0.46	1.49		07/08/19 23:11	71-55-6	
1,1,2-Trichloroethane	<0.37	ug/m3	1.7	0.37	1.49		07/08/19 23:11	79-00-5	
Trichloroethene	<0.38	ug/m3	0.81	0.38	1.49		07/08/19 23:11	79-01-6	
Trichlorofluoromethane	1.2J	ug/m3	1.7	0.55	1.49		07/08/19 23:11	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.84	ug/m3	2.3	0.84	1.49		07/08/19 23:11	76-13-1	
1,2,4-Trimethylbenzene	<0.67	ug/m3	1.5	0.67	1.49		07/08/19 23:11	95-63-6	
1,3,5-Trimethylbenzene	<0.59	ug/m3	1.5	0.59	1.49		07/08/19 23:11	108-67-8	
Vinyl acetate	<0.40	ug/m3	1.1	0.40	1.49		07/08/19 23:11	108-05-4	
Vinyl chloride	<0.19	ug/m3	0.39	0.19	1.49		07/08/19 23:11	75-01-4	
m&p-Xylene	2.3J	ug/m3	2.6	1.0	1.49		07/08/19 23:11	179601-23-1	
o-Xylene	0.75J	ug/m3	1.3	0.51	1.49		07/08/19 23:11	95-47-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Apex Companies
Pace Project No.: 10481644

QC Batch: 618069 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10481644001, 10481644002, 10481644003, 10481644004

METHOD BLANK: 3337964 Matrix: Air
Associated Lab Samples: 10481644001, 10481644002, 10481644003, 10481644004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.15	0.56	07/08/19 12:30	
1,1,2,2-Tetrachloroethane	ug/m3	<0.15	0.35	07/08/19 12:30	
1,1,2-Trichloroethane	ug/m3	<0.12	0.55	07/08/19 12:30	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.28	0.78	07/08/19 12:30	
1,1-Dichloroethane	ug/m3	<0.11	0.41	07/08/19 12:30	
1,1-Dichloroethene	ug/m3	<0.14	0.40	07/08/19 12:30	
1,2,4-Trichlorobenzene	ug/m3	<1.9	3.8	07/08/19 12:30	
1,2,4-Trimethylbenzene	ug/m3	<0.23	0.50	07/08/19 12:30	
1,2-Dibromoethane (EDB)	ug/m3	<0.18	0.39	07/08/19 12:30	
1,2-Dichlorobenzene	ug/m3	<0.25	0.61	07/08/19 12:30	
1,2-Dichloroethane	ug/m3	<0.075	0.21	07/08/19 12:30	
1,2-Dichloropropane	ug/m3	<0.12	0.47	07/08/19 12:30	
1,3,5-Trimethylbenzene	ug/m3	<0.20	0.50	07/08/19 12:30	
1,3-Butadiene	ug/m3	<0.064	0.22	07/08/19 12:30	
1,3-Dichlorobenzene	ug/m3	<0.29	0.61	07/08/19 12:30	
1,4-Dichlorobenzene	ug/m3	<0.50	1.5	07/08/19 12:30	
2-Butanone (MEK)	ug/m3	<0.18	1.5	07/08/19 12:30	
2-Hexanone	ug/m3	<0.37	2.1	07/08/19 12:30	
2-Propanol	ug/m3	<0.35	1.2	07/08/19 12:30	
4-Ethyltoluene	ug/m3	<0.28	1.2	07/08/19 12:30	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.26	2.1	07/08/19 12:30	
Acetone	ug/m3	<0.60	1.2	07/08/19 12:30	
Benzene	ug/m3	<0.076	0.16	07/08/19 12:30	
Benzyl chloride	ug/m3	<0.60	1.3	07/08/19 12:30	
Bromodichloromethane	ug/m3	<0.18	0.68	07/08/19 12:30	
Bromoform	ug/m3	<0.71	2.6	07/08/19 12:30	
Bromomethane	ug/m3	<0.11	0.39	07/08/19 12:30	
Carbon disulfide	ug/m3	<0.11	0.32	07/08/19 12:30	
Carbon tetrachloride	ug/m3	<0.21	0.64	07/08/19 12:30	
Chlorobenzene	ug/m3	<0.14	0.47	07/08/19 12:30	
Chloroethane	ug/m3	<0.13	0.67	07/08/19 12:30	
Chloroform	ug/m3	<0.098	0.25	07/08/19 12:30	
Chloromethane	ug/m3	<0.078	0.21	07/08/19 12:30	
cis-1,2-Dichloroethene	ug/m3	<0.11	0.40	07/08/19 12:30	
cis-1,3-Dichloropropene	ug/m3	<0.15	0.46	07/08/19 12:30	
Cyclohexane	ug/m3	<0.18	0.88	07/08/19 12:30	
Dibromochloromethane	ug/m3	<0.36	0.86	07/08/19 12:30	
Dichlorodifluoromethane	ug/m3	<0.15	0.50	07/08/19 12:30	
Dichlorotetrafluoroethane	ug/m3	<0.22	0.71	07/08/19 12:30	
Ethanol	ug/m3	<0.41	0.96	07/08/19 12:30	
Ethyl acetate	ug/m3	<0.095	0.37	07/08/19 12:30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: Apex Companies

Pace Project No.: 10481644

METHOD BLANK: 3337964

Matrix: Air

Associated Lab Samples: 10481644001, 10481644002, 10481644003, 10481644004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	<0.15	0.44	07/08/19 12:30	
Hexachloro-1,3-butadiene	ug/m3	<0.98	2.7	07/08/19 12:30	
m&p-Xylene	ug/m3	<0.35	0.88	07/08/19 12:30	
Methyl-tert-butyl ether	ug/m3	<0.33	1.8	07/08/19 12:30	
Methylene Chloride	ug/m3	<0.47	1.8	07/08/19 12:30	
n-Heptane	ug/m3	<0.19	0.42	07/08/19 12:30	
n-Hexane	ug/m3	<0.16	0.36	07/08/19 12:30	
Naphthalene	ug/m3	<0.66	1.3	07/08/19 12:30	
o-Xylene	ug/m3	<0.17	0.44	07/08/19 12:30	
Propylene	ug/m3	<0.072	0.18	07/08/19 12:30	
Styrene	ug/m3	<0.17	0.43	07/08/19 12:30	
Tetrachloroethene	ug/m3	<0.16	0.34	07/08/19 12:30	
Tetrahydrofuran	ug/m3	<0.13	0.30	07/08/19 12:30	
Toluene	ug/m3	<0.18	0.38	07/08/19 12:30	
trans-1,2-Dichloroethene	ug/m3	<0.14	0.40	07/08/19 12:30	
trans-1,3-Dichloropropene	ug/m3	<0.22	0.46	07/08/19 12:30	
Trichloroethene	ug/m3	<0.13	0.27	07/08/19 12:30	
Trichlorofluoromethane	ug/m3	<0.18	0.57	07/08/19 12:30	
Vinyl acetate	ug/m3	<0.14	0.36	07/08/19 12:30	
Vinyl chloride	ug/m3	<0.063	0.13	07/08/19 12:30	

LABORATORY CONTROL SAMPLE: 3337965

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	56.6	60.9	108	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	86.0	123	70-132	
1,1,2-Trichloroethane	ug/m3	58.2	66.3	114	70-130	
1,1,2-Trichlorotrifluoroethane	ug/m3	84.9	84.8	100	70-130	
1,1-Dichloroethane	ug/m3	42.4	44.5	105	70-130	
1,1-Dichloroethene	ug/m3	43.5	43.8	101	70-130	
1,2,4-Trichlorobenzene	ug/m3	74.7	81.6	109	56-130	
1,2,4-Trimethylbenzene	ug/m3	53	63.5	120	70-134	
1,2-Dibromoethane (EDB)	ug/m3	83.6	85.5	102	70-130	
1,2-Dichlorobenzene	ug/m3	59.9	75.6	126	70-132	
1,2-Dichloroethane	ug/m3	42.8	45.0	105	70-130	
1,2-Dichloropropane	ug/m3	48.4	55.4	114	70-130	
1,3,5-Trimethylbenzene	ug/m3	53.5	55.2	103	70-132	
1,3-Butadiene	ug/m3	22.5	24.7	110	65-130	
1,3-Dichlorobenzene	ug/m3	65.4	76.1	116	70-137	
1,4-Dichlorobenzene	ug/m3	65.4	80.0	122	70-134	
2-Butanone (MEK)	ug/m3	32.4	26.3	81	70-130	
2-Hexanone	ug/m3	42.9	47.7	111	70-135	
2-Propanol	ug/m3	26.5	31.2	118	68-130	
4-Ethyltoluene	ug/m3	52	56.6	109	70-138	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Apex Companies

Pace Project No.: 10481644

LABORATORY CONTROL SAMPLE: 3337965

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	42	46.1	110	70-131	
Acetone	ug/m3	26.6	24.0	90	67-130	
Benzene	ug/m3	34.4	34.7	101	70-130	
Benzyl chloride	ug/m3	56.3	53.5	95	70-130	
Bromodichloromethane	ug/m3	69.5	77.0	111	70-130	
Bromoform	ug/m3	97.7	123	126	70-132	
Bromomethane	ug/m3	40.6	46.0	113	69-130	
Carbon disulfide	ug/m3	32.9	35.6	108	56-137	
Carbon tetrachloride	ug/m3	65.9	67.4	102	66-131	
Chlorobenzene	ug/m3	49.6	51.1	103	70-130	
Chloroethane	ug/m3	26.8	26.1	97	70-130	
Chloroform	ug/m3	52.6	54.7	104	70-130	
Chloromethane	ug/m3	22.2	21.0	94	66-130	
cis-1,2-Dichloroethene	ug/m3	41.9	46.0	110	70-130	
cis-1,3-Dichloropropene	ug/m3	48	48.9	102	70-133	
Cyclohexane	ug/m3	35.3	38.5	109	68-132	
Dibromochloromethane	ug/m3	90	100	111	70-130	
Dichlorodifluoromethane	ug/m3	52.8	51.4	97	70-130	
Dichlorotetrafluoroethane	ug/m3	74.6	75.2	101	70-130	
Ethanol	ug/m3	21.1	22.9	109	68-133	
Ethyl acetate	ug/m3	38.8	39.4	102	69-130	
Ethylbenzene	ug/m3	45.5	51.4	113	67-131	
Hexachloro-1,3-butadiene	ug/m3	108	123	113	66-137	
m&p-Xylene	ug/m3	45.9	57.6	125	70-132	
Methyl-tert-butyl ether	ug/m3	37.4	40.8	109	70-130	
Methylene Chloride	ug/m3	38.1	37.0	97	65-130	
n-Heptane	ug/m3	43.7	45.9	105	65-130	
n-Hexane	ug/m3	37.6	37.5	100	66-130	
Naphthalene	ug/m3	52.7	54.8	104	56-130	
o-Xylene	ug/m3	44.1	50.2	114	70-130	
Propylene	ug/m3	19.2	17.8	92	67-130	
Styrene	ug/m3	44.2	54.5	123	69-136	
Tetrachloroethene	ug/m3	70.3	77.8	111	70-130	
Tetrahydrofuran	ug/m3	30.3	34.1	113	68-131	
Toluene	ug/m3	39.4	42.7	108	70-130	
trans-1,2-Dichloroethene	ug/m3	41.5	45.9	111	70-130	
trans-1,3-Dichloropropene	ug/m3	44.8	50.2	112	70-134	
Trichloroethene	ug/m3	56.3	61.1	109	70-130	
Trichlorofluoromethane	ug/m3	58.8	60.2	102	65-130	
Vinyl acetate	ug/m3	35.1	41.1	117	61-133	
Vinyl chloride	ug/m3	28.1	27.2	97	70-130	

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QUALITY CONTROL DATA

Project: Apex Companies

Pace Project No.: 10481644

SAMPLE DUPLICATE: 3338613

Parameter	Units	7095313002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.52	<0.52			25
1,1,2,2-Tetrachloroethane	ug/m3	<0.49	<0.49			25
1,1,2-Trichloroethane	ug/m3	<0.42	<0.42			25
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.95	<0.95			25
1,1-Dichloroethane	ug/m3	<0.38	<0.38			25
1,1-Dichloroethene	ug/m3	<0.46	<0.46			25
1,2,4-Trichlorobenzene	ug/m3	<6.2	<6.2			25
1,2,4-Trimethylbenzene	ug/m3	<0.76	<0.76			25
1,2-Dibromoethane (EDB)	ug/m3	<0.61	<0.61			25
1,2-Dichlorobenzene	ug/m3	<0.84	<0.84			25
1,2-Dichloroethane	ug/m3	<0.25	<0.25			25
1,2-Dichloropropane	ug/m3	<0.39	<0.39			25
1,3,5-Trimethylbenzene	ug/m3	<0.67	<0.67			25
1,3-Butadiene	ug/m3	<0.22	<0.22			25
1,3-Dichlorobenzene	ug/m3	<0.98	<0.98			25
1,4-Dichlorobenzene	ug/m3	<1.7	<1.7			25
2-Butanone (MEK)	ug/m3	<0.62	<0.62			25
2-Hexanone	ug/m3	<1.3	<1.3			25
2-Propanol	ug/m3	<1.2	<1.2			25
4-Ethyltoluene	ug/m3	<0.96	<0.96			25
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.87	<0.87			25
Acetone	ug/m3	5.6	5.3	6		25
Benzene	ug/m3	0.27J	0.34J			25
Benzyl chloride	ug/m3	<2.0	<2.0			25
Bromodichloromethane	ug/m3	<0.61	<0.61			25
Bromoform	ug/m3	<2.4	<2.4			25
Bromomethane	ug/m3	<0.38	<0.38			25
Carbon disulfide	ug/m3	<0.37	<0.37			25
Carbon tetrachloride	ug/m3	<0.72	<0.72			25
Chlorobenzene	ug/m3	<0.46	<0.46			25
Chloroethane	ug/m3	<0.44	<0.44			25
Chloroform	ug/m3	<0.33	<0.33			25
Chloromethane	ug/m3	0.64J	0.65J			25
cis-1,2-Dichloroethene	ug/m3	<0.37	<0.37			25
cis-1,3-Dichloropropene	ug/m3	<0.51	<0.51			25
Cyclohexane	ug/m3	<0.59	<0.59			25
Dibromochloromethane	ug/m3	<1.2	<1.2			25
Dichlorodifluoromethane	ug/m3	2.1	1.9	7		25
Dichlorotetrafluoroethane	ug/m3	<0.73	<0.73			25
Ethanol	ug/m3	2.9J	2.5J			25
Ethyl acetate	ug/m3	<0.32	<0.32			25
Ethylbenzene	ug/m3	<0.51	<0.51			25
Hexachloro-1,3-butadiene	ug/m3	<3.3	<3.3			25
m&p-Xylene	ug/m3	<1.2	<1.2			25
Methyl-tert-butyl ether	ug/m3	<1.1	<1.1			25
Methylene Chloride	ug/m3	12.6	13.2	5		25
n-Heptane	ug/m3	<0.64	<0.64			25

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Apex Companies

Pace Project No.: 10481644

SAMPLE DUPLICATE: 3338613

Parameter	Units	7095313002 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	1.3	1.3	3	25	
Naphthalene	ug/m3	<2.2	<2.2		25	
o-Xylene	ug/m3	<0.58	<0.58		25	
Propylene	ug/m3	<0.24	<0.24		25	
Styrene	ug/m3	<0.58	<0.58		25	
Tetrachloroethene	ug/m3	<0.53	<0.53		25	
Tetrahydrofuran	ug/m3	<0.44	<0.44		25	
Toluene	ug/m3	<0.59	0.63J		25	
trans-1,2-Dichloroethene	ug/m3	<0.48	<0.48		25	
trans-1,3-Dichloropropene	ug/m3	<0.74	<0.74		25	
Trichloroethene	ug/m3	<0.43	<0.43		25	
Trichlorofluoromethane	ug/m3	1.3J	1.2J		25	
Vinyl acetate	ug/m3	<0.45	<0.45		25	
Vinyl chloride	ug/m3	<0.21	<0.21		25	

SAMPLE DUPLICATE: 3338614

Parameter	Units	7095313001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.48	<0.48		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.45	<0.45		25	
1,1,2-Trichloroethane	ug/m3	<0.39	<0.39		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	2.6	2.6	2	25	
1,1-Dichloroethane	ug/m3	<0.35	<0.35		25	
1,1-Dichloroethene	ug/m3	<0.42	<0.42		25	
1,2,4-Trichlorobenzene	ug/m3	<5.8	<5.8		25	
1,2,4-Trimethylbenzene	ug/m3	<0.70	<0.70		25	
1,2-Dibromoethane (EDB)	ug/m3	<0.57	<0.57		25	
1,2-Dichlorobenzene	ug/m3	<0.77	<0.77		25	
1,2-Dichloroethane	ug/m3	<0.23	<0.23		25	
1,2-Dichloropropane	ug/m3	<0.36	<0.36		25	
1,3,5-Trimethylbenzene	ug/m3	<0.62	<0.62		25	
1,3-Butadiene	ug/m3	<0.20	<0.20		25	
1,3-Dichlorobenzene	ug/m3	<0.90	<0.90		25	
1,4-Dichlorobenzene	ug/m3	<1.6	<1.6		25	
2-Butanone (MEK)	ug/m3	3.5J	<0.57		25	
2-Hexanone	ug/m3	<1.2	<1.2		25	
2-Propanol	ug/m3	<1.1	<1.1		25	
4-Ethyltoluene	ug/m3	<0.88	<0.88		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.80	<0.80		25	
Acetone	ug/m3	6.2	6.4	4	25	
Benzene	ug/m3	<0.24	<0.24		25	
Benzyl chloride	ug/m3	<1.9	<1.9		25	
Bromodichloromethane	ug/m3	<0.57	<0.57		25	
Bromoform	ug/m3	<2.2	<2.2		25	
Bromomethane	ug/m3	<0.35	<0.35		25	

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QUALITY CONTROL DATA

Project: Apex Companies

Pace Project No.: 10481644

SAMPLE DUPLICATE: 3338614

Parameter	Units	7095313001 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon disulfide	ug/m3	1.8	1.7	5	25	
Carbon tetrachloride	ug/m3	<0.66	<0.66		25	
Chlorobenzene	ug/m3	<0.43	<0.43		25	
Chloroethane	ug/m3	<0.40	<0.40		25	
Chloroform	ug/m3	<0.30	<0.30		25	
Chloromethane	ug/m3	0.66	0.70	6	25	
cis-1,2-Dichloroethene	ug/m3	<0.34	<0.34		25	
cis-1,3-Dichloropropene	ug/m3	<0.47	<0.47		25	
Cyclohexane	ug/m3	<0.55	<0.55		25	
Dibromochloromethane	ug/m3	<1.1	<1.1		25	
Dichlorodifluoromethane	ug/m3	2.1	2.2	2	25	
Dichlorotetrafluoroethane	ug/m3	<0.68	<0.68		25	
Ethanol	ug/m3	3.9	4.5	15	25	
Ethyl acetate	ug/m3	<0.29	<0.29		25	
Ethylbenzene	ug/m3	<0.47	<0.47		25	
Hexachloro-1,3-butadiene	ug/m3	<3.1	<3.1		25	
m&p-Xylene	ug/m3	<1.1	<1.1		25	
Methyl-tert-butyl ether	ug/m3	<1.0	<1.0		25	
Methylene Chloride	ug/m3	12.2	11.6	5	25	
n-Heptane	ug/m3	<0.59	<0.59		25	
n-Hexane	ug/m3	1.5	1.1	24	25	
Naphthalene	ug/m3	<2.0	<2.0		25	
o-Xylene	ug/m3	<0.53	<0.53		25	
Propylene	ug/m3	<0.22	<0.22		25	
Styrene	ug/m3	<0.53	<0.53		25	
Tetrachloroethene	ug/m3	<0.49	<0.49		25	
Tetrahydrofuran	ug/m3	<0.40	<0.40		25	
Toluene	ug/m3	<0.54	<0.54		25	
trans-1,2-Dichloroethene	ug/m3	<0.44	<0.44		25	
trans-1,3-Dichloropropene	ug/m3	<0.68	<0.68		25	
Trichloroethene	ug/m3	<0.40	<0.40		25	
Trichlorofluoromethane	ug/m3	1.1J	1.1J		25	
Vinyl acetate	ug/m3	<0.42	<0.42		25	
Vinyl chloride	ug/m3	<0.20	<0.20		25	

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QUALIFIERS

Project: Apex Companies

Pace Project No.: 10481644

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

C8 Result may be biased high due to carryover from previously analyzed sample.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Apex Companies

Pace Project No.: 10481644

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10481644001	SV-1	TO-15	618069		
10481644002	SV-2	TO-15	618069		
10481644003	SV-7	TO-15	618069		
10481644004	IA-1	TO-15	618069		

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AIR: CHAIN-OF-CUSTODY /

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant

WO#: 10481644



10481644

38683

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: APEX Companies	Report To: Snewlin @apexlos.com	Attention: Snewlin @apexlos.com
Address: 300 S Wacker Dr STE 630	Copy To: Ammed.ALI @apexlos.com	Company Name:
Email To: snewlin@apexlos.com	Purchase Order No.:	Address:
Phone: 847 687 8095	Project Name: FRANKLIN CTR.	Pace Quote Reference:
Requested Due Date/TAI:	Project Number: PECO_2017-101	Pace Project Manager/Sales Rep.
		Pace Profile #: 37797

Program

UST Superfund Emissions Clean Air Act

Voluntary Clean Up Dry Clean RCRA Other

Location of Sampling by State _____

Reporting Units
 ug/m³ _____ mg/m³ _____
 PPBV _____ PPMV _____
 Other _____

Report Level II. ___ III. ___ IV. ___ Other _____

ITEM #	Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Codes		COLLECTED				Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method:	Pace Lab ID
		MEDIA	CODE	COMPOSITE START		COMPOSITE - END/GRAB							
		MEDIA	CODE	DATE	TIME	DATE	TIME						
1	SV-1	6LL	0	6/28	12:50	6/28	13:27	30	4	0056	2238	X	001
2	SV-2	04	0	12:51			13:27	28	4	0617	2245		002
3	SV-3	0	0	12:53			13:28	27	3	0062	2233		003
4	IA-1	0	0	12:50			13:27	29	4	1037	2204		004
5													
6													
7													
8													
9													
10													
11													
12													

Comments :	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Ammed Ali / Apex	6/28	14:14	Mark S / Pace	7-1-19	11:25 AM	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
							Y/N	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: _____ DATE Signed (MM / DD / YY)

ORIGINAL

Page 19 of 20

Air Sample Condition Upon Receipt Client Name: APEX Project #: **WO#: 10481644**

Courier: Fed Ex UPS USPS Client
 Pace Speedee Commercial See Exception
 Tracking Number: 10B3 0278 2622

PM: CT1 Due Date: **07/09/19**
 CLIENT: **Apex CO LLC**

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No
 Packing Material: Bubble Wrap Bubble Bags Foam None Tin Can Other: _____ Temp Blank rec: Yes No
 Temp. (TO17 and TO13 samples only) (°C): _____ Corrected Temp (°C): _____ Thermometer Used: G87A9170600254
 G87A9155100842
 Temp should be above freezing to 6°C Correction Factor: _____ Date & Initials of Person Examining Contents: 7-2-19 WAI
 Type of ice Received Blue Wet None

		Comments:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Media: <u>Air Can</u> Airbag Filter TDT Passive		11. Individually Certified Cans Y <u>N</u> (list which samples)
Is sufficient information available to reconcile samples to the COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12. <u>SV-3 is on COC but SV-7 is on container.</u>
Do cans need to be pressurized (3C and ASTM 1946 DO NOT PRESSURIZE)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13.

Samples Received:					Pressure Gauge # <input type="checkbox"/> 10AIR34 <input type="checkbox"/> 10AIR35				
Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
SV-1	56	2238	-2.5	+5					
SV-2	617	2245	-3.5	n					
SV-3	62	2233	-3.5	n					
IA-1	1037	2204	-3	n					

CLIENT NOTIFICATION/RESOLUTION Field Data Required? Yes No
 Person Contacted: Ahmed Ali Date/Time: 7/2/19
 Comments/Resolution: sample 003 is SV-7, can tag was correct. Samples collected in WI

Project Manager Review: Carolynne Trust Date: 7/3/19

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

August 15, 2019

Steve Newlin
Apex Companies, LLC
300 South Wacker Drive
Suite 630
Chicago, IL 60606

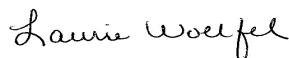
RE: Project: PECO-2017-101 FRANKLIN
Pace Project No.: 40192658

Dear Steve Newlin:

Enclosed are the analytical results for sample(s) received by the laboratory on August 08, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Laurie Woelfel
laurie.woelfel@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: PECO-2017-101 FRANKLIN

Pace Project No.: 40192658

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: PECO-2017-101 FRANKLIN

Pace Project No.: 40192658

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40192658001	HA-1	Solid	08/06/19 15:20	08/08/19 09:00
40192658002	HA-2	Solid	08/06/19 15:30	08/08/19 09:00
40192658003	HA-3	Solid	08/06/19 15:45	08/08/19 09:00

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SAMPLE ANALYTE COUNT

Project: PECO-2017-101 FRANKLIN
Pace Project No.: 40192658

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40192658001	HA-1	EPA 8260	HNW	64	PASI-G
40192658002	HA-2	EPA 8260	HNW	64	PASI-G
40192658003	HA-3	EPA 8260	HNW	64	PASI-G

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PECO-2017-101 FRANKLIN

Pace Project No.: 40192658

Sample: HA-1 Lab ID: 40192658001 Collected: 08/06/19 15:20 Received: 08/08/19 09:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035 Low Level		Analytical Method: EPA 8260 Preparation Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<1.8	ug/kg	6.1	1.8	1	08/15/19 05:00	08/15/19 13:13	630-20-6	
1,1,1-Trichloroethane	<2.5	ug/kg	8.2	2.5	1	08/15/19 05:00	08/15/19 13:13	71-55-6	
1,1,2,2-Tetrachloroethane	<3.8	ug/kg	12.6	3.8	1	08/15/19 05:00	08/15/19 13:13	79-34-5	
1,1,2-Trichloroethane	<2.4	ug/kg	7.8	2.4	1	08/15/19 05:00	08/15/19 13:13	79-00-5	
1,1-Dichloroethane	<3.1	ug/kg	10.4	3.1	1	08/15/19 05:00	08/15/19 13:13	75-34-3	
1,1-Dichloroethene	<2.6	ug/kg	8.7	2.6	1	08/15/19 05:00	08/15/19 13:13	75-35-4	
1,1-Dichloropropene	<2.4	ug/kg	8.1	2.4	1	08/15/19 05:00	08/15/19 13:13	563-58-6	
1,2,3-Trichlorobenzene	<1.8	ug/kg	6.0	1.8	1	08/15/19 05:00	08/15/19 13:13	87-61-6	
1,2,3-Trichloropropane	<2.9	ug/kg	9.8	2.9	1	08/15/19 05:00	08/15/19 13:13	96-18-4	
1,2,4-Trichlorobenzene	<1.8	ug/kg	6.1	1.8	1	08/15/19 05:00	08/15/19 13:13	120-82-1	
1,2,4-Trimethylbenzene	<2.1	ug/kg	7.1	2.1	1	08/15/19 05:00	08/15/19 13:13	95-63-6	
1,2-Dibromo-3-chloropropane	<4.5	ug/kg	15.1	4.5	1	08/15/19 05:00	08/15/19 13:13	96-12-8	
1,2-Dibromoethane (EDB)	<0.27	ug/kg	0.89	0.27	1	08/15/19 05:00	08/15/19 13:13	106-93-4	
1,2-Dichlorobenzene	<1.9	ug/kg	6.2	1.9	1	08/15/19 05:00	08/15/19 13:13	95-50-1	
1,2-Dichloroethane	<0.31	ug/kg	1.0	0.31	1	08/15/19 05:00	08/15/19 13:13	107-06-2	
1,2-Dichloropropane	<2.0	ug/kg	6.7	2.0	1	08/15/19 05:00	08/15/19 13:13	78-87-5	
1,3,5-Trimethylbenzene	<2.3	ug/kg	7.8	2.3	1	08/15/19 05:00	08/15/19 13:13	108-67-8	
1,3-Dichlorobenzene	<2.1	ug/kg	7.0	2.1	1	08/15/19 05:00	08/15/19 13:13	541-73-1	
1,3-Dichloropropane	<1.7	ug/kg	5.6	1.7	1	08/15/19 05:00	08/15/19 13:13	142-28-9	
1,4-Dichlorobenzene	<2.2	ug/kg	7.4	2.2	1	08/15/19 05:00	08/15/19 13:13	106-46-7	
2,2-Dichloropropane	<2.5	ug/kg	8.3	2.5	1	08/15/19 05:00	08/15/19 13:13	594-20-7	
2-Chlorotoluene	<2.5	ug/kg	8.2	2.5	1	08/15/19 05:00	08/15/19 13:13	95-49-8	
4-Chlorotoluene	<2.2	ug/kg	7.3	2.2	1	08/15/19 05:00	08/15/19 13:13	106-43-4	
Benzene	<2.1	ug/kg	6.9	2.1	1	08/15/19 05:00	08/15/19 13:13	71-43-2	
Bromobenzene	<2.0	ug/kg	6.5	2.0	1	08/15/19 05:00	08/15/19 13:13	108-86-1	
Bromochloromethane	<2.7	ug/kg	8.8	2.7	1	08/15/19 05:00	08/15/19 13:13	74-97-5	
Bromodichloromethane	<1.9	ug/kg	6.3	1.9	1	08/15/19 05:00	08/15/19 13:13	75-27-4	
Bromoform	<6.2	ug/kg	20.6	6.2	1	08/15/19 05:00	08/15/19 13:13	75-25-2	
Bromomethane	<4.6	ug/kg	15.4	4.6	1	08/15/19 05:00	08/15/19 13:13	74-83-9	
Carbon tetrachloride	<2.4	ug/kg	8.0	2.4	1	08/15/19 05:00	08/15/19 13:13	56-23-5	
Chlorobenzene	<2.2	ug/kg	7.4	2.2	1	08/15/19 05:00	08/15/19 13:13	108-90-7	
Chloroethane	<2.8	ug/kg	9.2	2.8	1	08/15/19 05:00	08/15/19 13:13	75-00-3	
Chloroform	<2.5	ug/kg	8.3	2.5	1	08/15/19 05:00	08/15/19 13:13	67-66-3	
Chloromethane	4.4J	ug/kg	6.3	1.9	1	08/15/19 05:00	08/15/19 13:13	74-87-3	
Dibromochloromethane	<1.9	ug/kg	6.5	1.9	1	08/15/19 05:00	08/15/19 13:13	124-48-1	
Dibromomethane	<2.3	ug/kg	7.5	2.3	1	08/15/19 05:00	08/15/19 13:13	74-95-3	
Dichlorodifluoromethane	<2.0	ug/kg	6.7	2.0	1	08/15/19 05:00	08/15/19 13:13	75-71-8	
Diisopropyl ether	<1.7	ug/kg	5.7	1.7	1	08/15/19 05:00	08/15/19 13:13	108-20-3	
Ethylbenzene	<2.6	ug/kg	8.8	2.6	1	08/15/19 05:00	08/15/19 13:13	100-41-4	
Hexachloro-1,3-butadiene	<3.1	ug/kg	10.3	3.1	1	08/15/19 05:00	08/15/19 13:13	87-68-3	
Isopropylbenzene (Cumene)	<2.2	ug/kg	7.4	2.2	1	08/15/19 05:00	08/15/19 13:13	98-82-8	
Methyl-tert-butyl ether	<3.2	ug/kg	10.5	3.2	1	08/15/19 05:00	08/15/19 13:13	1634-04-4	
Methylene Chloride	<2.1	ug/kg	7.1	2.1	1	08/15/19 05:00	08/15/19 13:13	75-09-2	
Naphthalene	<3.1	ug/kg	10.5	3.1	1	08/15/19 05:00	08/15/19 13:13	91-20-3	
Styrene	<9.1	ug/kg	30.4	9.1	1	08/15/19 05:00	08/15/19 13:13	100-42-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PECO-2017-101 FRANKLIN

Pace Project No.: 40192658

Sample: HA-1 **Lab ID:** 40192658001 Collected: 08/06/19 15:20 Received: 08/08/19 09:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035 Low Level		Analytical Method: EPA 8260 Preparation Method: EPA 8260							
Tetrachloroethene	<3.7	ug/kg	12.5	3.7	1	08/15/19 05:00	08/15/19 13:13	127-18-4	
Toluene	<2.3	ug/kg	7.8	2.3	1	08/15/19 05:00	08/15/19 13:13	108-88-3	
Trichloroethene	<2.3	ug/kg	7.8	2.3	1	08/15/19 05:00	08/15/19 13:13	79-01-6	
Trichlorofluoromethane	<3.4	ug/kg	11.2	3.4	1	08/15/19 05:00	08/15/19 13:13	75-69-4	
Vinyl chloride	<3.7	ug/kg	12.4	3.7	1	08/15/19 05:00	08/15/19 13:13	75-01-4	
cis-1,2-Dichloroethene	<3.2	ug/kg	10.8	3.2	1	08/15/19 05:00	08/15/19 13:13	156-59-2	
cis-1,3-Dichloropropene	<4.3	ug/kg	14.5	4.3	1	08/15/19 05:00	08/15/19 13:13	10061-01-5	
m&p-Xylene	<4.8	ug/kg	15.9	4.8	1	08/15/19 05:00	08/15/19 13:13	179601-23-1	
n-Butylbenzene	<3.3	ug/kg	11.0	3.3	1	08/15/19 05:00	08/15/19 13:13	104-51-8	
n-Propylbenzene	<2.7	ug/kg	9.0	2.7	1	08/15/19 05:00	08/15/19 13:13	103-65-1	
o-Xylene	<1.8	ug/kg	6.1	1.8	1	08/15/19 05:00	08/15/19 13:13	95-47-6	
p-Isopropyltoluene	<2.9	ug/kg	9.7	2.9	1	08/15/19 05:00	08/15/19 13:13	99-87-6	
sec-Butylbenzene	<2.7	ug/kg	9.1	2.7	1	08/15/19 05:00	08/15/19 13:13	135-98-8	
tert-Butylbenzene	<2.3	ug/kg	7.7	2.3	1	08/15/19 05:00	08/15/19 13:13	98-06-6	
trans-1,2-Dichloroethene	<2.3	ug/kg	7.5	2.3	1	08/15/19 05:00	08/15/19 13:13	156-60-5	
trans-1,3-Dichloropropene	<1.6	ug/kg	5.4	1.6	1	08/15/19 05:00	08/15/19 13:13	10061-02-6	
Surrogates									
Dibromofluoromethane (S)	116	%	73-142		1	08/15/19 05:00	08/15/19 13:13	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1	08/15/19 05:00	08/15/19 13:13	2037-26-5	
4-Bromofluorobenzene (S)	73	%	68-130		1	08/15/19 05:00	08/15/19 13:13	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PECO-2017-101 FRANKLIN

Pace Project No.: 40192658

Sample: HA-2 **Lab ID: 40192658002** Collected: 08/06/19 15:30 Received: 08/08/19 09:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035 Low Level									
Analytical Method: EPA 8260 Preparation Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<2.1	ug/kg	6.9	2.1	1	08/15/19 05:00	08/15/19 13:35	630-20-6	
1,1,1-Trichloroethane	<2.8	ug/kg	9.4	2.8	1	08/15/19 05:00	08/15/19 13:35	71-55-6	
1,1,2,2-Tetrachloroethane	<4.3	ug/kg	14.4	4.3	1	08/15/19 05:00	08/15/19 13:35	79-34-5	
1,1,2-Trichloroethane	<2.7	ug/kg	8.9	2.7	1	08/15/19 05:00	08/15/19 13:35	79-00-5	
1,1-Dichloroethane	<3.6	ug/kg	11.9	3.6	1	08/15/19 05:00	08/15/19 13:35	75-34-3	
1,1-Dichloroethene	<3.0	ug/kg	9.9	3.0	1	08/15/19 05:00	08/15/19 13:35	75-35-4	
1,1-Dichloropropene	<2.7	ug/kg	9.2	2.7	1	08/15/19 05:00	08/15/19 13:35	563-58-6	
1,2,3-Trichlorobenzene	<2.1	ug/kg	6.8	2.1	1	08/15/19 05:00	08/15/19 13:35	87-61-6	
1,2,3-Trichloropropane	<3.3	ug/kg	11.1	3.3	1	08/15/19 05:00	08/15/19 13:35	96-18-4	
1,2,4-Trichlorobenzene	<2.1	ug/kg	6.9	2.1	1	08/15/19 05:00	08/15/19 13:35	120-82-1	
1,2,4-Trimethylbenzene	<2.4	ug/kg	8.1	2.4	1	08/15/19 05:00	08/15/19 13:35	95-63-6	
1,2-Dibromo-3-chloropropane	<5.2	ug/kg	17.2	5.2	1	08/15/19 05:00	08/15/19 13:35	96-12-8	
1,2-Dibromoethane (EDB)	<0.30	ug/kg	1.0	0.30	1	08/15/19 05:00	08/15/19 13:35	106-93-4	
1,2-Dichlorobenzene	<2.1	ug/kg	7.1	2.1	1	08/15/19 05:00	08/15/19 13:35	95-50-1	
1,2-Dichloroethane	<0.35	ug/kg	1.2	0.35	1	08/15/19 05:00	08/15/19 13:35	107-06-2	
1,2-Dichloropropane	<2.3	ug/kg	7.6	2.3	1	08/15/19 05:00	08/15/19 13:35	78-87-5	
1,3,5-Trimethylbenzene	<2.6	ug/kg	8.8	2.6	1	08/15/19 05:00	08/15/19 13:35	108-67-8	
1,3-Dichlorobenzene	<2.4	ug/kg	8.0	2.4	1	08/15/19 05:00	08/15/19 13:35	541-73-1	
1,3-Dichloropropane	<1.9	ug/kg	6.3	1.9	1	08/15/19 05:00	08/15/19 13:35	142-28-9	
1,4-Dichlorobenzene	<2.5	ug/kg	8.4	2.5	1	08/15/19 05:00	08/15/19 13:35	106-46-7	
2,2-Dichloropropane	<2.8	ug/kg	9.5	2.8	1	08/15/19 05:00	08/15/19 13:35	594-20-7	
2-Chlorotoluene	<2.8	ug/kg	9.3	2.8	1	08/15/19 05:00	08/15/19 13:35	95-49-8	
4-Chlorotoluene	<2.5	ug/kg	8.3	2.5	1	08/15/19 05:00	08/15/19 13:35	106-43-4	
Benzene	<2.3	ug/kg	7.8	2.3	1	08/15/19 05:00	08/15/19 13:35	71-43-2	
Bromobenzene	<2.2	ug/kg	7.4	2.2	1	08/15/19 05:00	08/15/19 13:35	108-86-1	
Bromochloromethane	<3.0	ug/kg	10.0	3.0	1	08/15/19 05:00	08/15/19 13:35	74-97-5	
Bromodichloromethane	<2.1	ug/kg	7.1	2.1	1	08/15/19 05:00	08/15/19 13:35	75-27-4	
Bromoform	<7.0	ug/kg	23.4	7.0	1	08/15/19 05:00	08/15/19 13:35	75-25-2	
Bromomethane	<5.2	ug/kg	17.4	5.2	1	08/15/19 05:00	08/15/19 13:35	74-83-9	
Carbon tetrachloride	<2.7	ug/kg	9.1	2.7	1	08/15/19 05:00	08/15/19 13:35	56-23-5	
Chlorobenzene	<2.5	ug/kg	8.5	2.5	1	08/15/19 05:00	08/15/19 13:35	108-90-7	
Chloroethane	<3.1	ug/kg	10.5	3.1	1	08/15/19 05:00	08/15/19 13:35	75-00-3	
Chloroform	<2.8	ug/kg	9.4	2.8	1	08/15/19 05:00	08/15/19 13:35	67-66-3	
Chloromethane	8.4	ug/kg	7.1	2.1	1	08/15/19 05:00	08/15/19 13:35	74-87-3	
Dibromochloromethane	<2.2	ug/kg	7.4	2.2	1	08/15/19 05:00	08/15/19 13:35	124-48-1	
Dibromomethane	<2.6	ug/kg	8.5	2.6	1	08/15/19 05:00	08/15/19 13:35	74-95-3	
Dichlorodifluoromethane	<2.3	ug/kg	7.6	2.3	1	08/15/19 05:00	08/15/19 13:35	75-71-8	
Diisopropyl ether	<1.9	ug/kg	6.5	1.9	1	08/15/19 05:00	08/15/19 13:35	108-20-3	
Ethylbenzene	<3.0	ug/kg	10.0	3.0	1	08/15/19 05:00	08/15/19 13:35	100-41-4	
Hexachloro-1,3-butadiene	<3.5	ug/kg	11.7	3.5	1	08/15/19 05:00	08/15/19 13:35	87-68-3	
Isopropylbenzene (Cumene)	<2.5	ug/kg	8.4	2.5	1	08/15/19 05:00	08/15/19 13:35	98-82-8	
Methyl-tert-butyl ether	<3.6	ug/kg	12.0	3.6	1	08/15/19 05:00	08/15/19 13:35	1634-04-4	
Methylene Chloride	<2.4	ug/kg	8.0	2.4	1	08/15/19 05:00	08/15/19 13:35	75-09-2	
Naphthalene	<3.6	ug/kg	11.9	3.6	1	08/15/19 05:00	08/15/19 13:35	91-20-3	
Styrene	<10.4	ug/kg	34.5	10.4	1	08/15/19 05:00	08/15/19 13:35	100-42-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PECO-2017-101 FRANKLIN

Pace Project No.: 40192658

Sample: HA-2 **Lab ID: 40192658002** Collected: 08/06/19 15:30 Received: 08/08/19 09:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035 Low Level		Analytical Method: EPA 8260 Preparation Method: EPA 8260							
Tetrachloroethene	<4.3	ug/kg	14.2	4.3	1	08/15/19 05:00	08/15/19 13:35	127-18-4	
Toluene	<2.7	ug/kg	8.9	2.7	1	08/15/19 05:00	08/15/19 13:35	108-88-3	
Trichloroethene	<2.7	ug/kg	8.9	2.7	1	08/15/19 05:00	08/15/19 13:35	79-01-6	
Trichlorofluoromethane	<3.8	ug/kg	12.7	3.8	1	08/15/19 05:00	08/15/19 13:35	75-69-4	
Vinyl chloride	<4.2	ug/kg	14.0	4.2	1	08/15/19 05:00	08/15/19 13:35	75-01-4	
cis-1,2-Dichloroethene	<3.7	ug/kg	12.3	3.7	1	08/15/19 05:00	08/15/19 13:35	156-59-2	
cis-1,3-Dichloropropene	<4.9	ug/kg	16.5	4.9	1	08/15/19 05:00	08/15/19 13:35	10061-01-5	
m&p-Xylene	<5.4	ug/kg	18.1	5.4	1	08/15/19 05:00	08/15/19 13:35	179601-23-1	
n-Butylbenzene	<3.8	ug/kg	12.5	3.8	1	08/15/19 05:00	08/15/19 13:35	104-51-8	
n-Propylbenzene	<3.1	ug/kg	10.2	3.1	1	08/15/19 05:00	08/15/19 13:35	103-65-1	
o-Xylene	<2.1	ug/kg	6.9	2.1	1	08/15/19 05:00	08/15/19 13:35	95-47-6	
p-Isopropyltoluene	<3.3	ug/kg	11.0	3.3	1	08/15/19 05:00	08/15/19 13:35	99-87-6	
sec-Butylbenzene	<3.1	ug/kg	10.4	3.1	1	08/15/19 05:00	08/15/19 13:35	135-98-8	
tert-Butylbenzene	<2.6	ug/kg	8.8	2.6	1	08/15/19 05:00	08/15/19 13:35	98-06-6	
trans-1,2-Dichloroethene	<2.6	ug/kg	8.5	2.6	1	08/15/19 05:00	08/15/19 13:35	156-60-5	
trans-1,3-Dichloropropene	<1.8	ug/kg	6.1	1.8	1	08/15/19 05:00	08/15/19 13:35	10061-02-6	
Surrogates									
Dibromofluoromethane (S)	115	%	73-142		1	08/15/19 05:00	08/15/19 13:35	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1	08/15/19 05:00	08/15/19 13:35	2037-26-5	
4-Bromofluorobenzene (S)	71	%	68-130		1	08/15/19 05:00	08/15/19 13:35	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PECO-2017-101 FRANKLIN

Pace Project No.: 40192658

Sample: HA-3 **Lab ID: 40192658003** Collected: 08/06/19 15:45 Received: 08/08/19 09:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035 Low Level		Analytical Method: EPA 8260 Preparation Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<2.7	ug/kg	8.8	2.7	1	08/15/19 05:00	08/15/19 13:58	630-20-6	
1,1,1-Trichloroethane	<3.6	ug/kg	11.9	3.6	1	08/15/19 05:00	08/15/19 13:58	71-55-6	
1,1,2,2-Tetrachloroethane	<5.5	ug/kg	18.3	5.5	1	08/15/19 05:00	08/15/19 13:58	79-34-5	
1,1,2-Trichloroethane	<3.4	ug/kg	11.4	3.4	1	08/15/19 05:00	08/15/19 13:58	79-00-5	
1,1-Dichloroethane	<4.5	ug/kg	15.1	4.5	1	08/15/19 05:00	08/15/19 13:58	75-34-3	
1,1-Dichloroethene	<3.8	ug/kg	12.6	3.8	1	08/15/19 05:00	08/15/19 13:58	75-35-4	
1,1-Dichloropropene	<3.5	ug/kg	11.7	3.5	1	08/15/19 05:00	08/15/19 13:58	563-58-6	
1,2,3-Trichlorobenzene	<2.6	ug/kg	8.7	2.6	1	08/15/19 05:00	08/15/19 13:58	87-61-6	
1,2,3-Trichloropropane	<4.3	ug/kg	14.2	4.3	1	08/15/19 05:00	08/15/19 13:58	96-18-4	
1,2,4-Trichlorobenzene	<2.6	ug/kg	8.8	2.6	1	08/15/19 05:00	08/15/19 13:58	120-82-1	
1,2,4-Trimethylbenzene	<3.1	ug/kg	10.3	3.1	1	08/15/19 05:00	08/15/19 13:58	95-63-6	
1,2-Dibromo-3-chloropropane	<6.6	ug/kg	21.9	6.6	1	08/15/19 05:00	08/15/19 13:58	96-12-8	
1,2-Dibromoethane (EDB)	<0.39	ug/kg	1.3	0.39	1	08/15/19 05:00	08/15/19 13:58	106-93-4	
1,2-Dichlorobenzene	<2.7	ug/kg	9.0	2.7	1	08/15/19 05:00	08/15/19 13:58	95-50-1	
1,2-Dichloroethane	<0.45	ug/kg	1.5	0.45	1	08/15/19 05:00	08/15/19 13:58	107-06-2	
1,2-Dichloropropane	<2.9	ug/kg	9.7	2.9	1	08/15/19 05:00	08/15/19 13:58	78-87-5	
1,3,5-Trimethylbenzene	<3.4	ug/kg	11.2	3.4	1	08/15/19 05:00	08/15/19 13:58	108-67-8	
1,3-Dichlorobenzene	<3.0	ug/kg	10.2	3.0	1	08/15/19 05:00	08/15/19 13:58	541-73-1	
1,3-Dichloropropane	<2.4	ug/kg	8.1	2.4	1	08/15/19 05:00	08/15/19 13:58	142-28-9	
1,4-Dichlorobenzene	<3.2	ug/kg	10.7	3.2	1	08/15/19 05:00	08/15/19 13:58	106-46-7	
2,2-Dichloropropane	<3.6	ug/kg	12.0	3.6	1	08/15/19 05:00	08/15/19 13:58	594-20-7	
2-Chlorotoluene	<3.6	ug/kg	11.9	3.6	1	08/15/19 05:00	08/15/19 13:58	95-49-8	
4-Chlorotoluene	<3.2	ug/kg	10.6	3.2	1	08/15/19 05:00	08/15/19 13:58	106-43-4	
Benzene	<3.0	ug/kg	10	3.0	1	08/15/19 05:00	08/15/19 13:58	71-43-2	
Bromobenzene	<2.8	ug/kg	9.4	2.8	1	08/15/19 05:00	08/15/19 13:58	108-86-1	
Bromochloromethane	<3.8	ug/kg	12.8	3.8	1	08/15/19 05:00	08/15/19 13:58	74-97-5	
Bromodichloromethane	<2.7	ug/kg	9.1	2.7	1	08/15/19 05:00	08/15/19 13:58	75-27-4	
Bromoform	<8.9	ug/kg	29.8	8.9	1	08/15/19 05:00	08/15/19 13:58	75-25-2	
Bromomethane	<6.7	ug/kg	22.2	6.7	1	08/15/19 05:00	08/15/19 13:58	74-83-9	
Carbon tetrachloride	<3.5	ug/kg	11.6	3.5	1	08/15/19 05:00	08/15/19 13:58	56-23-5	
Chlorobenzene	<3.2	ug/kg	10.8	3.2	1	08/15/19 05:00	08/15/19 13:58	108-90-7	
Chloroethane	<4.0	ug/kg	13.3	4.0	1	08/15/19 05:00	08/15/19 13:58	75-00-3	
Chloroform	<3.6	ug/kg	11.9	3.6	1	08/15/19 05:00	08/15/19 13:58	67-66-3	
Chloromethane	8.9J	ug/kg	9.1	2.7	1	08/15/19 05:00	08/15/19 13:58	74-87-3	
Dibromochloromethane	<2.8	ug/kg	9.4	2.8	1	08/15/19 05:00	08/15/19 13:58	124-48-1	
Dibromomethane	<3.3	ug/kg	10.9	3.3	1	08/15/19 05:00	08/15/19 13:58	74-95-3	
Dichlorodifluoromethane	<2.9	ug/kg	9.7	2.9	1	08/15/19 05:00	08/15/19 13:58	75-71-8	
Diisopropyl ether	<2.5	ug/kg	8.2	2.5	1	08/15/19 05:00	08/15/19 13:58	108-20-3	
Ethylbenzene	<3.8	ug/kg	12.8	3.8	1	08/15/19 05:00	08/15/19 13:58	100-41-4	
Hexachloro-1,3-butadiene	<4.5	ug/kg	14.8	4.5	1	08/15/19 05:00	08/15/19 13:58	87-68-3	
Isopropylbenzene (Cumene)	<3.2	ug/kg	10.7	3.2	1	08/15/19 05:00	08/15/19 13:58	98-82-8	
Methyl-tert-butyl ether	<4.6	ug/kg	15.3	4.6	1	08/15/19 05:00	08/15/19 13:58	1634-04-4	
Methylene Chloride	<3.1	ug/kg	10.2	3.1	1	08/15/19 05:00	08/15/19 13:58	75-09-2	
Naphthalene	<4.5	ug/kg	15.1	4.5	1	08/15/19 05:00	08/15/19 13:58	91-20-3	
Styrene	<13.2	ug/kg	43.9	13.2	1	08/15/19 05:00	08/15/19 13:58	100-42-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PECO-2017-101 FRANKLIN

Pace Project No.: 40192658

Sample: HA-3 **Lab ID: 40192658003** Collected: 08/06/19 15:45 Received: 08/08/19 09:00 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035 Low Level		Analytical Method: EPA 8260 Preparation Method: EPA 8260							
Tetrachloroethene	<5.4	ug/kg	18.1	5.4	1	08/15/19 05:00	08/15/19 13:58	127-18-4	
Toluene	<3.4	ug/kg	11.3	3.4	1	08/15/19 05:00	08/15/19 13:58	108-88-3	
Trichloroethene	<3.4	ug/kg	11.3	3.4	1	08/15/19 05:00	08/15/19 13:58	79-01-6	
Trichlorofluoromethane	<4.9	ug/kg	16.2	4.9	1	08/15/19 05:00	08/15/19 13:58	75-69-4	
Vinyl chloride	<5.4	ug/kg	17.9	5.4	1	08/15/19 05:00	08/15/19 13:58	75-01-4	
cis-1,2-Dichloroethene	<4.7	ug/kg	15.6	4.7	1	08/15/19 05:00	08/15/19 13:58	156-59-2	
cis-1,3-Dichloropropene	<6.3	ug/kg	21.0	6.3	1	08/15/19 05:00	08/15/19 13:58	10061-01-5	
m&p-Xylene	<6.9	ug/kg	23.0	6.9	1	08/15/19 05:00	08/15/19 13:58	179601-23-1	
n-Butylbenzene	<4.8	ug/kg	16.0	4.8	1	08/15/19 05:00	08/15/19 13:58	104-51-8	
n-Propylbenzene	<3.9	ug/kg	13.0	3.9	1	08/15/19 05:00	08/15/19 13:58	103-65-1	
o-Xylene	<2.6	ug/kg	8.8	2.6	1	08/15/19 05:00	08/15/19 13:58	95-47-6	
p-Isopropyltoluene	<4.2	ug/kg	14.0	4.2	1	08/15/19 05:00	08/15/19 13:58	99-87-6	
sec-Butylbenzene	<4.0	ug/kg	13.2	4.0	1	08/15/19 05:00	08/15/19 13:58	135-98-8	
tert-Butylbenzene	<3.4	ug/kg	11.2	3.4	1	08/15/19 05:00	08/15/19 13:58	98-06-6	
trans-1,2-Dichloroethene	<3.3	ug/kg	10.9	3.3	1	08/15/19 05:00	08/15/19 13:58	156-60-5	
trans-1,3-Dichloropropene	<2.3	ug/kg	7.7	2.3	1	08/15/19 05:00	08/15/19 13:58	10061-02-6	
Surrogates									
Dibromofluoromethane (S)	120	%	73-142		1	08/15/19 05:00	08/15/19 13:58	1868-53-7	
Toluene-d8 (S)	89	%	70-130		1	08/15/19 05:00	08/15/19 13:58	2037-26-5	
4-Bromofluorobenzene (S)	77	%	68-130		1	08/15/19 05:00	08/15/19 13:58	460-00-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PECO-2017-101 FRANKLIN

Pace Project No.: 40192658

QC Batch: 330783 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low
Associated Lab Samples: 40192658001, 40192658002, 40192658003

METHOD BLANK: 1919023 Matrix: Solid

Associated Lab Samples: 40192658001, 40192658002, 40192658003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<2.4	8.0	08/15/19 10:13	
1,1,1-Trichloroethane	ug/kg	<3.2	10.8	08/15/19 10:13	
1,1,2,2-Tetrachloroethane	ug/kg	<5.0	16.6	08/15/19 10:13	
1,1,2-Trichloroethane	ug/kg	<3.1	10.3	08/15/19 10:13	
1,1-Dichloroethane	ug/kg	<4.1	13.7	08/15/19 10:13	
1,1-Dichloroethene	ug/kg	<3.4	11.4	08/15/19 10:13	
1,1-Dichloropropene	ug/kg	<3.2	10.6	08/15/19 10:13	
1,2,3-Trichlorobenzene	ug/kg	<2.4	7.9	08/15/19 10:13	
1,2,3-Trichloropropane	ug/kg	<3.9	12.9	08/15/19 10:13	
1,2,4-Trichlorobenzene	ug/kg	<2.4	8.0	08/15/19 10:13	
1,2,4-Trimethylbenzene	ug/kg	<2.8	9.4	08/15/19 10:13	
1,2-Dibromo-3-chloropropane	ug/kg	<6.0	19.9	08/15/19 10:13	
1,2-Dibromoethane (EDB)	ug/kg	<0.35	1.2	08/15/19 10:13	
1,2-Dichlorobenzene	ug/kg	<2.5	8.2	08/15/19 10:13	
1,2-Dichloroethane	ug/kg	<0.41	1.4	08/15/19 10:13	
1,2-Dichloropropane	ug/kg	<2.6	8.8	08/15/19 10:13	
1,3,5-Trimethylbenzene	ug/kg	<3.1	10.2	08/15/19 10:13	
1,3-Dichlorobenzene	ug/kg	<2.8	9.2	08/15/19 10:13	
1,3-Dichloropropane	ug/kg	<2.2	7.3	08/15/19 10:13	
1,4-Dichlorobenzene	ug/kg	<2.9	9.7	08/15/19 10:13	
2,2-Dichloropropane	ug/kg	<3.3	10.9	08/15/19 10:13	
2-Chlorotoluene	ug/kg	<3.2	10.8	08/15/19 10:13	
4-Chlorotoluene	ug/kg	<2.9	9.6	08/15/19 10:13	
Benzene	ug/kg	<2.7	9.0	08/15/19 10:13	
Bromobenzene	ug/kg	<2.6	8.6	08/15/19 10:13	
Bromochloromethane	ug/kg	<3.5	11.6	08/15/19 10:13	
Bromodichloromethane	ug/kg	<2.5	8.2	08/15/19 10:13	
Bromoform	ug/kg	<8.1	27.0	08/15/19 10:13	
Bromomethane	ug/kg	<6.0	20.2	08/15/19 10:13	
Carbon tetrachloride	ug/kg	<3.2	10.5	08/15/19 10:13	
Chlorobenzene	ug/kg	<2.9	9.8	08/15/19 10:13	
Chloroethane	ug/kg	<3.6	12.1	08/15/19 10:13	
Chloroform	ug/kg	<3.3	10.8	08/15/19 10:13	
Chloromethane	ug/kg	<2.5	8.3	08/15/19 10:13	
cis-1,2-Dichloroethene	ug/kg	<4.3	14.2	08/15/19 10:13	
cis-1,3-Dichloropropene	ug/kg	<5.7	19.0	08/15/19 10:13	
Dibromochloromethane	ug/kg	<2.6	8.5	08/15/19 10:13	
Dibromomethane	ug/kg	<3.0	9.9	08/15/19 10:13	
Dichlorodifluoromethane	ug/kg	<2.6	8.8	08/15/19 10:13	
Diisopropyl ether	ug/kg	<2.2	7.5	08/15/19 10:13	
Ethylbenzene	ug/kg	<3.5	11.6	08/15/19 10:13	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PECO-2017-101 FRANKLIN

Pace Project No.: 40192658

METHOD BLANK: 1919023

Matrix: Solid

Associated Lab Samples: 40192658001, 40192658002, 40192658003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	<4.0	13.5	08/15/19 10:13	
Isopropylbenzene (Cumene)	ug/kg	<2.9	9.7	08/15/19 10:13	
m&p-Xylene	ug/kg	<6.3	20.9	08/15/19 10:13	
Methyl-tert-butyl ether	ug/kg	<4.2	13.8	08/15/19 10:13	
Methylene Chloride	ug/kg	<2.8	9.3	08/15/19 10:13	
n-Butylbenzene	ug/kg	<4.3	14.5	08/15/19 10:13	
n-Propylbenzene	ug/kg	<3.5	11.8	08/15/19 10:13	
Naphthalene	ug/kg	<4.1	13.7	08/15/19 10:13	
o-Xylene	ug/kg	<2.4	8.0	08/15/19 10:13	
p-Isopropyltoluene	ug/kg	<3.8	12.7	08/15/19 10:13	
sec-Butylbenzene	ug/kg	<3.6	12.0	08/15/19 10:13	
Styrene	ug/kg	<12.0	39.9	08/15/19 10:13	
tert-Butylbenzene	ug/kg	<3.0	10.2	08/15/19 10:13	
Tetrachloroethene	ug/kg	<4.9	16.4	08/15/19 10:13	
Toluene	ug/kg	<3.1	10.3	08/15/19 10:13	
trans-1,2-Dichloroethene	ug/kg	<3.0	9.9	08/15/19 10:13	
trans-1,3-Dichloropropene	ug/kg	<2.1	7.0	08/15/19 10:13	
Trichloroethene	ug/kg	<3.1	10.3	08/15/19 10:13	
Trichlorofluoromethane	ug/kg	<4.4	14.7	08/15/19 10:13	
Vinyl chloride	ug/kg	<4.9	16.2	08/15/19 10:13	
4-Bromofluorobenzene (S)	%	77	68-130	08/15/19 10:13	
Dibromofluoromethane (S)	%	103	73-142	08/15/19 10:13	
Toluene-d8 (S)	%	93	70-130	08/15/19 10:13	

LABORATORY CONTROL SAMPLE & LCSD: 1919024

1919025

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	50	40.8	45.1	82	90	66-130	10	27	
1,1,2,2-Tetrachloroethane	ug/kg	50	44.3	47.8	89	96	75-142	8	22	
1,1,2-Trichloroethane	ug/kg	50	47.5	51.8	95	104	70-130	9	22	
1,1-Dichloroethane	ug/kg	50	40.6	44.9	81	90	66-128	10	20	
1,1-Dichloroethene	ug/kg	50	37.0	41.6	74	83	59-131	12	24	
1,2,4-Trichlorobenzene	ug/kg	50	41.1	46.8	82	94	72-157	13	25	
1,2-Dibromo-3-chloropropane	ug/kg	50	39.7	43.6	79	87	55-159	9	33	
1,2-Dibromoethane (EDB)	ug/kg	50	47.4	52.5	95	105	70-130	10	24	
1,2-Dichlorobenzene	ug/kg	50	45.1	49.9	90	100	70-137	10	23	
1,2-Dichloroethane	ug/kg	50	45.2	49.7	90	99	64-135	10	24	
1,2-Dichloropropane	ug/kg	50	53.5	59.5	107	119	71-123	11	23	
1,3-Dichlorobenzene	ug/kg	50	42.9	47.7	86	95	65-153	11	20	
1,4-Dichlorobenzene	ug/kg	50	45.8	51.2	92	102	74-131	11	25	
Benzene	ug/kg	50	39.1	43.7	78	87	70-130	11	24	
Bromodichloromethane	ug/kg	50	46.2	52.0	92	104	70-130	12	26	
Bromoform	ug/kg	50	53.5	58.1	107	116	70-130	8	24	
Bromomethane	ug/kg	50	24.9	28.5	50	57	26-151	13	30	

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QUALITY CONTROL DATA

Project: PECO-2017-101 FRANKLIN

Pace Project No.: 40192658

LABORATORY CONTROL SAMPLE & LCSD:		1919024		1919025							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Carbon tetrachloride	ug/kg	50	44.0	49.1	88	98	67-130	11	22		
Chlorobenzene	ug/kg	50	47.7	53.1	95	106	70-130	11	24		
Chloroethane	ug/kg	50	28.8	34.6	58	69	53-131	18	27		
Chloroform	ug/kg	50	38.2	42.2	76	84	66-130	10	21		
Chloromethane	ug/kg	50	23.7	27.2	47	54	21-118	14	25		
cis-1,2-Dichloroethene	ug/kg	50	39.5	43.8	79	88	62-123	10	23		
cis-1,3-Dichloropropene	ug/kg	50	43.8	49.4	88	99	70-130	12	23		
Dibromochloromethane	ug/kg	50	49.5	54.8	99	110	70-130	10	24		
Dichlorodifluoromethane	ug/kg	50	12.9	14.3	26	29	22-103	10	20		
Ethylbenzene	ug/kg	50	45.5	51.2	91	102	80-121	12	24		
Isopropylbenzene (Cumene)	ug/kg	50	48.3	54.1	97	108	70-130	11	20		
m&p-Xylene	ug/kg	100	99.3	110	99	110	70-130	11	25		
Methyl-tert-butyl ether	ug/kg	50	37.9	42.1	76	84	49-140	10	25		
Methylene Chloride	ug/kg	50	36.7	41.6	73	83	63-131	12	27		
o-Xylene	ug/kg	50	46.9	52.6	94	105	70-130	11	21		
Styrene	ug/kg	50	51.2	56.6	102	113	70-130	10	23		
Tetrachloroethene	ug/kg	50	49.7	55.7	99	111	70-130	11	24		
Toluene	ug/kg	50	45.3	51.3	91	103	79-120	12	22		
trans-1,2-Dichloroethene	ug/kg	50	38.3	42.5	77	85	61-139	11	27		
trans-1,3-Dichloropropene	ug/kg	50	41.2	45.9	82	92	70-130	11	24		
Trichloroethene	ug/kg	50	45.2	50.8	90	102	70-130	12	26		
Trichlorofluoromethane	ug/kg	50	38.9	43.4	78	87	47-136	11	20		
Vinyl chloride	ug/kg	50	28.3	32.1	57	64	40-126	13	30		
4-Bromofluorobenzene (S)	%				98	98	68-130				
Dibromofluoromethane (S)	%				95	95	73-142				
Toluene-d8 (S)	%				97	98	70-130				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1919026		1919027								
Parameter	Units	40192927007	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result										
1,1,1-Trichloroethane	ug/kg	<0.0038 mg/kg	58.3	58.3	41.8	43.4	72	74	66-130	4	44	
1,1,2,2-Tetrachloroethane	ug/kg	<0.0059 mg/kg	58.3	58.3	47.2	50.8	81	87	16-199	8	47	
1,1,2-Trichloroethane	ug/kg	<0.0037 mg/kg	58.3	58.3	50.1	54.1	86	93	43-148	8	46	
1,1-Dichloroethane	ug/kg	<0.0049 mg/kg	58.3	58.3	43.4	46.6	74	80	58-137	7	33	
1,1-Dichloroethene	ug/kg	<0.0040 mg/kg	58.3	58.3	38.5	35.4	66	61	53-140	8	43	
1,2,4-Trichlorobenzene	ug/kg	<2.8	58.3	58.3	22.3	17.0	37	28	41-182	27	25	M1,R1
1,2-Dibromo-3-chloropropane	ug/kg	<7.0	58.3	58.3	43.9	45.6	75	78	55-159	4	40	
1,2-Dibromoethane (EDB)	ug/kg	<0.41	58.3	58.3	50.1	53.3	86	91	52-133	6	28	
1,2-Dichlorobenzene	ug/kg	<2.9	58.3	58.3	35.8	32.3	61	55	70-140	10	20	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PECO-2017-101 FRANKLIN

Pace Project No.: 40192658

Parameter	Units	40192927007		1919026		1919027		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
1,2-Dichloroethane	ug/kg	<0.00048 mg/kg	58.3	58.3	48.0	51.4	82	88	49-135	7	41			
1,2-Dichloropropane	ug/kg	<0.0031 mg/kg	58.3	58.3	55.1	59.3	94	102	51-134	7	40			
1,3-Dichlorobenzene	ug/kg	<3.3	58.3	58.3	33.8	27.6	58	47	65-153	20	20	M1		
1,4-Dichlorobenzene	ug/kg	<3.4	58.3	58.3	35.9	30.2	61	51	74-134	17	23	M1		
Benzene	ug/kg	<0.0032 mg/kg	58.3	58.3	40.3	42.2	69	72	51-136	5	37			
Bromodichloromethane	ug/kg	<0.0029 mg/kg	58.3	58.3	48.1	52.0	82	89	56-130	8	33			
Bromoform	ug/kg	<0.0096 mg/kg	58.3	58.3	55.0	58.6	94	100	21-148	6	33			
Bromomethane	ug/kg	<0.0071 mg/kg	58.3	58.3	31.5	31.8	54	54	17-175	1	35			
Carbon tetrachloride	ug/kg	<0.0037 mg/kg	58.3	58.3	42.4	40.4	73	69	53-134	5	43			
Chlorobenzene	ug/kg	<0.0035 mg/kg	58.3	58.3	44.9	42.6	77	73	35-149	5	50			
Chloroethane	ug/kg	<0.0043 mg/kg	58.3	58.3	33.2	34.2	57	59	53-140	3	31			
Chloroform	ug/kg	<0.0038 mg/kg	58.3	58.3	41.0	43.1	70	74	54-133	5	46			
Chloromethane	ug/kg	<0.0029 mg/kg	58.3	58.3	28.8	29.1	49	50	21-119	1	40			
cis-1,2-Dichloroethene	ug/kg	<0.0050 mg/kg	58.3	58.3	41.8	43.2	72	74	49-131	3	44			
cis-1,3-Dichloropropene	ug/kg	<0.0067 mg/kg	58.3	58.3	44.3	46.7	76	80	23-148	5	35			
Dibromochloromethane	ug/kg	<0.0030 mg/kg	58.3	58.3	51.8	55.0	89	94	51-132	6	35			
Dichlorodifluoromethane	ug/kg	<3.1	58.3	58.3	13.1	9.0J	23	15	22-103		20	M1		
Ethylbenzene	ug/kg	<0.0041 mg/kg	58.3	58.3	39.8	36.5	68	62	48-144	9	50			
Isopropylbenzene (Cumene)	ug/kg	<3.4	58.3	58.3	36.1	32.5	62	56	70-130	10	20	M1		
m&p-Xylene	ug/kg	<0.0074 mg/kg	117	117	85.9	76.4	74	65	35-156	12	50			
Methyl-tert-butyl ether	ug/kg	<0.0049 mg/kg	58.3	58.3	42.6	46.7	73	80	23-163	9	50			
Methylene Chloride	ug/kg	<0.0033 mg/kg	58.3	58.3	40.5	43.2	69	74	53-140	7	30			
o-Xylene	ug/kg	<0.0028 mg/kg	58.3	58.3	41.8	40.0	72	69	32-155	4	50			
Styrene	ug/kg	<0.014 mg/kg	58.3	58.3	46.2J	43.5J	79	75	25-145		28			
Tetrachloroethene	ug/kg	<0.0058 mg/kg	58.3	58.3	40.1	31.2	69	53	33-174	25	50			
Toluene	ug/kg	<0.0036 mg/kg	58.3	58.3	45.3	43.7	78	75	52-143	4	42			
trans-1,2-Dichloroethene	ug/kg	<0.0035 mg/kg	58.3	58.3	38.9	36.6	67	63	58-142	6	36			
trans-1,3-Dichloropropene	ug/kg	<0.0025 mg/kg	58.3	58.3	44.2	44.7	76	77	28-144	1	34			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PECO-2017-101 FRANKLIN

Pace Project No.: 40192658

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1919026		1919027		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40192927007 Result	MS Spike Conc.	MSD Spike Conc.									
Trichloroethene	ug/kg	<0.0036 mg/kg	58.3	58.3	42.5	39.3	73	67	50-138	8	45		
Trichlorofluoromethane	ug/kg	<0.0052 mg/kg	58.3	58.3	37.1	31.6	64	54	47-136	16	20		
Vinyl chloride	ug/kg	<0.0058 mg/kg	58.3	58.3	32.0	30.7	55	53	40-139	4	37		
4-Bromofluorobenzene (S)	%							98	98	68-130			
Dibromofluoromethane (S)	%							95	95	73-142			
Toluene-d8 (S)	%							100	100	70-130			

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QUALIFIERS

Project: PECO-2017-101 FRANKLIN

Pace Project No.: 40192658

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

WORKORDER QUALIFIERS

WO: 40192658

[1] No dry wt volume received. Report "as received" per client request.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PECO-2017-101 FRANKLIN

Pace Project No.: 40192658

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40192658001	HA-1	EPA 8260	330783	EPA 8260	330786
40192658002	HA-2	EPA 8260	330783	EPA 8260	330786
40192658003	HA-3	EPA 8260	330783	EPA 8260	330786

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: **APEX COS**
 Branch/Location: **Chicago**
 Project Contact: **Steve Newlin**
 Phone: **847-687-8095**
 Project Number: **PECO-2017-101**
 Project Name: **FRANKLIN**
 Project State: **WI**
 Sampled By (Print): **AHMED ALI**
 Sampled By (Sign): *[Signature]*
 PO #:



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

40192658

CHAIN OF CUSTODY

Preservation Codes
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	Pick Letter	Analysis Requested	Matrix
		VLS Chlorinated Normal list per SN K1619	

Quote #:
 Mail To Contact:
 Mail To Company:
 Mail To Address:
 Invoice To Contact:
 Invoice To Company:
 Invoice To Address:
 Invoice To Phone:

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	HA-1	8/6	150	S
002	HA-2		150	S
003	HA-3		155	S

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed:

Relinquished By: *Ahmed Ali / APEX* Date/Time: *8/6/2008*
 Relinquished By: *[Signature]* Date/Time: *8-8-19 0900*
 Relinquished By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: _____
 Received By: *Suzanne Wiles* Date/Time: *8-8-19 0900*
 Received By: *[Signature]* Date/Time: _____
 Received By: _____ Date/Time: _____

Transmit Prelim Rush Results by (complete what you want):
 Email #1:
 Email #2:
 Telephone:
 Fax:

Samples on HOLD are subject to special pricing and release of liability

PACE Project No. **40192658**
 Receipt Temp = _____ °C
 Sample Receipt pH **OK / Adjusted**
 Cooler Custody Seal **Present / Not Present**
 Intact / Not Intact

Client Name: APEX Project # 40192658

All containers needing preservation have been checked and noted below: Yes No N/A

Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted):

Initial when completed:

Date/Time:


Pace Lab #	Glass								Plastic						Vials					Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)			
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC								GN		
001																																			2.5 / 5 / 10
002																																			2.5 / 5 / 10
003																																			2.5 / 5 / 10
004																																			2.5 / 5 / 10
005																																			2.5 / 5 / 10
006																																			2.5 / 5 / 10
007																																			2.5 / 5 / 10
008																																			2.5 / 5 / 10
009																																			2.5 / 5 / 10
010																																			2.5 / 5 / 10
011																																			2.5 / 5 / 10
012																																			2.5 / 5 / 10
013																																			2.5 / 5 / 10
014																																			2.5 / 5 / 10
015																																			2.5 / 5 / 10
016																																			2.5 / 5 / 10
017																																			2.5 / 5 / 10
018																																			2.5 / 5 / 10
019																																			2.5 / 5 / 10
020																																			2.5 / 5 / 10

Exceptions to preservation check: VOA) Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm): Yes No N/A *If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3B	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	<i>40ml clear glass Sodium Bisulfate</i>

Sample Condition Upon Receipt Form (SCUR)

Client Name: APEX
 Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____

Project #: **WO# : 40192658**

 40192658

Tracking #: _____
 Custody Seal on Cooler/Box Present: yes no Seals intact: yes no
 Custody Seal on Samples Present: yes no Seals intact: yes no
 Packing Material: Bubble Wrap Bubble Bags None Other
 Thermometer Used SR - N/A Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun
 Cooler Temperature Uncorr: ROT ICorr: _____
 Temp Blank Present: yes no Biological Tissue is Frozen: yes no
 Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C.

Person examining contents:
 Date: 8-8-19
 Initials: [Signature]

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1. <u>CC</u>	<u>8-8-19</u>
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>No pg #, Mail, Invoice</u>	<u>8-8-19</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.	
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:	
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.	
Sufficient Volume:		8.	
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A			
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.	
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>No dry weight Volume</u>	<u>8-8-19</u>
-Includes date/time/ID/Analysis Matrix: <u>5</u>			
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.	
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased):			

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: (2) report as rec'd per SN Case 9/1/19

Project Manager Review: [Signature] Date: 8/9/19

January 15, 2021

Ahmed Ali
Apex Companies LLC
300 South Wacker Drive
Suite 630
Chicago, IL 60606

RE: Project: PECO_2017-101 FRANKLIN
Pace Project No.: 40220933

Dear Ahmed Ali:

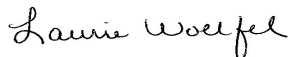
Enclosed are the analytical results for sample(s) received by the laboratory on January 13, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Laurie Woelfel
laurie.woelfel@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: PECO_2017-101 FRANKLIN

Pace Project No.: 40220933

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: PECO_2017-101 FRANKLIN

Pace Project No.: 40220933

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40220933001	SS-SOIL-01	Solid	01/11/21 12:30	01/13/21 08:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: PECO_2017-101 FRANKLIN

Pace Project No.: 40220933

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40220933001	SS-SOIL-01	EPA 8260	MDS	8	PASI-G

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PECO_2017-101 FRANKLIN

Pace Project No.: 40220933

Sample: SS-SOIL-01 **Lab ID: 40220933001** Collected: 01/11/21 12:30 Received: 01/13/21 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Tetrachloroethene	<21.1	ug/kg	54.3	21.1	1	01/14/21 08:30	01/14/21 19:25	127-18-4	
Trichloroethene	<20.3	ug/kg	54.3	20.3	1	01/14/21 08:30	01/14/21 19:25	79-01-6	
Vinyl chloride	<11.0	ug/kg	54.3	11.0	1	01/14/21 08:30	01/14/21 19:25	75-01-4	
cis-1,2-Dichloroethene	<11.6	ug/kg	54.3	11.6	1	01/14/21 08:30	01/14/21 19:25	156-59-2	
trans-1,2-Dichloroethene	<11.7	ug/kg	54.3	11.7	1	01/14/21 08:30	01/14/21 19:25	156-60-5	
Surrogates									
Toluene-d8 (S)	88	%	56-140		1	01/14/21 08:30	01/14/21 19:25	2037-26-5	
4-Bromofluorobenzene (S)	93	%	52-137		1	01/14/21 08:30	01/14/21 19:25	460-00-4	
1,2-Dichlorobenzene-d4 (S)	85	%	50-150		1	01/14/21 08:30	01/14/21 19:25	2199-69-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PECO_2017-101 FRANKLIN
Pace Project No.: 40220933

QC Batch: 375806 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40220933001

METHOD BLANK: 2170905 Matrix: Solid
Associated Lab Samples: 40220933001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/kg	<10.7	50.0	01/14/21 10:36	
Tetrachloroethene	ug/kg	<19.4	50.0	01/14/21 10:36	
trans-1,2-Dichloroethene	ug/kg	<10.8	50.0	01/14/21 10:36	
Trichloroethene	ug/kg	<18.7	50.0	01/14/21 10:36	
Vinyl chloride	ug/kg	<10.1	50.0	01/14/21 10:36	
1,2-Dichlorobenzene-d4 (S)	%	90	50-150	01/14/21 10:36	
4-Bromofluorobenzene (S)	%	93	52-137	01/14/21 10:36	
Toluene-d8 (S)	%	82	56-140	01/14/21 10:36	

LABORATORY CONTROL SAMPLE: 2170906

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/kg	2500	2370	95	69-130	
Tetrachloroethene	ug/kg	2500	2230	89	70-130	
trans-1,2-Dichloroethene	ug/kg	2500	2380	95	70-130	
Trichloroethene	ug/kg	2500	2460	98	70-130	
Vinyl chloride	ug/kg	2500	2450	98	53-110	
1,2-Dichlorobenzene-d4 (S)	%			98	50-150	
4-Bromofluorobenzene (S)	%			107	52-137	
Toluene-d8 (S)	%			103	56-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2170907 2170908

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40220877002 Result	Spike Conc.	Spike Conc.	Conc.								
cis-1,2-Dichloroethene	ug/kg	<11.0	1030	1030	1020	1080	100	105	69-130	6	20		
Tetrachloroethene	ug/kg	<19.9	1030	1030	944	959	92	93	68-130	2	20		
trans-1,2-Dichloroethene	ug/kg	<11.1	1030	1030	986	1050	96	102	70-130	6	20		
Trichloroethene	ug/kg	<19.2	1030	1030	1040	1060	102	103	70-130	1	20		
Vinyl chloride	ug/kg	<10.4	1030	1030	1090	1170	107	114	32-118	6	20		
1,2-Dichlorobenzene-d4 (S)	%						101	106	50-150				
4-Bromofluorobenzene (S)	%						115	118	52-137				
Toluene-d8 (S)	%						105	106	56-140				

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: PECO_2017-101 FRANKLIN

Pace Project No.: 40220933

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PECO_2017-101 FRANKLIN
Pace Project No.: 40220933

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40220933001	SS-SOIL-01	EPA 5035/5030B	375806	EPA 8260	375807

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: APEX COMPANIES, LLC
Branch/Location: Chicago
Project Contact:
Phone: 847-687-8095
Project Number: PEO-2017-101
Project Name: FRANKLIN
Project State: WI
Sampled By (Print): Ahmed Ali
Sampled By (Sign): *Ahmed Ali*
PO #: Regulatory Program:



UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436

40220933

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	Pick Letter	Analyses Requested												
		X												

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Y/N	Pick Letter	Analyses Requested
		DATE	TIME				
001	SS-SOIL-01	01/11	12:30	S		X	

Quote #:
Mail To Contact:
Mail To Company:
Mail To Address:
Invoice To Contact:
Invoice To Company:
Invoice To Address:
Invoice To Phone:
CLIENT COMMENTS
LAB COMMENTS (Lab Use Only)
Profile #

DI vials
 frozen @
 0906 1/12/21
 KH 1/12/21

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:		Relinquished By: <i>Ahmed Ali</i> Date/Time: 01/11/8:45	Received By: <i>Karen Hoffmann</i> Date/Time: 1/12/21 0830	PACE Project No. 40220933
Transmit Prelim Rush Results by (complete what you want):		Relinquished By: <i>Karen Hoffmann</i> Date/Time: 1/12/21 1700	Received By: <i>CS Logistics</i> Date/Time: 1/12/21	
Email #1:		Relinquished By: <i>CS Logistics</i> Date/Time: 1-13-21 0850	Received By: <i>M... 2...</i> Date/Time: 1-13-21 0850	Receipt Temp = ROI °C
Email #2:		Relinquished By:	Received By:	Sample Receipt pH OK / Adjusted
Telephone:		Relinquished By:	Received By:	Cooler Custody Seal (Present) <input checked="" type="checkbox"/> Not Present
Fax:		Relinquished By:	Received By:	(Intact) <input checked="" type="checkbox"/> Not Intact
Samples on HOLD are subject to special pricing and release of liability		Relinquished By:	Received By:	

1/7/21 ① cooler
Pace Container Order #752720

40220933

Addresses		Order By :	Ship To :	Return To:	
Company	APEX-IL	Company	APEX-IL	Company	Pace Analytical Green Bay
Contact	Ahmed Ali	Contact	Ahmed Ali	Contact	Woelfel, Laurie
Email		Email		Email	laurie.woelfel@pacelabs.com
Address	300 South Wacker Drive	Address	3425 W 123rd PL	Address	1241 Bellevue Street
Address 2	Suite 630	Address 2		Address 2	Suite 9
City	Chicago	City	Alsip	City	Green Bay
State	IL Zip 60606	State	IL Zip 60803	State	WI Zip 54302
Phone		Phone		Phone	(920)469-2436

Info							
Project Name	Soil	Due Date	01/08/2021	Profile	7073	Quote	
Project Manager	Woelfel, Laurie	Return Date		Carrier	Most Economical	Location	

Trip Blanks

Include Trip Blanks

Bottle Labels

Blank
 Pre-Printed No Sample IDs
 Pre-Printed With Sample IDs

Bottles

Boxed Cases
 Individually Wrapped
 Grouped By Sample ID/Matrix

Return Shipping Labels

No Shipper
 With Shipper

Misc

Sampling Instructions
 Custody Seal
 Temp. Blanks
 Coolers
 Syringes

Extra Bubble Wrap
 Short Hold/Rush Stickers
 DI Water
 USDA Regulated Soils

COC Options

Number of Blanks
 Pre-Printed

# of Samples	Matrix	Test	Container	Total	# of	Lot #	Notes
1	SL	VOC 8260 5035 Low Level Terracore kit with DI Water	(2) DI (1) Meoh - 5 ml in 40 ml vials	3	0	B013901VB, B018803VB	
1	SL	Terracore Sampling Tool	5gr	1	0	T220236	
1	SL	Percent Solids	4 oz poly	1	0	K00603	

Hazard Shipping Placard In Place : NO

*Sample receiving hours are typically 8am-5pm, but may differ by location. Please check with your Pace Project Manager.

*Pace Analytical reserves the right to return hazardous, toxic, or radioactive samples to you.

*Pace Analytical reserves the right to charge for unused bottles, as well as cost associated with sample storage/disposal.

*Payment term are net 30 days.

*Please include the proposal number on the chain of custody to insure proper billing.

LAB USE:

Ship Date :	01/07/2021
Prepared By:	Kathleen
Verified By:	

Sample

CLIENT USE (Optional):

Date Rec'd:	
Received By:	
Verified By:	

Sample Preservation Receipt Form

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: Apex Companies, LLC

Project # 40220933

All containers needing preservation have been checked and noted below: Yes No N/A

Initial when completed:

Date/Time:

Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted):


Page 11

Pace Lab #	Glass						Plastic					Vials				Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)						
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN								
001																																		2.5 / 5 / 10
002																																		2.5 / 5 / 10
003																																		2.5 / 5 / 10
004																																		2.5 / 5 / 10
005																																		2.5 / 5 / 10
006																																		2.5 / 5 / 10
007																																		2.5 / 5 / 10
008																																		2.5 / 5 / 10
009																																		2.5 / 5 / 10
010																																		2.5 / 5 / 10
011																																		2.5 / 5 / 10
012																																		2.5 / 5 / 10
013																																		2.5 / 5 / 10
014																																		2.5 / 5 / 10
015																																		2.5 / 5 / 10
016																																		2.5 / 5 / 10
017																																		2.5 / 5 / 10
018																																		2.5 / 5 / 10
019																																		2.5 / 5 / 10
020																																		2.5 / 5 / 10

MLR
1-13-21

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : Yes No N/A *If yes look in headspace column

AG1U 1 liter amber glass BG1U 1 liter clear glass AG1H 1 liter amber glass HCL AG4S 125 mL amber glass H2SO4 AG4U 120 mL amber glass unpres AG5U 100 mL amber glass unpres AG2S 500 mL amber glass H2SO4 BG3U 250 mL clear glass unpres	BP1U 1 liter plastic unpres BP3U 250 mL plastic unpres BP3B 250 mL plastic NaOH BP3N 250 mL plastic HNO3 BP3S 250 mL plastic H2SO4	VG9A 40 mL clear ascorbic DG9T 40 mL amber Na Thio VG9U 40 mL clear vial unpres VG9H 40 mL clear vial HCL VG9M 40 mL clear vial MeOH VG9D 40 mL clear vial DI	JGFU 4 oz amber jar unpres JG9U 9 oz amber jar unpres WGFU 4 oz clear jar unpres WPFU 4 oz plastic jar unpres SP5T 120 mL plastic Na Thiosulfate ZPLC ziploc bag GN
--	---	--	--

 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Apex Companies, LLC
Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____

Project #: _____

WO#: 40220933



40220933

Tracking #: _____
Custody Seal on Cooler/Box Present: yes no **Seals intact:** yes no
Custody Seal on Samples Present: yes no **Seals intact:** yes no
Packing Material: Bubble Wrap Bubble Bags None Other _____
Thermometer Used SR - n/a **Type of Ice:** Wet Blue Dry None Samples on ice, cooling process has begun
Cooler Temperature Uncorr: ROT Corr: _____
Temp Blank Present: yes no **Biological Tissue is Frozen:** yes no
 Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:
 Date: 1-13-21 Initials: MLR
 Labeled By Initials: NA

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1. <u>1 CC</u>	<u>MLR 1-13-21</u>
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>prej contact, pms., pg #, mail + invoice</u>	
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3. <u>info</u>	<u>MLR 1-13-21</u>
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.	
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date/Time: <u>prev. frozen 1-12-21 0900</u>	<u>MLR 1-13-21</u>
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.	
Sufficient Volume:		8. <u>No dry weight volume received - PM informed</u>	<u>MLR 1-13-21</u>
For Analysis: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.	
- Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
- Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
- Includes date/time/ID/Analysis Matrix: <u>S</u>			
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.	
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased):			

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: (1) NO yea MLR 1-13-21

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir

December 30, 2020

Steve Newlin
Apex Companies, LLC
300 South Wacker Drive
Suite 630
Chicago, IL 60606

RE: Project: FRANKLIN
Pace Project No.: 40220251

Dear Steve Newlin:

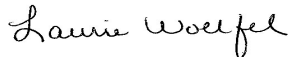
Enclosed are the analytical results for sample(s) received by the laboratory on December 23, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Laurie Woelfel
laurie.woelfel@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: FRANKLIN

Pace Project No.: 40220251

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: FRANKLIN
Pace Project No.: 40220251

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40220251001	MW-01	Water	12/22/20 13:30	12/23/20 09:15
40220251002	MW-02	Water	12/22/20 13:40	12/23/20 09:15
40220251003	MW-03	Water	12/22/20 13:40	12/23/20 09:15
40220251004	TRIP	Water	12/22/20 00:00	12/23/20 09:15

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SAMPLE ANALYTE COUNT

Project: FRANKLIN

Pace Project No.: 40220251

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40220251001	MW-01	EPA 8260	HNW	8	PASI-G
40220251002	MW-02	EPA 8260	HNW	8	PASI-G
40220251003	MW-03	EPA 8260	HNW	8	PASI-G
40220251004	TRIP	EPA 8260	HNW	8	PASI-G

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FRANKLIN

Pace Project No.: 40220251

Sample: MW-01 **Lab ID: 40220251001** Collected: 12/22/20 13:30 Received: 12/23/20 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260 Pace Analytical Services - Green Bay							
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/29/20 15:04	127-18-4	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		12/29/20 15:04	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		12/29/20 15:04	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		12/29/20 15:04	156-59-2	
trans-1,2-Dichloroethene	<0.46	ug/L	1.5	0.46	1		12/29/20 15:04	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		12/29/20 15:04	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		12/29/20 15:04	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		12/29/20 15:04	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FRANKLIN

Pace Project No.: 40220251

Sample: MW-02 **Lab ID: 40220251002** Collected: 12/22/20 13:40 Received: 12/23/20 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/29/20 15:27	127-18-4	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		12/29/20 15:27	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		12/29/20 15:27	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		12/29/20 15:27	156-59-2	
trans-1,2-Dichloroethene	<0.46	ug/L	1.5	0.46	1		12/29/20 15:27	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		12/29/20 15:27	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		12/29/20 15:27	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		12/29/20 15:27	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FRANKLIN

Pace Project No.: 40220251

Sample: MW-03 **Lab ID: 40220251003** Collected: 12/22/20 13:40 Received: 12/23/20 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/29/20 15:50	127-18-4	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		12/29/20 15:50	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		12/29/20 15:50	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		12/29/20 15:50	156-59-2	
trans-1,2-Dichloroethene	<0.46	ug/L	1.5	0.46	1		12/29/20 15:50	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		12/29/20 15:50	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		12/29/20 15:50	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		12/29/20 15:50	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FRANKLIN

Pace Project No.: 40220251

Sample: TRIP **Lab ID: 40220251004** Collected: 12/22/20 00:00 Received: 12/23/20 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/28/20 20:27	127-18-4	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		12/28/20 20:27	79-01-6	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		12/28/20 20:27	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		12/28/20 20:27	156-59-2	
trans-1,2-Dichloroethene	<0.46	ug/L	1.5	0.46	1		12/28/20 20:27	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		12/28/20 20:27	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		12/28/20 20:27	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		12/28/20 20:27	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FRANKLIN
Pace Project No.: 40220251

QC Batch: 374622 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40220251001, 40220251002, 40220251003, 40220251004

METHOD BLANK: 2165091 Matrix: Water
Associated Lab Samples: 40220251001, 40220251002, 40220251003, 40220251004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	12/28/20 16:07	
Tetrachloroethene	ug/L	<0.33	1.1	12/28/20 16:07	
trans-1,2-Dichloroethene	ug/L	<0.46	1.5	12/28/20 16:07	
Trichloroethene	ug/L	<0.26	1.0	12/28/20 16:07	
Vinyl chloride	ug/L	<0.17	1.0	12/28/20 16:07	
4-Bromofluorobenzene (S)	%	98	70-130	12/28/20 16:07	
Dibromofluoromethane (S)	%	102	70-130	12/28/20 16:07	
Toluene-d8 (S)	%	100	70-130	12/28/20 16:07	

LABORATORY CONTROL SAMPLE: 2165092

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	49.1	98	70-130	
Tetrachloroethene	ug/L	50	50.5	101	70-130	
trans-1,2-Dichloroethene	ug/L	50	54.6	109	70-130	
Trichloroethene	ug/L	50	54.3	109	70-130	
Vinyl chloride	ug/L	50	45.2	90	51-140	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			102	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2165481 2165482

Parameter	Units	40220249003		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	% Rec					
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	50.3	48.8	101	98	70-130	3	20		
Tetrachloroethene	ug/L	<0.33	50	50	52.6	50.7	105	101	70-130	4	20		
trans-1,2-Dichloroethene	ug/L	<0.46	50	50	56.2	54.3	112	109	70-130	3	20		
Trichloroethene	ug/L	<0.26	50	50	56.0	53.9	112	108	70-130	4	20		
Vinyl chloride	ug/L	<0.17	50	50	46.0	44.9	92	90	51-140	2	20		
4-Bromofluorobenzene (S)	%						100	100	70-130				
Dibromofluoromethane (S)	%						103	103	70-130				
Toluene-d8 (S)	%						100	100	70-130				

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: FRANKLIN
Pace Project No.: 40220251

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FRANKLIN
Pace Project No.: 40220251

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40220251001	MW-01	EPA 8260	374622		
40220251002	MW-02	EPA 8260	374622		
40220251003	MW-03	EPA 8260	374622		
40220251004	TRIP	EPA 8260	374622		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: **Apex Companies LLC**
 Branch/Location: **Chicago, IL**
 Project Contact: **Steve Newlin**
 Phone: **312-771-7104**
 Project Number: **FRANKLIN**
 Project Name: **FRANKLIN**
 Project State: **WISCONSIN**
 Sampled By (Print): **Ahmed Ali**
 Sampled By (Sign): *[Signature]*
 PO #:

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	MW-01	12/22	13:30	GW
002	MW-02	↓	13:40	GW
003	MW-03	↓	14:10	GW
004	TRIP	-	-	W



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

40220251

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED? (YES/NO)
 PRESERVATION (CODE)*

Y/N	Pick Letter	Analysis Requested	Matrix	Matrix Code	Matrix Code	Matrix Code	Matrix Code	Matrix Code	Matrix Code	Matrix Code	Matrix Code	Matrix Code	Matrix Code	Matrix Code	Matrix Code	Matrix Code	Matrix Code	Matrix Code	Matrix Code	Matrix Code
N	B	Chlorinated VOCs	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW	GW

Quote #:
 Mail To Contact:
 Mail To Company:
 Mail To Address:
 Invoice To Contact:
 Invoice To Company:
 Invoice To Address:
 Invoice To Phone:

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed:
 Transmit Prelim Rush Results by (complete what you want):
 Email #1:
 Email #2:
 Telephone:
 Fax:
 Samples on HOLD are subject to special pricing and release of liability

Relinquished By: **Ahmed Ali (Apex)** Date/Time: **12/22 5:00 PM**
 Relinquished By: **CS Logistics** Date/Time: **12-23-20 09:15**
 Relinquished By:
 Relinquished By:

Received By:
 Received By: **Madeline Z...** Date/Time: **12-23-20 09:15**
 Received By:
 Received By:

PACE Project No. **40220251**
 Receipt Temp = **102** °C
 Sample Receipt pH **OK / Adjusted**
 Cooler Custody Seal **Present / Not Present**
 Intact / Not Intact

Sample Preservation Receipt Form

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 97
Green Bay, WI 54302

Client Name: Apex Companies LLC

Project # 40220251

All containers needing preservation have been checked and noted below: Yes No N/A

Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted):

Initial when completed:

Date/Time:

Page 13 of 17


Pace Lab #	Glass							Plastic					Vials				Jars				General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)				
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T								ZPLC	GN		
001																																		2.5 / 5 / 10
002																																		2.5 / 5 / 10
003																																		2.5 / 5 / 10
004																																		2.5 / 5 / 10
005																																		2.5 / 5 / 10
006																																		2.5 / 5 / 10
007																																		2.5 / 5 / 10
008																																		2.5 / 5 / 10
009																																		2.5 / 5 / 10
010																																		2.5 / 5 / 10
011																																		2.5 / 5 / 10
012																																		2.5 / 5 / 10
013																																		2.5 / 5 / 10
014																																		2.5 / 5 / 10
015																																		2.5 / 5 / 10
016																																		2.5 / 5 / 10
017																																		2.5 / 5 / 10
018																																		2.5 / 5 / 10
019																																		2.5 / 5 / 10
020																																		2.5 / 5 / 10

ML
12-23-00

3
3
3
2

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) Yes No N/A *If yes look in headspace column

AG1U 1 liter amber glass	BP1U 1 liter plastic unpres	VG9A 40 mL clear ascorbic	JGFU 4 oz amber jar unpres
BG1U 1 liter clear glass	BP3U 250 mL plastic unpres	DG9T 40 mL amber Na Thio	JG9U 9 oz amber jar unpres
AG1H 1 liter amber glass HCL	BP3B 250 mL plastic NaOH	VG9U 40 mL clear vial unpres	WGFU 4 oz clear jar unpres
AG4S 125 mL amber glass H2SO4	BP3N 250 mL plastic HNO3	VG9H 40 mL clear vial HCL	WPFU 4 oz plastic jar unpres
AG4U 120 mL amber glass unpres	BP3S 250 mL plastic H2SO4	VG9M 40 mL clear vial MeOH	SP5T 120 mL plastic Na Thiosulfate
AG5U 100 mL amber glass unpres		VG9D 40 mL clear vial DI	ZPLC ziploc bag
AG2S 500 mL amber glass H2SO4			GN
BG3U 250 mL clear glass unpres			

 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Apex Companies LLC
Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____

Project #: _____

WO#: 40220251



Tracking #: _____
Custody Seal on Cooler/Box Present: yes no **Seals intact:** yes no
Custody Seal on Samples Present: yes no **Seals intact:** yes no
Packing Material: Bubble Wrap Bubble Bags None Other
Thermometer Used SR - n/a **Type of Ice:** Wet Blue Dry None Samples on ice, cooling process has begun
Cooler Temperature Uncorr: 60°F / ICorr: _____
Temp Blank Present: yes no **Biological Tissue is Frozen:** yes no

Person examining contents:	
Date: <u>12-23-20</u>	Initials: <u>MLR</u>
Labeled By Initials: <u>AS</u>	

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1. <u>CC</u>	<u>MLR 12-23-20</u>
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>mail - invoice info, pg #</u>	<u>MLR 12-23-20</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3. <u>no year</u>	<u>MLR 12-23-20</u>
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.	
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:	
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.	
Sufficient Volume:		8.	
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A			
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.	
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes date/time/ID/Analysis Matrix: <u>W</u>			
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.	
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased): <u>456</u>			

Client Notification/ Resolution: _____ If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir

January 18, 2021

Steve Newlin
Apex Companies
300 S. Wacker
Chicago, IL 60606

RE: Project: FRANKLIN DECO_2017-101
Pace Project No.: 10544939

Dear Steve Newlin:

Enclosed are the analytical results for sample(s) received by the laboratory on January 14, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Ashley Williams
ashley.williams@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: Ahmed Ali, Apex Companies LLC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: FRANKLIN DECO_2017-101

Pace Project No.: 10544939

Pace Analytical Services - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab

A2LA Certification #: 2926.01*

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009*

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014*

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605*

Georgia Certification #: 959

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: AI-03086*

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064*

Maryland Certification #: 322

Massachusetts DWP Certification #: via MN 027-053-137

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137*

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240*

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081*

New Jersey Certification #: MN002

New York Certification #: 11647*

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507*

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001*

Pennsylvania Certification #: 68-00563*

Puerto Rico Certification #: MN00064

South Carolina Certification #:74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192*

Utah Certification #: MN00064*

Vermont Certification #: VT-027053137

Virginia Certification #: 460163*

Washington Certification #: C486*

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

USDA Permit #: P330-19-00208

Please Note: Applicable air certifications are denoted with an asterisk ().

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: FRANKLIN DECO_2017-101

Pace Project No.: 10544939

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10544939001	AA-01-INDOOR	Air	01/11/21 18:45	01/14/21 09:30
10544939002	AA-02-OUTDOOR	Air	01/11/21 18:45	01/14/21 09:30
10544939003	SV-7	Air	01/11/21 12:01	01/14/21 09:30
10544939004	SV-4	Air	01/11/21 12:04	01/14/21 09:30
10544939005	SV-8	Air	01/11/21 12:14	01/14/21 09:30
10544939006	SV-5	Air	01/11/21 12:27	01/14/21 09:30
10544939007	SV-6	Air	01/11/21 12:28	01/14/21 09:30
10544939008	SV-1	Air	01/11/21 12:35	01/14/21 09:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: FRANKLIN DECO_2017-101

Pace Project No.: 10544939

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10544939001	AA-01-INDOOR	TO-15	MJL	5	PASI-M
10544939002	AA-02-OUTDOOR	TO-15	MJL	5	PASI-M
10544939003	SV-7	TO-15	MJL	5	PASI-M
10544939004	SV-4	TO-15	MJL	5	PASI-M
10544939005	SV-8	TO-15	MJL	5	PASI-M
10544939006	SV-5	TO-15	MJL	5	PASI-M
10544939007	SV-6	TO-15	MJL	5	PASI-M
10544939008	SV-1	TO-15	MJL	5	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FRANKLIN DECO_2017-101

Pace Project No.: 10544939

Sample: AA-01-INDOOR Lab ID: 10544939001 Collected: 01/11/21 18:45 Received: 01/14/21 09:30 Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15 Pace Analytical Services - Minneapolis									
cis-1,2-Dichloroethene	<0.22	ug/m3	1.2	0.22	1.49		01/15/21 22:30	156-59-2	
trans-1,2-Dichloroethene	<0.21	ug/m3	1.2	0.21	1.49		01/15/21 22:30	156-60-5	
Tetrachloroethene	<0.49	ug/m3	1.0	0.49	1.49		01/15/21 22:30	127-18-4	
Trichloroethene	<0.25	ug/m3	0.81	0.25	1.49		01/15/21 22:30	79-01-6	
Vinyl chloride	<0.085	ug/m3	0.39	0.085	1.49		01/15/21 22:30	75-01-4	

Sample: AA-02-OUTDOOR Lab ID: 10544939002 Collected: 01/11/21 18:45 Received: 01/14/21 09:30 Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15 Pace Analytical Services - Minneapolis									
cis-1,2-Dichloroethene	<0.21	ug/m3	1.1	0.21	1.41		01/15/21 22:57	156-59-2	
trans-1,2-Dichloroethene	<0.20	ug/m3	1.1	0.20	1.41		01/15/21 22:57	156-60-5	
Tetrachloroethene	<0.46	ug/m3	0.97	0.46	1.41		01/15/21 22:57	127-18-4	
Trichloroethene	<0.24	ug/m3	0.77	0.24	1.41		01/15/21 22:57	79-01-6	
Vinyl chloride	<0.080	ug/m3	0.37	0.080	1.41		01/15/21 22:57	75-01-4	

Sample: SV-7 Lab ID: 10544939003 Collected: 01/11/21 12:01 Received: 01/14/21 09:30 Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15 Pace Analytical Services - Minneapolis									
cis-1,2-Dichloroethene	<0.22	ug/m3	1.2	0.22	1.49		01/15/21 23:24	156-59-2	
trans-1,2-Dichloroethene	<0.21	ug/m3	1.2	0.21	1.49		01/15/21 23:24	156-60-5	
Tetrachloroethene	<0.49	ug/m3	1.0	0.49	1.49		01/15/21 23:24	127-18-4	
Trichloroethene	<0.25	ug/m3	0.81	0.25	1.49		01/15/21 23:24	79-01-6	
Vinyl chloride	<0.085	ug/m3	0.39	0.085	1.49		01/15/21 23:24	75-01-4	

Sample: SV-4 Lab ID: 10544939004 Collected: 01/11/21 12:04 Received: 01/14/21 09:30 Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15 Pace Analytical Services - Minneapolis									
cis-1,2-Dichloroethene	<0.22	ug/m3	1.2	0.22	1.49		01/16/21 02:04	156-59-2	
trans-1,2-Dichloroethene	<0.21	ug/m3	1.2	0.21	1.49		01/16/21 02:04	156-60-5	
Tetrachloroethene	254	ug/m3	1.0	0.49	1.49		01/16/21 02:04	127-18-4	
Trichloroethene	0.64J	ug/m3	0.81	0.25	1.49		01/16/21 02:04	79-01-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FRANKLIN DECO_2017-101

Pace Project No.: 10544939

Sample: SV-4 **Lab ID: 10544939004** Collected: 01/11/21 12:04 Received: 01/14/21 09:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15 Pace Analytical Services - Minneapolis									
Vinyl chloride	<0.085	ug/m3	0.39	0.085	1.49		01/16/21 02:04	75-01-4	

Sample: SV-8 **Lab ID: 10544939005** Collected: 01/11/21 12:14 Received: 01/14/21 09:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15 Pace Analytical Services - Minneapolis									
cis-1,2-Dichloroethene	<0.22	ug/m3	1.2	0.22	1.46		01/15/21 23:51	156-59-2	
trans-1,2-Dichloroethene	<0.21	ug/m3	1.2	0.21	1.46		01/15/21 23:51	156-60-5	
Tetrachloroethene	61.6	ug/m3	1.0	0.48	1.46		01/15/21 23:51	127-18-4	
Trichloroethene	<0.25	ug/m3	0.80	0.25	1.46		01/15/21 23:51	79-01-6	
Vinyl chloride	<0.083	ug/m3	0.38	0.083	1.46		01/15/21 23:51	75-01-4	

Sample: SV-5 **Lab ID: 10544939006** Collected: 01/11/21 12:27 Received: 01/14/21 09:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15 Pace Analytical Services - Minneapolis									
cis-1,2-Dichloroethene	0.93J	ug/m3	1.1	0.21	1.39		01/16/21 00:17	156-59-2	
trans-1,2-Dichloroethene	<0.20	ug/m3	1.1	0.20	1.39		01/16/21 00:17	156-60-5	
Tetrachloroethene	128	ug/m3	0.96	0.46	1.39		01/16/21 00:17	127-18-4	
Trichloroethene	12.1	ug/m3	0.76	0.23	1.39		01/16/21 00:17	79-01-6	
Vinyl chloride	<0.079	ug/m3	0.36	0.079	1.39		01/16/21 00:17	75-01-4	

Sample: SV-6 **Lab ID: 10544939007** Collected: 01/11/21 12:28 Received: 01/14/21 09:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15 Pace Analytical Services - Minneapolis									
cis-1,2-Dichloroethene	<0.20	ug/m3	1.1	0.20	1.34		01/16/21 00:44	156-59-2	
trans-1,2-Dichloroethene	<0.19	ug/m3	1.1	0.19	1.34		01/16/21 00:44	156-60-5	
Tetrachloroethene	0.46J	ug/m3	0.92	0.44	1.34		01/16/21 00:44	127-18-4	
Trichloroethene	<0.23	ug/m3	0.73	0.23	1.34		01/16/21 00:44	79-01-6	
Vinyl chloride	<0.076	ug/m3	0.35	0.076	1.34		01/16/21 00:44	75-01-4	

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ANALYTICAL RESULTS

Project: FRANKLIN DECO_2017-101

Pace Project No.: 10544939

Sample: SV-1 **Lab ID: 10544939008** Collected: 01/11/21 12:35 Received: 01/14/21 09:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
cis-1,2-Dichloroethene	<0.22	ug/m3	1.2	0.22	1.49		01/16/21 01:11	156-59-2	
trans-1,2-Dichloroethene	<0.21	ug/m3	1.2	0.21	1.49		01/16/21 01:11	156-60-5	
Tetrachloroethene	<0.49	ug/m3	1.0	0.49	1.49		01/16/21 01:11	127-18-4	
Trichloroethene	<0.25	ug/m3	0.81	0.25	1.49		01/16/21 01:11	79-01-6	
Vinyl chloride	<0.085	ug/m3	0.39	0.085	1.49		01/16/21 01:11	75-01-4	

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QUALITY CONTROL DATA

Project: FRANKLIN DECO_2017-101
Pace Project No.: 10544939

QC Batch:	720504	Analysis Method:	TO-15
QC Batch Method:	TO-15	Analysis Description:	TO15 MSV AIR Low Level
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10544939001, 10544939002, 10544939003, 10544939004, 10544939005, 10544939006, 10544939007, 10544939008

METHOD BLANK: 3843261 Matrix: Air
Associated Lab Samples: 10544939001, 10544939002, 10544939003, 10544939004, 10544939005, 10544939006, 10544939007, 10544939008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/m3	<0.15	0.81	01/15/21 12:25	
Tetrachloroethene	ug/m3	<0.33	0.69	01/15/21 12:25	
trans-1,2-Dichloroethene	ug/m3	<0.14	0.81	01/15/21 12:25	
Trichloroethene	ug/m3	<0.17	0.55	01/15/21 12:25	
Vinyl chloride	ug/m3	<0.057	0.26	01/15/21 12:25	

LABORATORY CONTROL SAMPLE: 3843262

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/m3	41.6	44.0	106	70-130	
Tetrachloroethene	ug/m3	71	69.0	97	68-130	
trans-1,2-Dichloroethene	ug/m3	42.2	45.0	107	70-130	
Trichloroethene	ug/m3	56.3	59.8	106	70-130	
Vinyl chloride	ug/m3	26.7	30.7	115	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: FRANKLIN DECO_2017-101

Pace Project No.: 10544939

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FRANKLIN DECO_2017-101
Pace Project No.: 10544939

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10544939001	AA-01-INDOOR	TO-15	720504		
10544939002	AA-02-OUTDOOR	TO-15	720504		
10544939003	SV-7	TO-15	720504		
10544939004	SV-4	TO-15	720504		
10544939005	SV-8	TO-15	720504		
10544939006	SV-5	TO-15	720504		
10544939007	SV-6	TO-15	720504		
10544939008	SV-1	TO-15	720504		

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

42751

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	Program <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other
Company: APEX COMPANIES, LLC	Report To: STEVE NEWLIN	Attention: SAME	Reporting Units ug/m ³ _____ mg/m ³ _____ PPBV _____ PPMV _____ Other _____
Address: 360 S WACKER DR STE 630	Copy To:	Company Name:	
Email To: STEVE.NEWLIN@APEXUS.COM	Purchase Order No.:	Address:	Location of Sampling by State _____
Phone: 847-687-8095	Project Name: FRANKLIN	Pace Quote Reference:	Report Level: <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/> Other _____
Requested Due Date/TAT: STANDARD	Project Number: PECO_2017-101	Pace Project Manager/Sales Rep.:	Method: PM10 3c - Fixed Gas (%) TO-3 BTEX TO-3M (Methane) TO-14 TO-15 Full List VOCs TO-15 Short List BTEX TO-15 Short List Chlorinated (other)
		Pace Profile #: 41688	Pace Lab ID

ITEM #	'Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Codes MEDIA CODE Tedlar Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10	MEDIA CODE	PID Reading (Client only)	COLLECTED				Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method:							
					COMPOSITE START		COMPOSITE - END/GRAB						PM10	3c - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated (other)
					DATE	TIME	DATE	TIME												
1	AA-01-INDOOR		GLC		01/11	11:13	01/11	18:45	-28	-5	1671	0215								
2	AA-02-OUTDOOR					11:16		18:45	-30	-5	3334	1966								
3	SV-7					11:24		12:01	-29	-4	1694	2748								
4	SV-4					11:28		12:04	-30	-5	0794	2667								
5	SV-8					11:37		12:14	-30	-5	1224	0728								
6	SV-5					11:45		12:27	-29	-2	1682	1854								
7	SV-6					11:48		12:28	-30	-2	3873	2677								
8	SV-1					12:00		12:35	-29	-5	1038	2652								

Comments :	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
	Ahmed Ali (APEX)	01/11	8:45 AM	Melissa Pace	11/20	9:30	/	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

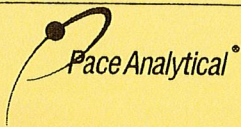
WO#: 10544939



10544939

ORIGINAL

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:	DATE Signed (MM / DD / YY)				



Document Name: Sample Condition Upon Receipt (SCUR) - Air

Document Revised: 24Mar2020

Page 1 of 1

Document No.: ENV-FRM-MIN4-0113 Rev.00

Pace Analytical Services - Minneapolis

Air Sample Condition Upon Receipt

Client Name: Apex

Project #:

WO#: 10544939

PM: AW1

Due Date: 01/21/21

CLIENT: Apex CO LLC

Courier: [X] Fed Ex [] UPS [] USPS [] Client [] Pace [] SpeeDee [] Commercial See Exception []

Tracking Number: 1723 2948 7187 & 7195

Custody Seal on Cooler/Box Present? [X] Yes [] No Seals Intact? [X] Yes [] No

Packing Material: [] Bubble Wrap [] Bubble Bags [X] Foam [] None [] Tin Can [] Other: Temp Blank rec: [] Yes [X] No

Temp. (TO17 and TO13 samples only) (°C): Corrected Temp (°C): Thermometer Used: [] G87A9170600254 [] G87A9155100842

Temp should be above freezing to 6°C Correction Factor: Date & Initials of Person Examining Contents: M 11421

Type of ice Received [] Blue [] Wet [X] None

Comments:

Table with 13 rows of custody and inspection questions. Includes checkboxes for Yes/No and handwritten notes like 'SV-6 tagsays 12:37 for time' and 'Col says 12:28'.

Gauge # [] 10AIR26 [X] 10AIR34 [] 10AIR35 [] 4097

Canisters

Canisters

Table with 10 columns: Sample Number, Can ID, Flow Controller, Initial Pressure, Final Pressure. Contains handwritten data for samples AA-01, AA-02, SV-7, 4, 8, 5, 6, 1.

CLIENT NOTIFICATION/RESOLUTION

DM 11421

Field Data Required? [] Yes [] No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review:

Ashley Williams

Date: 1/14/21

Page 12 of 12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

APPENDIX B

Sub-Slab Vapor and Air Logs



SOIL-VAPOR IMPLANT SAMPLE LOG

Project Name: <u>Additional Phase II Franklin</u>	Project Number: <u>PECO 2017-101</u>
Soil-Vapor Implant Installation Date: <u>NA</u>	Project Address: <u>7249 South 76th Street</u>
Soil-Vapor Sample Date: <u>NA</u>	<u>Franklin, Milwaukee County, Wisconsin</u>

SAMPLING INFORMATION

Soil-Vapor Implant Purge Air: <u>0.0</u> <u>2.5</u> Stabilized PID Reading (PPM) Volume (liters)	Sample Start Time: <u>January 11, 2021</u> <u>11:13</u> DATE TIME
Leak Test Method: <u>NA</u> <u>NA</u> Sample Train Soil-Vapor Implant	Sample End Time: <u>January 11, 2021</u> <u>18:45</u> DATE TIME
Shut-in Test: <u>NA</u> <u>NA</u> Max. Vacuum (inches Hg) Test Duration (seconds)	Canister Vacuum: <u>-28</u> <u>-5</u> Initial (Inches Hg) Final (Inches Hg)
Leak Test Notes: <u>NA</u> Shut-in Test	Analysis Details: <u>Pace Analytical</u> <u>Minneapolis, MN</u> Laboratory Location
<u>NA</u> Water Dam	Sample Delivery: <u>January 11, 2021</u> <u>21:00</u> DATE TIME
Sample Container Details: <u>6</u> <u>480</u> Volume (liters) Flow Controller (minutes)	Delivery Method (FedEx, courier, etc.): <u>FedEx</u>

METEOROLOGICAL CONDITIONS FOR SAMPLING DAY

Ambient Temperature (°F): <u>20</u> <u>31</u> Low High	Sea Level Pressure (inches): <u>20</u>
Average Wind: <u>WSW</u> <u>13</u> Direction Velocity (mph)	Average Humidity (%): <u>80</u>

ADDITIONAL DETAILS

Other details of Site (e.g. recent construction/renovation, cleaning activities, chemical storage, slab/foundation cracks, HVAC status etc.):

Indoor Ambient

Problems or inconsistencies encountered during sampling:

* Include a site sketch on separate sheet noting sample locations (with measurements), chemical storage areas, former operations areas, etc.

Sample Number: <u>AA-01</u>	Analysis: <u>TO-15 Chlorinated Short List</u>
SUMMA ID Number: <u>[Redacted]</u>	Requested Turnaround Time: <u>Standard</u>
Regulator ID Number: <u>[Redacted]</u>	Sample Crew: <u>Ahmed Ali</u>



SOIL-VAPOR IMPLANT SAMPLE LOG

Project Name: <u>Additional Phase II Franklin</u>	Project Number: <u>PECO 2017-101</u>
Soil-Vapor Implant Installation Date: <u>January 11, 2021</u>	Project Address: <u>7249 South 76th Street</u>
Soil-Vapor Sample Date: <u>January 11, 2021</u>	<u>Franklin, Milwaukee County, Wisconsin</u>

SAMPLING INFORMATION

Soil-Vapor Implant Purge Air: <u>0.0</u> <u>2.5</u> <small>Stabilized PID Reading (PPM) Volume (liters)</small>	Sample Start Time: <u>January 11, 2021</u> <u>11:16</u> <small>DATE TIME</small>
Leak Test Method: <u>NA</u> <u>NA</u> <small>Sample Train Soil-Vapor Implant</small>	Sample End Time: <u>January 11, 2021</u> <u>18:45</u> <small>DATE TIME</small>
Shut-in Test: <u>NA</u> <u>NA</u> <small>Max. Vacuum (inches Hg) Test Duration (seconds)</small>	Canister Vacuum: <u>-30</u> <u>-5</u> <small>Initial (Inches Hg) Final (Inches Hg)</small>
Leak Test Notes: <u>NA</u> <small>Shut-in Test</small>	Analysis Details: <u>Pace Analytical</u> <u>Minneapolis, MN</u> <small>Laboratory Location</small>
<u>NA</u> <small>Water Dam</small>	Sample Delivery: <u>January 11, 2021</u> <u>21:00</u> <small>DATE TIME</small>
Sample Container Details: <u>6</u> <u>480</u> <small>Volume (liters) Flow Controller (minutes)</small>	Delivery Method (FedEx, courier, etc.): <u>FedEx</u>

METEOROLOGICAL CONDITIONS FOR SAMPLING DAY

Ambient Temperature (°F): <u>20</u> <u>31</u> <small>Low High</small>	Sea Level Pressure (inches): <u>20</u>
Average Wind: <u>WSW</u> <u>13</u> <small>Direction Velocity (mph)</small>	Average Humidity (%): <u>80</u>

ADDITIONAL DETAILS

Other details of Site (e.g. recent construction/renovation, cleaning activities, chemical storage, slab/foundation cracks, HVAC status etc.):

Outdoor Ambient Sample By exterior door.

Problems or inconsistencies encountered during sampling:

* Include a site sketch on separate sheet noting sample locations (with measurements), chemical storage areas, former operations areas, etc.

Sample Number: <u>AA-02</u>	Analysis: <u>TO-15 Chlorinated Short List</u>
SUMMA ID Number: <u>[Redacted]</u>	Requested Turnaround Time: <u>Standard</u>
Regulator ID Number: <u>[Redacted]</u>	Sample Crew: <u>Ahmed Ali</u>



SOIL-VAPOR IMPLANT SAMPLE LOG

Project Name: <u>Additional Phase II Franklin</u>	Project Number: <u>PECO 2017-101</u>
Soil-Vapor Implant Installation Date: <u>January 11, 2021</u>	Project Address: <u>7249 South 76th Street</u>
Soil-Vapor Sample Date: <u>January 11, 2021</u>	<u>Franklin, Milwaukee County, Wisconsin</u>

SAMPLING INFORMATION

Soil-Vapor Implant Purge Air: <u>0.0</u> <u>2.5</u> <small>Stabilized PID Reading (PPM) Volume (liters)</small>	Sample Start Time: <u>January 11, 2021</u> <u>12:00</u> <small>DATE TIME</small>
Leak Test Method: <u>Shut-in Test</u> <u>Water Dam</u> <small>Sample Train Soil-Vapor Implant</small>	Sample End Time: <u>January 11, 2021</u> <u>12:35</u> <small>DATE TIME</small>
Shut-in Test: <u>60</u> <small>Max. Vacuum (inches Hg) Test Duration (seconds)</small>	Canister Vacuum: <u>-29</u> <u>-5</u> <small>Initial (Inches Hg) Final (Inches Hg)</small>
Leak Test Notes: <u>Pass</u> <small>Shut-in Test</small>	Analysis Details: <u>Pace Analytical</u> <u>Minneapolis, MN</u> <small>Laboratory Location</small>
<u>Pass</u> <small>Water Dam</small>	Sample Delivery: <u>January 11, 2021</u> <u>21:00</u> <small>DATE TIME</small>
Sample Container Details: <u>6</u> <u>30</u> <small>Volume (liters) Flow Controller (minutes)</small>	Delivery Method (FedEx, courier, etc.): <u>FedEx</u>

METEOROLOGICAL CONDITIONS FOR SAMPLING DAY

Ambient Temperature (°F): <u>20</u> <u>31</u> <small>Low High</small>	Sea Level Pressure (inches): <u>20</u>
Average Wind: <u>WSW</u> <u>13</u> <small>Direction Velocity (mph)</small>	Average Humidity (%): <u>80</u>

ADDITIONAL DETAILS

Other details of Site (e.g. recent construction/renovation, cleaning activities, chemical storage, slab/foundation cracks, HVAC status etc.):

Northern Suction Point in storage room.

Problems or inconsistencies encountered during sampling:

* Include a site sketch on separate sheet noting sample locations (with measurements), chemical storage areas, former operations areas, etc.

Sample Number: <u>SV-1</u>	Analysis: <u>TO-15 Chlorinated Short List</u>
SUMMA ID Number: <u>[Redacted]</u>	Requested Turnaround Time: <u>Standard</u>
Regulator ID Number: <u>[Redacted]</u>	Sample Crew: <u>Ahmed Ali</u>



SOIL-VAPOR IMPLANT SAMPLE LOG

Project Name: <u>Additional Phase II Franklin</u>	Project Number: <u>PECO 2017-101</u>
Soil-Vapor Implant Installation Date: <u>January 11, 2021</u>	Project Address: <u>7249 South 76th Street</u>
Soil-Vapor Sample Date: <u>January 11, 2021</u>	<u>Franklin, Milwaukee County, Wisconsin</u>

SAMPLING INFORMATION

Soil-Vapor Implant Purge Air: <u>0.0</u> <u>2.5</u> <small>Stabilized PID Reading (PPM) Volume (liters)</small>	Sample Start Time: <u>January 11, 2021</u> <u>11:28</u> <small>DATE TIME</small>
Leak Test Method: <u>Shut-in Test</u> <u>Water Dam</u> <small>Sample Train Soil-Vapor Implant</small>	Sample End Time: <u>January 11, 2021</u> <u>12:04</u> <small>DATE TIME</small>
Shut-in Test: <u>-30</u> <u>60</u> <small>Max. Vacuum (inches Hg) Test Duration (seconds)</small>	Canister Vacuum: <u>-30</u> <u>-5</u> <small>Initial (Inches Hg) Final (Inches Hg)</small>
Leak Test Notes: <u>Pass</u> <small>Shut-in Test</small>	Analysis Details: <u>Pace Analytical</u> <u>Minneapolis, MN</u> <small>Laboratory Location</small>
<u>Pass</u> <small>Water Dam</small>	Sample Delivery: <u>January 11, 2021</u> <u>21:00</u> <small>DATE TIME</small>
Sample Container Details: <u>6</u> <u>30</u> <small>Volume (liters) Flow Controller (minutes)</small>	Delivery Method (FedEx, courier, etc.): <u>FedEx</u>

METEOROLOGICAL CONDITIONS FOR SAMPLING DAY

Ambient Temperature (°F): <u>20</u> <u>31</u> <small>Low High</small>	Sea Level Pressure (inches): <u>20</u>
Average Wind: <u>WSW</u> <u>13</u> <small>Direction Velocity (mph)</small>	Average Humidity (%): <u>80</u>

ADDITIONAL DETAILS

Other details of Site (e.g. recent construction/renovation, cleaning activities, chemical storage, slab/foundation cracks, HVAC status etc.):

Front area of CBD store.

Problems or inconsistencies encountered during sampling:

* Include a site sketch on separate sheet noting sample locations (with measurements), chemical storage areas, former operations areas, etc.

Sample Number: <u>SV-4</u>	Analysis: <u>TO-15 Chlorinated Short List</u>
SUMMA ID Number: <u>[REDACTED]</u>	Requested Turnaround Time: <u>Standard</u>
Regulator ID Number: <u>[REDACTED]</u>	Sample Crew: <u>Ahmed Ali</u>



SOIL-VAPOR IMPLANT SAMPLE LOG

Project Name: <u>Additional Phase II Franklin</u>	Project Number: <u>PECO 2017-101</u>
Soil-Vapor Implant Installation Date: <u>January 11, 2021</u>	Project Address: <u>7249 South 76th Street</u>
Soil-Vapor Sample Date: <u>January 11, 2021</u>	<u>Franklin, Milwaukee County, Wisconsin</u>

SAMPLING INFORMATION

Soil-Vapor Implant Purge Air: <u>0.0</u> <u>2.5</u> <small>Stabilized PID Reading (PPM) Volume (liters)</small>	Sample Start Time: <u>January 11, 2021</u> <u>11:45</u> <small>DATE TIME</small>
Leak Test Method: <u>Shut-in Test</u> <u>Water Dam</u> <small>Sample Train Soil-Vapor Implant</small>	Sample End Time: <u>January 11, 2021</u> <u>12:27</u> <small>DATE TIME</small>
Shut-in Test: <u>-29</u> <u>60</u> <small>Max. Vacuum (inches Hg) Test Duration (seconds)</small>	Canister Vacuum: <u>-29</u> <u>-2</u> <small>Initial (Inches Hg) Final (Inches Hg)</small>
Leak Test Notes: <u>Pass</u> <small>Shut-in Test</small>	Analysis Details: <u>Pace Analytical</u> <u>Minneapolis, MN</u> <small>Laboratory Location</small>
<u>Pass</u> <small>Water Dam</small>	Sample Delivery: <u>January 11, 2021</u> <u>21:00</u> <small>DATE TIME</small>
Sample Container Details: <u>6</u> <u>30</u> <small>Volume (liters) Flow Controller (minutes)</small>	Delivery Method (FedEx, courier, etc.): <u>FedEx</u>

METEOROLOGICAL CONDITIONS FOR SAMPLING DAY

Ambient Temperature (°F): <u>20</u> <u>31</u> <small>Low High</small>	Sea Level Pressure (inches): <u>20</u>
Average Wind: <u>WSW</u> <u>13</u> <small>Direction Velocity (mph)</small>	Average Humidity (%): <u>80</u>

ADDITIONAL DETAILS

Other details of Site (e.g. recent construction/renovation, cleaning activities, chemical storage, slab/foundation cracks, HVAC status etc.):

Vision Store Storage Area, south area of store.

Problems or inconsistencies encountered during sampling:

* Include a site sketch on separate sheet noting sample locations (with measurements), chemical storage areas, former operations areas, etc.

Sample Number: <u>SV-5</u>	Analysis: <u>TO-15 Chlorinated Short List</u>
SUMMA ID Number: <u>[Redacted]</u>	Requested Turnaround Time: <u>Standard</u>
Regulator ID Number: <u>[Redacted]</u>	Sample Crew: <u>Ahmed Ali</u>



SOIL-VAPOR IMPLANT SAMPLE LOG

Project Name: <u>Additional Phase II Franklin</u>	Project Number: <u>PECO 2017-101</u>
Soil-Vapor Implant Installation Date: <u>January 11, 2021</u>	Project Address: <u>7249 South 76th Street</u>
Soil-Vapor Sample Date: <u>January 11, 2021</u>	<u>Franklin, Milwaukee County, Wisconsin</u>

SAMPLING INFORMATION

Soil-Vapor Implant Purge Air: <u>0.0</u> <u>2.5</u> <small>Stabilized PID Reading (PPM) Volume (liters)</small>	Sample Start Time: <u>January 11, 2021</u> <u>11:48</u> <small>DATE TIME</small>
Leak Test Method: <u>Shut-in Test</u> <u>Water Dam</u> <small>Sample Train Soil-Vapor Implant</small>	Sample End Time: <u>January 11, 2021</u> <u>12:28</u> <small>DATE TIME</small>
Shut-in Test: <u>-30</u> <u>60</u> <small>Max. Vacuum (inches Hg) Test Duration (seconds)</small>	Canister Vacuum: <u>-30</u> <u>-2</u> <small>Initial (Inches Hg) Final (Inches Hg)</small>
Leak Test Notes: <u>Pass</u> <small>Shut-in Test</small>	Analysis Details: <u>Pace Analytical</u> <u>Minneapolis, MN</u> <small>Laboratory Location</small>
<u>Pass</u> <small>Water Dam</small>	Sample Delivery: <u>January 11, 2021</u> <u>21:00</u> <small>DATE TIME</small>
Sample Container Details: <u>6</u> <u>30</u> <small>Volume (liters) Flow Controller (minutes)</small>	Delivery Method (FedEx, courier, etc.): <u>FedEx</u>

METEOROLOGICAL CONDITIONS FOR SAMPLING DAY

Ambient Temperature (°F): <u>20</u> <u>31</u> <small>Low High</small>	Sea Level Pressure (inches): <u>20</u>
Average Wind: <u>WSW</u> <u>13</u> <small>Direction Velocity (mph)</small>	Average Humidity (%): <u>80</u>

ADDITIONAL DETAILS

Other details of Site (e.g. recent construction/renovation, cleaning activities, chemical storage, slab/foundation cracks, HVAC status etc.):

Pizza Hut, southern area of kitchen.

Problems or inconsistencies encountered during sampling:

* Include a site sketch on separate sheet noting sample locations (with measurements), chemical storage areas, former operations areas, etc.

Sample Number: <u>SV-6</u>	Analysis: <u>TO-15 Chlorinated Short List</u>
SUMMA ID Number: <u>[Redacted]</u>	Requested Turnaround Time: <u>Standard</u>
Regulator ID Number: <u>[Redacted]</u>	Sample Crew: <u>Ahmed Ali</u>



SOIL-VAPOR IMPLANT SAMPLE LOG

Project Name: <u>Additional Phase II Franklin</u>	Project Number: <u>PECO 2017-101</u>
Soil-Vapor Implant Installation Date: <u>January 11, 2021</u>	Project Address: <u>7249 South 76th Street</u>
Soil-Vapor Sample Date: <u>January 11, 2021</u>	<u>Franklin, Milwaukee County, Wisconsin</u>

SAMPLING INFORMATION

Soil-Vapor Implant Purge Air: <u>0.0</u> <u>2.5</u> <small>Stabilized PID Reading (PPM) Volume (liters)</small>	Sample Start Time: <u>January 11, 2021</u> <u>11:24</u> <small>DATE TIME</small>
Leak Test Method: <u>Shut-in Test</u> <u>Water Dam</u> <small>Sample Train Soil-Vapor Implant</small>	Sample End Time: <u>January 11, 2021</u> <u>12:01</u> <small>DATE TIME</small>
Shut-in Test: <u>-29</u> <u>60</u> <small>Max. Vacuum (inches Hg) Test Duration (seconds)</small>	Canister Vacuum: <u>-29</u> <u>-4</u> <small>Initial (Inches Hg) Final (Inches Hg)</small>
Leak Test Notes: <u>Pass</u> <small>Shut-in Test</small>	Analysis Details: <u>Pace Analytical</u> <u>Minneapolis, MN</u> <small>Laboratory Location</small>
<u>Pass</u> <small>Water Dam</small>	Sample Delivery: <u>January 11, 2021</u> <u>21:00</u> <small>DATE TIME</small>
Sample Container Details: <u>6</u> <u>30</u> <small>Volume (liters) Flow Controller (minutes)</small>	Delivery Method (FedEx, courier, etc.): <u>FedEx</u>

METEOROLOGICAL CONDITIONS FOR SAMPLING DAY

Ambient Temperature (°F): <u>20</u> <u>31</u> <small>Low High</small>	Sea Level Pressure (inches): <u>20</u>
Average Wind: <u>WSW</u> <u>13</u> <small>Direction Velocity (mph)</small>	Average Humidity (%): <u>80</u>

ADDITIONAL DETAILS

Other details of Site (e.g. recent construction/renovation, cleaning activities, chemical storage, slab/foundation cracks, HVAC status etc.):

Storage room by south suction point.

Problems or inconsistencies encountered during sampling:

* Include a site sketch on separate sheet noting sample locations (with measurements), chemical storage areas, former operations areas, etc.

Sample Number: <u>SV-7</u>	Analysis: <u>TO-15 Chlorinated Short List</u>
SUMMA ID Number: <u>[Redacted]</u>	Requested Turnaround Time: <u>Standard</u>
Regulator ID Number: <u>[Redacted]</u>	Sample Crew: <u>Ahmed Ali</u>



SOIL-VAPOR IMPLANT SAMPLE LOG

Project Name: <u>Additional Phase II Franklin</u>	Project Number: <u>PECO 2017-101</u>
Soil-Vapor Implant Installation Date: <u>January 11, 2021</u>	Project Address: <u>7249 South 76th Street</u>
Soil-Vapor Sample Date: <u>January 11, 2021</u>	<u>Franklin, Milwaukee County, Wisconsin</u>

SAMPLING INFORMATION

Soil-Vapor Implant Purge Air: <u>0.0</u> <u>2.5</u> <small>Stabilized PID Reading (PPM) Volume (liters)</small>	Sample Start Time: <u>January 11, 2021</u> <u>11:37</u> <small>DATE TIME</small>
Leak Test Method: <u>Shut-in Test</u> <u>Water Dam</u> <small>Sample Train Soil-Vapor Implant</small>	Sample End Time: <u>January 11, 2021</u> <u>12:14</u> <small>DATE TIME</small>
Shut-in Test: <u>-30</u> <u>60</u> <small>Max. Vacuum (inches Hg) Test Duration (seconds)</small>	Canister Vacuum: <u>-30</u> <u>-5</u> <small>Initial (Inches Hg) Final (Inches Hg)</small>
Leak Test Notes: <u>Pass</u> <small>Shut-in Test</small>	Analysis Details: <u>Pace Analytical</u> <u>Minneapolis, MN</u> <small>Laboratory Location</small>
<u>Pass</u> <small>Water Dam</small>	Sample Delivery: <u>January 11, 2021</u> <u>21:00</u> <small>DATE TIME</small>
Sample Container Details: <u>6</u> <u>30</u> <small>Volume (liters) Flow Controller (minutes)</small>	Delivery Method (FedEx, courier, etc.): <u>FedEx</u>

METEOROLOGICAL CONDITIONS FOR SAMPLING DAY

Ambient Temperature (°F): <u>20</u> <u>31</u> <small>Low High</small>	Sea Level Pressure (inches): <u>20</u>
Average Wind: <u>WSW</u> <u>13</u> <small>Direction Velocity (mph)</small>	Average Humidity (%): <u>80</u>

ADDITIONAL DETAILS

Other details of Site (e.g. recent construction/renovation, cleaning activities, chemical storage, slab/foundation cracks, HVAC status etc.):

Restroom

Problems or inconsistencies encountered during sampling:

* Include a site sketch on separate sheet noting sample locations (with measurements), chemical storage areas, former operations areas, etc.

Sample Number: <u>SV-8</u>	Analysis: <u>TO-15 Chlorinated Short List</u>
SUMMA ID Number: <u>[Redacted]</u>	Requested Turnaround Time: <u>Standard</u>
Regulator ID Number: <u>[Redacted]</u>	Sample Crew: <u>Ahmed Ali</u>