



FOCUSED SUBSURFACE SITE INVESTIGATION

**1202 MCDONALD AVENUE
BROOKLYN, NEW YORK 11230**

**PREPARED FOR
RIDGEWOOD SAVINGS BANK
MECC PROJECT: M12101A**

MERRITT ENVIRONMENTAL CONSULTING CORP.

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December 3, 2014
Project: M 12101A

Mr. Lon King
Ridgewood Savings Bank
71-02 Forest Avenue
Ridgewood, NY 11385

RE: Focused Subsurface Site Investigation
1202 McDonald Avenue
Brooklyn, New York 11230

Dear Mr. King:

As requested, Merritt Environmental Consulting Corp. (“MECC”) has completed this Focused Subsurface Site Investigation (the “FSSI”) at the property located at 1202 McDonald Avenue (the “Site”). The Site contains one (1) vacant single-story commercial building with a footprint estimated at 1,268 square feet. The Site building is attached to a single-story structure at the south adjoining property. This adjoining building contains an active dry cleaner that uses perchloroethylene (PCE). This FSSI included a Vapor Intrusion Investigation (VII), the intent of which was to determine if PCE or other related volatile organic compounds (VOCs) in vapor form have accumulated at elevated levels under the floor slab of the Site building or possibly within the structure. This investigation identified high levels of PCE in vapor form under the Site building floor slab, inside the basement and in outdoor air. This information shows evidence of possible improper emissions of PCE in vapor form from the dry cleaner. Based on the findings of this study, MECC does not recommend occupancy of the Site building until the source of the elevated PCE vapor can be specifically identified and reduced. Further, laboratory analysis of soil samples collected from beneath the basement floor of the Site building detected low levels of PCE and VOCs that are PCE breakdown products. Although none of these VOC concentrations exceed applicable regulatory limits for soil quality, they do provide evidence of a possible PCE release in liquid form to the subsurface by the adjoining dry cleaner. Installation of a sub-slab depressurization system may need to be completed to mitigate the potential of PCE vapor intrusion into the Site building.

Background

The Site is located at the west side of McDonald Avenue in an urban setting and contains one (1) single-story building, a rear paved alley and a detached garage on an approximately 1,950 square-foot lot. The Site building contains a basement and the footprint of the structure is roughly 1,268 square feet (the remainder of the Site contains the exterior alley and garage). The Site is currently vacant and most recently contained a hardwood floor sales operation. It appears that the Site has always been connected to the municipal sewer and potable water supply systems.

A recently completed Phase I Environmental Site Assessment (the “ESA”) indicates that an active dry cleaning operation is located within property that adjoins the south side of the Site. This adjoining structure is roughly 2,400 square feet in size and is directly attached to the south wall of the Site building. During the FSSI field activities, MECC confirmed that this facility is active and does not appear to be a retail operation (the facility appears to receive clothing from retail dry cleaner services that do not operate dry cleaning equipment). MECC also confirmed that at least one (1) dry cleaning machine operates within this south-adjointing property. MECC observed an exhaust vent that discharges out of the rear (north) exterior wall of the dry cleaner facility. This exhaust vent was in continuous operation during the FSSI field activities (the emission source is currently unknown).

The ESA indicates that a hose was observed to be originating from the dry cleaner and ending at the Site alley at a surface drain. The ESA also indicates that fluids of unknown origin were discharging to the drain within the Site alley and considered this condition a potential area of environmental concern. During the FSSI field activities MECC did not observe this hose, but the presence of a drain was confirmed within the Site alley.

Topography and Geology

The Site surface elevation is estimated to be between 40 feet and 45 feet above mean sea level. Local surface topography has little relief with a slight downward slope to the south-southeast. Sediment beneath the Site area likely consists of a thick layer of outwash sand and gravel. Depth to the water table at the Site is likely to be approximately 35 feet to 40 feet below ground surface. Local direction of groundwater flow is estimated to be southerly.

Scope of Work Completed

In order to determine if the adjoining dry cleaner adversely impacted the environmental integrity of the Site, MECC collected grab soil samples from beneath the basement floor slab and adjacent to the exterior drain in the alley for laboratory analysis. In addition, one (1) sub-slab soil vapor sample, one (1) indoor air sample and one (1) outdoor air sample was collected at the Site for laboratory analysis. The outdoor air sample (“OA1” in the attached laboratory report) was collected as a control. OA1 was collected at an upwind location relative to the exhaust stack protruding from the wall of the adjoining dry cleaner operation. The sub-slab soil vapor sample (“SG1”) and the indoor air sample (“IA1”) was collected from a central area in the basement. These air and soil vapor samples were collected as a means of establishing if elevated levels of volatile organic vapors exist within the Site building. All field work was completed on November 19, 2014 by Mr. Frank Galdun, Project Geologist with MECC.

The sub-slab soil vapor sampling point was installed using the hand-held electric hammer drill tipped with a one-foot long masonry drill bit. The soil vapor implant was installed into the sample hole using dedicated 3/16” flexible tubing to a depth of approximately ten inches. After setting the implant at the desired depth, the flexible tubing attached to the implant was extended to ground surface, sealed with plumbers putty at floor surface and connected to the sample collection equipment. IA1 (indoor air sample) was collected in the basement within approximately five (5) feet of the location of SG1 (sub-slab soil vapor sample). Outdoor air sample OA1 was collected at the rear exterior alley.

All sub-slab soil vapor, indoor air and outdoor air samples were collected in accordance with the New York State Department of Health Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York dated October 2006 (the "Final Guidance"). All sampling was performed with a flow rate of no more than 0.2 liters of air per minute.

For the two (2) soil borings MECC employed an electrically-powered hammer drill to drive two-inch diameter solid augers into the basement floor slab of the Site building and adjacent to the exterior drain in the alley (see attached Site Sketch for boring locations). The maximum depth of the soil borings was 2.5 feet below the floor slab where refusal on large rock fragments was encountered. Grab soil samples were collected from the bottoms of the borings.

Soil Quality Field Screening

A slide hammer connected to extension rods tipped with a steel sampling sleeve was used to collect soil samples at two-foot intervals for soil quality field screening techniques at each boring. These techniques included a continuous physical evaluation of soil condition to determine if any evidence of contamination is present. In addition, MECC also employed a photoionization detector (PID) to determine if measurable levels of volatile organic vapors existed in the soil samples as they were extracted from the sleeve. MECC observed that soil beneath the Site consists of medium sand with large rock and rock fragments. No physical evidence of soil contamination was identified, but PID readings ranged from 2.5 parts per million to four ppm, which provides some minor evidence of elevated volatile organic vapors.

Soil Vapor/Indoor Air/Outdoor Air Sample Laboratory Analysis

All air and soil vapor samples were collected into six-liter summa canisters certified clean by the laboratory. Each canister was equipped with a regulator set for a one (1) hour sampling period. All samples were analyzed at Chemtech for VOCs under EPA Method TO-15. All appropriate chain-of-custody documents were completed prior to sample shipment. Field sampling forms were also completed and are included as part of the chain-of-custody documentation. All samples were hand delivered to the laboratory within 24 hours of collection.

Aside from the active air emission at the adjoining dry cleaner space, MECC observed no other potential source of impact on sub-slab soil vapor or air sampling activities such as stored hazardous substances or petroleum products within the Site. Table 1 on the following page summarizes the laboratory report of analysis.

TABLE 1: SOIL VAPOR, INDOOR AIR AND OUTDOOR AIR SAMPLE ANALYSIS RESULTS EPA Method TO-15, detected compounds only			
Compound	SG1	IA1	OA1
Dichlorodifluoromethane	4.01	4.2	4.05
Chloromethane	0.29j	1.24	1.12
Vinyl Chloride	0.18	2.07	ND
Trichlorofluoromethane	2.59j	2.36j	2.19j
1,1,2-Trichlorotrifluoromethane	0.84j	0.92j	0.84j
Heptane	1.07j	ND	ND
Acetone	41.3	20.0	16.2
Carbon Disulfide	7.16	ND	ND
Methylene Chloride	3.47	4.52	3.27
2-Butanone (methyl ethyl ketone)	1.8	2.24	0.59j
Carbon tetrachloride	0.69	0.75	0.69
cis-1,2-Dichloroethene	0.87j	11.5	ND
Chloroform	11.2	ND	ND
1,1,1-Trichloroethane	1.31	ND	ND
Benzene	1.25j	0.8j	0.67j
Trichloroethene	31.7	6.45	0.7
Toluene	15.1	4.15	1.24j
Tetrachloroethene (PCE)	3322	1356	383
Ethylbenzene	8.25	4.34	ND
Total Xylenes	10.9	18.68	1.91j
Styrene	0.43j	ND	ND
1,3,5-Trimethylbenzene	5.9	1.18j	0.74j
1,2,4-Trimethylbenzene	23.6	3.34	2.36j
Naphthalene	9.96	ND	ND
4-Ethyltoluene	1.09j	1.52j	1.03j
Hexane	ND	ND	0.67j

NOTES

1. All results are expressed in micrograms per cubic meter of air ($\mu\text{g}/\text{m}^3$)
2. J = Concentration is approximate and is less than the quantitation limit but greater than the method detection limit
3. "ND" Not Detected

Significantly, PCE was detected at what is considered elevated concentrations in all three (3) samples. The Final Guidance was used to evaluate the laboratory data. Specifically, the Final Guidance was formulated by the State of New York to address certain specific VOCs, which include PCE, trichloroethene (TCE), 1,1,1-trichloroethane (1,1,1-TCA) and carbon tetrachloride, all of which were detected in the samples. The Final Guidance includes decision matrices with guidance values for these VOCs. These decision matrices are intended for use when both soil gas and indoor air laboratory analytical data is available, and provide recommendations based on VOC concentrations in both sub-slab soil vapor and indoor air. Table 2 summarizes the recommendations in the Final Guidance decision matrices for the four (4) VOCs:

TABLE 2: FINAL GUIDANCE DECISION MATRIX SUMMARY				
Compound	SG1	IA1	OA1	Final Guidance Recommendation
Carbon tetrachloride	0.69	0.75	0.69	Take reasonable and practical actions to identify source(s) and reduce exposures
1,1,1-Trichloroethane (1,1,1-TCA)	1.31	ND	ND	No further action
Trichloroethene (TCE)	31.7	6.45	0.7	Mitigate
Tetrachloroethene (PCE)	3322	1356	383	Mitigate

As shown in Table 1 and Table 2, PCE was detected at high concentrations in comparison with all remaining individual VOC results. The Final Guidance indicates that Matrix 2 is applicable to PCE, which was detected above the threshold value of 1,000 micrograms per cubic liter (ug/m³) in SG1 whereby “mitigate” is recommended. In addition the Air Guidance Value (AGV) established by the Final Guidance for PCE is 30 ug/m³ and the PCE concentration in IA1 far exceeds this AGV. Further, this AGV is also exceeded in OA1, which may be an indicator of elevated PCE emissions in air at the adjoining dry cleaner. SG1 also was reported by the laboratory to contain a high PCE concentration and, based on Matrix 2, “mitigation” is recommended.

The Final Guidance states that Matrix 2 is also applicable to 1,1,1-TCA and based on the laboratory data, no further action is recommended. The SG1 result for this substance is below the Matrix 2 threshold value of 100 ug/m³ and no 1,1,1-TCA was detected in IA1 or OA1.

The Final Guidance indicates that Matrix 1 is applicable to carbon tetrachloride, which was detected in all samples. According to Matrix 1, when any carbon tetrachloride concentration in indoor air that exceeds 0.25 ug/m³ (with soil vapor values for these substances less than 5.0 ug/m³), responsible parties should, “Take reasonable and practical actions to identify source(s) and reduce exposures.” Carbon tetrachloride was detected in the outdoor air sample OA1 at a concentration similar to those detected in the remaining samples. This data could be applied as a means of establishing that indoor and sub-slab soil vapor concentrations of carbon tetrachloride are representative of ambient air quality in the area. However because PCE was detected at a high level in OA1, MECC is reluctant to apply the outdoor air quality data as a rationale for discounting all detected carbon tetrachloride concentrations.

The Final Guidance indicates that Matrix 1 is also applicable to TCE, which was detected at concentrations in SG1 and IA1 that warrant a Matrix 1 recommendation to “mitigate.”

Additional VOCs were reported in the indoor air and soil vapor samples but no regulatory guidance exists for these substances. However, all of the VOCs reported by the laboratory were detected at what are considered by MECC as low-to-trace concentrations. Further, several of the detected substances (i.e., carbon disulfide, acetone, chloroform and methylene chloride) are all commonly introduced into sample media by laboratory analytical procedures and are not considered representative of actual indoor air, outdoor air, or sub-slab soil vapor conditions.

Soil Sample Analysis Results

Both soil samples (identified as B1 2.5' and B2 2.5' in the attached laboratory report) were submitted to Veritech for laboratory analysis under EPA Method 8260-Volatile Organic Compounds (VOCs). Veritech is a New York State Department of Health-approved environmental laboratory (NYSDOH ELAP No. 11408). All samples were placed in laboratory-supplied containers with the appropriate preservatives. MECC completed all necessary chain of custody documents in preparation for sample transport. The samples were stored on ice and hand-delivered to the laboratory on the same day of collection.

VOCs were detected in the samples and Table 3 on the following page summarizes the laboratory data:

TABLE 3: VOC RESULTS FOR SOIL SAMPLES (Detected Compounds Only)			
Compound	Sample Location and Depth		Unrestricted Use SCO
	B1 2.5'	B2 2.5'	
Methylene chloride	0.0033	ND	0.05
cis-1,2-Dichloroethene	ND	0.003	0.25
Trichloroethene	ND	0.0041	0.47
Perchloroethylene	0.01	0.093	1.3

NOTES

1. For the soil samples, results in bold exceed Unrestricted Use Soil Cleanup Objectives (Unrestricted Use SCO) as defined in the New York State Department of Environmental Conservation, Division of Environmental Remediation, 6 NYCRR Part 375, Environmental Remediation Programs, dated December 14, 2006.
2. All results are expressed as milligrams per kilogram (mg/kg), which can also be expressed as parts per million (ppm).
3. ND - Parameter non-detected, below method detection limits.

PCE was detected at low concentrations in both samples, both of which are below the Unrestricted Use Soil Cleanup Objectives (UUSCOs) established by the State of New York. TCE and cis-1,2-dichloroethene were also detected in the samples at low concentrations that are below UUSCOs. These two (2) VOCs are both degradation products of PCE.

Conclusions/Recommendations

A clear impact to Site indoor air quality by elevated concentrations of PCE was identified by this study. MECC is not aware of historical dry cleaning activities at the Site; the source of the condition is the adjoining dry cleaner through air emissions and possibly by subsurface releases of PCE in fluid form.

Elevated levels of PCE in vapor form were detected in all three (3) air samples collected by MECC. In addition, the Final Guidance recommends "mitigation" for the detected levels of PCE and TCE in indoor air. Significantly, PCE was detected at concentrations that are well above the Final Guidance AGV in both the indoor air and outdoor air samples. Based on the high level of PCE detected in IA1, MECC concludes that the potential of adverse impact to the health of future Site occupants appears to exist.

The high PCE level detected in OA1 suggests that air emissions from the adjoining dry cleaner may be the cause (or a contributing cause) of the conditions discovered at the Site. The PCE concentration in the sub-slab soil vapor sample was also elevated, and soil vapor may be included as a likely contributing cause of

elevated PCE levels inside the Site building. Installation of a sub-slab depressurization system (SSDS) beneath the floor slab of the Site building could be part of the remedy of this condition. However, due to the improper air emissions by the dry cleaner, mitigation of the PCE concentrations inside the building can only be accomplished by eliminating these air emissions. Further investigation is necessary along with regulatory reporting.

Limitations of the FSSI

The scope of the FSSI is intended to aid in evaluating whether additional investigation would be prudent. The tasks that comprise this FSSI are not exhaustive or definitive. MECC has made no independent investigation of the accuracy of these secondary sources and has assumed them to be accurate and complete. MECC does not warrant the accuracy or completeness of information provided by secondary sources (MECC has no reason to believe that the secondary sources provided or acquired during this study contain intentionally false or misleading information). MECC does not warrant that all contamination that may exist on the Site has been discovered, that the Site is suitable for any particular purpose or that the Site is clean or free of liability.

If you have any questions concerning this document, please feel free to call our office.

Sincerely,



Frank Galdun
Project Geologist



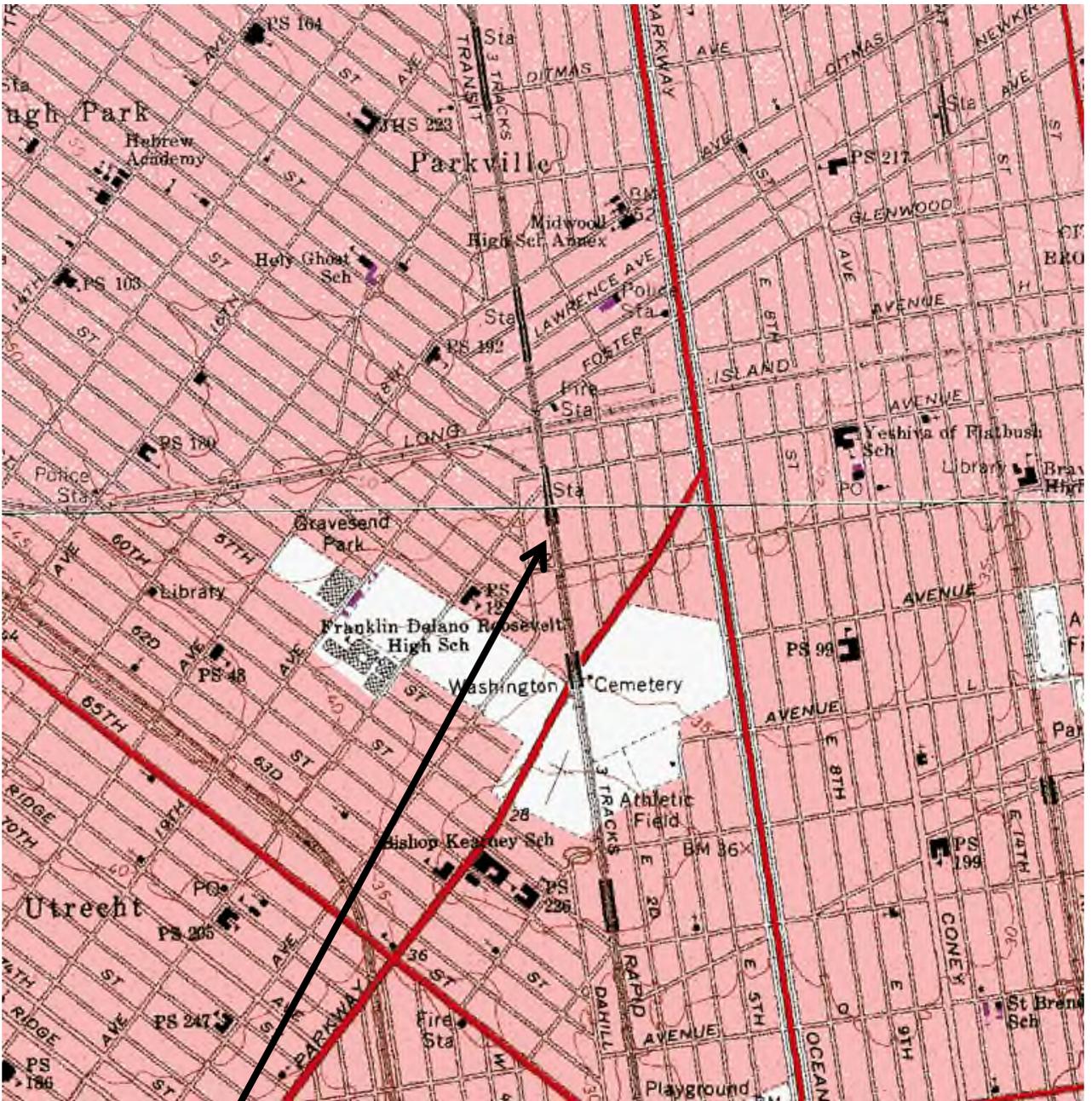
Charles G. Merritt
President/LEED AP

The following attachments are included with this document:

Attachment 1: Site location map and Site plan

Attachment 2: Laboratory report of soil, indoor air, outdoor air and soil vapor sample of analysis

Attachment 3: Photographs



SITE

FIGURE 1: SITE LOCATION MAP

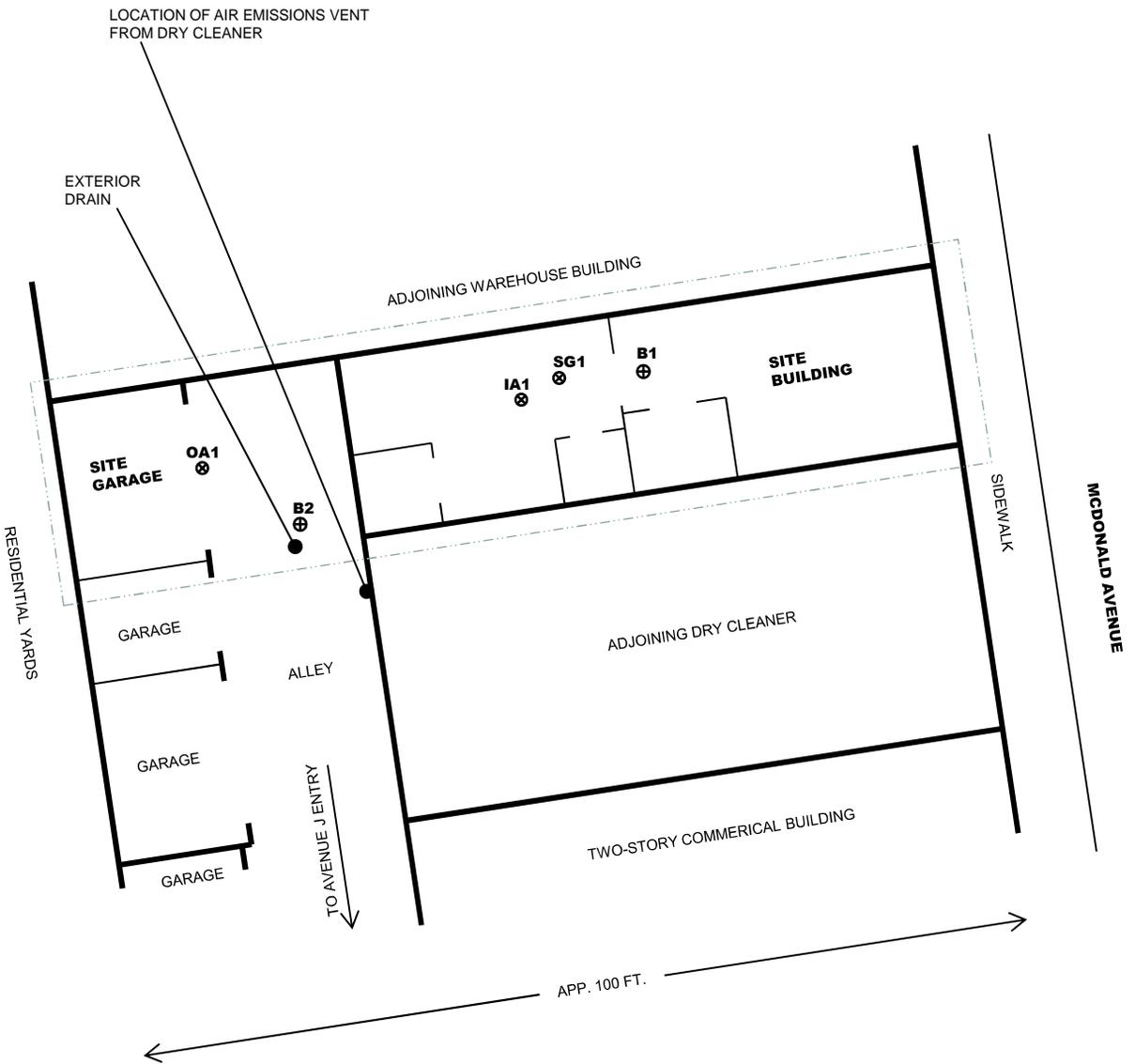
Contour Interval: 5'

USGS 7.5" Quadrangle Map titled *Coney Island, NY*, dated 1995

Site Address:

1202 McDonald Ave.

Brooklyn, NY



NOTE: INTERIOR DETAILS OF SITE BUILDING SHOW BASEMENT LEVEL ONLY

SITE SKETCH: 1202 MCDONALD AVENUE
NOT TO SCALE **BROOKLYN, NY**

PATTERNED LINES ENCLOSE THE SITE

⊗ DENOTES SOIL VAPOR, INDOOR AIR AND OUTDOOR AIR SAMPLE LOCATIONS

⊕ DENOTES SOIL BORING LOCATIONS



Hampton-Clarke Report Of Analysis

Client: GFE LLC

HC Project #: 4111927

Project: 1202 McDonald Ave

Sample ID: B1 2.5'

Collection Date: 11/19/2014

Lab#: AC82071-001

Receipt Date: 11/19/2014

Matrix: Soil

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		89

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.996	mg/kg	0.0022	ND
1,1-Dichloroethane	0.996	mg/kg	0.0022	ND
1,1-Dichloroethene	0.996	mg/kg	0.0022	ND
1,2,4-Trimethylbenzene	0.996	mg/kg	0.0011	ND
1,2-Dichlorobenzene	0.996	mg/kg	0.0022	ND
1,2-Dichloroethane	0.996	mg/kg	0.0011	ND
1,3,5-Trimethylbenzene	0.996	mg/kg	0.0011	ND
1,3-Dichlorobenzene	0.996	mg/kg	0.0022	ND
1,4-Dichlorobenzene	0.996	mg/kg	0.0022	ND
1,4-Dioxane	0.996	mg/kg	0.11	ND
2-Butanone	0.996	mg/kg	0.0022	ND
4-Isopropyltoluene	0.996	mg/kg	0.0011	ND
Acetone	0.996	mg/kg	0.011	ND
Benzene	0.996	mg/kg	0.0011	ND
Carbon tetrachloride	0.996	mg/kg	0.0022	ND
Chlorobenzene	0.996	mg/kg	0.0022	ND
Chloroform	0.996	mg/kg	0.0022	ND
cis-1,2-Dichloroethene	0.996	mg/kg	0.0022	ND
Ethylbenzene	0.996	mg/kg	0.0011	ND
Isopropylbenzene	0.996	mg/kg	0.0011	ND
m&p-Xylenes	0.996	mg/kg	0.0011	ND
Methylene chloride	0.996	mg/kg	0.0022	0.0033
Methyl-t-butyl ether	0.996	mg/kg	0.0011	ND
Naphthalene	0.996	mg/kg	0.0011	ND
n-Butylbenzene	0.996	mg/kg	0.0011	ND
n-Propylbenzene	0.996	mg/kg	0.0011	ND
o-Xylene	0.996	mg/kg	0.0011	ND
sec-Butylbenzene	0.996	mg/kg	0.0011	ND
t-Butylbenzene	0.996	mg/kg	0.0011	ND
Tetrachloroethene	0.996	mg/kg	0.0022	0.010
Toluene	0.996	mg/kg	0.0011	ND
trans-1,2-Dichloroethene	0.996	mg/kg	0.0022	ND
Trichloroethene	0.996	mg/kg	0.0022	ND
Vinyl chloride	0.996	mg/kg	0.0022	ND
Xylenes (Total)	0.996	mg/kg	0.0011	ND

Sample ID: B2 2.5'

Collection Date: 11/19/2014

Lab#: AC82071-002

Receipt Date: 11/19/2014

Matrix: Soil

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		90

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.998	mg/kg	0.0022	ND
1,1-Dichloroethane	0.998	mg/kg	0.0022	ND
1,1-Dichloroethene	0.998	mg/kg	0.0022	ND

Sample ID: B2 2.5'**Lab#: AC82071-002****Matrix: Soil****Collection Date: 11/19/2014****Receipt Date: 11/19/2014**

1,2,4-Trimethylbenzene	0.998	mg/kg	0.0011	ND
1,2-Dichlorobenzene	0.998	mg/kg	0.0022	ND
1,2-Dichloroethane	0.998	mg/kg	0.0011	ND
1,3,5-Trimethylbenzene	0.998	mg/kg	0.0011	ND
1,3-Dichlorobenzene	0.998	mg/kg	0.0022	ND
1,4-Dichlorobenzene	0.998	mg/kg	0.0022	ND
1,4-Dioxane	0.998	mg/kg	0.11	ND
2-Butanone	0.998	mg/kg	0.0022	ND
4-Isopropyltoluene	0.998	mg/kg	0.0011	ND
Acetone	0.998	mg/kg	0.011	ND
Benzene	0.998	mg/kg	0.0011	ND
Carbon tetrachloride	0.998	mg/kg	0.0022	ND
Chlorobenzene	0.998	mg/kg	0.0022	ND
Chloroform	0.998	mg/kg	0.0022	ND
cis-1,2-Dichloroethene	0.998	mg/kg	0.0022	0.0030
Ethylbenzene	0.998	mg/kg	0.0011	ND
Isopropylbenzene	0.998	mg/kg	0.0011	ND
m&p-Xylenes	0.998	mg/kg	0.0011	ND
Methylene chloride	0.998	mg/kg	0.0022	ND
Methyl-t-butyl ether	0.998	mg/kg	0.0011	ND
Naphthalene	0.998	mg/kg	0.0011	ND
n-Butylbenzene	0.998	mg/kg	0.0011	ND
n-Propylbenzene	0.998	mg/kg	0.0011	ND
o-Xylene	0.998	mg/kg	0.0011	ND
sec-Butylbenzene	0.998	mg/kg	0.0011	ND
t-Butylbenzene	0.998	mg/kg	0.0011	ND
Tetrachloroethene	0.998	mg/kg	0.0022	0.093
Toluene	0.998	mg/kg	0.0011	ND
trans-1,2-Dichloroethene	0.998	mg/kg	0.0022	ND
Trichloroethene	0.998	mg/kg	0.0022	0.0041
Vinyl chloride	0.998	mg/kg	0.0022	ND
Xylenes (Total)	0.998	mg/kg	0.0011	ND

HamptonClarke-Veritech Laboratories
 175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
 Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
 Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
 Ph (Service Center): 856-780-6057 Fax: 856-780-6056

HC-V CHAIN OF CUSTODY RECORD
 HAMPTON CLARKE VERITECH
 WBE/DBE/SBE 800.426.9992
 A Women-Owned, Disadvantaged, Small Business Enterprise

Project # (Lab Use Only)
 411927

Page 1 of 1

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

Customer Information		Project Information	
1a) Customer: <u>GTE</u>	2a) Project: <u>1202 McDonald Ave</u>		
Address: <u>58 NOKONIS AVE</u>	<u>BROOKLYN NY</u>		
<u>LR HADATHA, NJ 07034</u>	2b) Project Mgr: <u>F. GARDUN</u>		
1b) Email/Cell/Fax/Ph: <u>frank.gardun@veritech.com</u>	2c) Project Location (City/State):		
1c) Send Invoice to:			
1d) Send Report to: <u>FRANK GARDUN</u>	2d) Quote/PO # (If Applicable):		

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Deliv.
1 Business Day (100%)	<u>Data Summary</u>	Hazsite/CSV
2 Business Days (75%)	Results + QC (Waste)	EnviroData
3 Business Days (50%)	NJ Reduced	Excel - NJ Regulatory
4 Business Days (35%)	NY Reduced	Excel - NY Regulatory
1 Week (25%)	PA Reduced	Excel - PA Regulatory
10 Calendar Days (10%)	Full / Category B	EQuIS (specify below):
2 Weeks	Category A	4-File/EZ/NYS/Reg. 2 or 5
Other: <u>5 DAY</u>		Other: <u>PDF</u>

Expedited TAT Not Always Available. Please Check with Lab.

FOR LAB USE ONLY		7) Analysis Request										8) # of Bottles							9) Comments						
Batch #	Matrix Codes	Sample Type		Check If Contingent =====>										<==== Check If Contingent											
AC92071	DW - Drinking Water S - Soil A - Air GW - Ground Water SL - Sludge WW - Waste Water OL - Oil OT - Other (please specify under item 9, Comments)	Composite (C)	Grab (G)											None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:				
Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date Time																						
-001	B12.5'	soil		11/19/14	10:00																				
-002	B22.5'	soil		11:00																					

10) Relinquished by: <u>[Signature]</u>	Accepted by: <u>[Signature]</u>	Date: <u>11/19/14</u>	Time: <u>16:00</u>
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Comments, Notes, Special Requirements, HAZARDS

Note: Check if low-level groundwater methods required to meet current standards:

BN or BNA (8270C SIM)

VOC (8260B SIM or 8011)

Note: Check if applicable:

Project-Specific Reporting Limits

High Contaminant Concentrations

NJ LSRP Project

Cooler Temperature: 3.0

Additional Notes

11) Sampler (print name): FRANK GARDUN Date: 11/19/14

Please note NUMBERED items. If not completed your analytical work may be delayed.

A fee of \$5/sample will be assessed for storage should sample not be activated for any analysis.

**DATA FOR
VOLATILE ORGANICS**

PROJECT NAME : MACDONALD AVE

GFE LLC

58 Nokomis Ave

Lake Hiawatha, NJ - 07034

Phone No: 646-542-3465

ORDER ID : F4828

ATTENTION : Frank Galdun



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Date : 11/26/2014

Dear Frank Galdun,

3 air samples for the **Macdonald Ave** project were received on **11/19/2014**. The analytical fax results for those samples requested for an expedited turn around time may be seen in this report. Please contact me if you have any questions or concerns regarding this report.

The invoice for this workorder is also attached to the e-mail.

Regards,

Snehal Mehta

908-728-3149

snehal@chemtech.net

Client Contact Information				Bottle Order ID : B1411062				Courier : HAND				1 of 3 COCs					
Client ID : GFEL01 Project ID : Macdonald Ave				Project Manager : Frank galdun				Sampler Name(s) : FRANK GALDUN				Analysis		Matrix			
Customer Name : GFE LLC				Phone Number : 646-542-3465				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified									
Address : 58 Nokomis Ave				Fax Number : 9733341692													
City : Lake Hiawatha				Site Details: 1202 McDONALD AVE BROOKLYN NY													
State : NJ				Analysis Turnaround Time : 5 DAY				Data Package Type : RESULTS ONLY									
Zip Code : 07034				Standard : LEAD OR				EDD Type : PDF & EXCEL									
Country :				Rush (Specify): 5 Days													
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas
6672	11/19/14	0917	1017	230	9	62	62	-30	-7.5	10710	10305	6 L	100	VL024051.D			
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) [Signature]							
		Ambient		Maximum		Minimum											
Start																	
Stop										** Submittal of this COC indicates approval of the analysis based on existing conditio Please follow the instructions on the back of this CO							
Pressure (Inches of Hg)																	
		Ambient		Maximum		Minimum											
Start																	
Stop																	
Special Instructions/QC Requirements & Comments :																	
Suspected Contamination: High Medium Low PID Readings: 0.0																	
Sampling site (State):																	
Quick Connector required : NO																	
Canisters Shipped by:				Date/Time: 11/17/14				Canisters Received by:				Date/Time:					
Samples Relinquished by: F. J. [Signature]				Date/Time: 11/19/14				Received by:				Date/Time:					
Relinquished by:				Date/Time:				Received by: Deepak				Date/Time: 11/19/14					

B1411062 - 3

Client Contact Information				Bottle Order ID : B1411062				Courier : HANS				3 of 3 COCs					
Client ID : GFEL01		Project ID : Macdonald Ave		Sampler Name(s) : FRANK GILDUN				Analysis		Matrix							
Customer Name : GFE LLC		Project Manager : Frank galdun		AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified													
Address : 58 Nokomis Ave		Phone Number : 646-542-3465															
City : Lake Hiawatha		Fax Number : 9733341692															
State : NJ		Site Details: 1202 McDONALD AVE BROOKLYN, NY															
Zip Code : 07034		Analysis Turnaround Time : SDAY		Standard : 5 business days OR				Data Package Type : RESULTS ONLY									
Country :		Rush (Specify): SDAY Days		EDD Type : PDF & EXCEL													
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout	Can Cert ID	TO-15	Indoor Ambient Air	Soil Gas
DAL	11/14/14	0224	02529	4.5	NA	NA	-30	-6.3	10241	10263	6 L	100	VL024051.D				
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) 							
		Ambient		Maximum		Minimum											
Start		25															
Stop		27															
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditio Please follow the instructions on the back of this CO							
		Ambient		Maximum		Minimum											
Start																	
Stop																	
Special Instructions/QC Requirements & Comments :																	
Suspected Contamination: High Medium Low PID Readings: 0.0																	
Sampling site (State):																	
Quick Connector required : NO																	
Canisters Shipped by: FLC				Date/Time: 11/17/14				Canisters Received by:				Date/Time:					
Samples Relinquished by: FLC				Date/Time: 11/19/14				Received by:				Date/Time:					
Relinquished by:				Date/Time: 11/19/14				Received by: Doopala				Date/Time: 11/19/14					

B1411062 - 1

Client Contact Information				Bottle Order ID : B1411062				Courier : Hand				2 of 3 COCs					
Client ID : GFEL01 Project ID : Macdonald Ave				Project Manager : Frank galdun				Sampler Name(s) : FRANK Galdun				Analysis Matrix					
Customer Name : GFE LLC				Phone Number : 646-542-3465				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified									
Address : 58 Nokomis Ave				Fax Number : 9733341692													
City : Lake Hiawatha				Site Details: 1202 McDonalds Ave Brooklyn, NY													
State : NJ				Analysis Turnaround Time : 5 DAY				Data Package Type : RESULTS ONLY									
Zip Code : 07034				Standard : 15 business days OR				EDD Type : PDF & EXCEL									
Country :				Rush (Specify): 5 Days													
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout	Can Cert ID	TO-15	Indoor Ambient Air	Soil Gas
FA1	11/19/14	0917	1017	28	7	62	62	-30	-7.1	10636	10282	6 L	100	VL023589.D	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) [Signature]							
		Ambient		Maximum		Minimum											
Start																	
Stop																	
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditio Please follow the instructions on the back of this CO							
		Ambient		Maximum		Minimum											
Start																	
Stop																	
Special Instructions/QC Requirements & Comments :																	
Suspected Contamination: High Medium Low PID Readings: 00																	
Sampling site (State):																	
Quick Connector required : NO																	
Canisters Shipped by: [Signature]				Date/Time: 11/17/14				Canisters Received by:				Date/Time:					
Samples Relinquished by: [Signature]				Date/Time: 11/19/14				Received by: [Signature]				Date/Time:					
Relinquished by:				Date/Time:				Received by: [Signature]				Date/Time: 11/19/14					

12:40

Report of Analysis

Client:	GFE LLC	Date Collected:	11/19/14
Project:	Macdonald Ave	Date Received:	11/19/14
Client Sample ID:	SG1	SDG No.:	F4828
Lab Sample ID:	F4828-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL024235.D	1		11/22/14 01:10	VL112114

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.81	4.01		0.2	0.49	2.47	ug/m3
74-87-3	Chloromethane	0.14	0.29	J	0.21	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.07	0.18		0.08	0.08	0.08	ug/m3
74-83-9	Bromomethane	0.1	0.39	U	0.12	0.39	1.94	ug/m3
75-00-3	Chloroethane	0.1	0.26	U	0.26	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.1	0.29	U	0.29	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.46	2.59	J	0.22	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.11	0.84	J	0.31	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.1	0.7	U	0.28	0.7	3.49	ug/m3
593-60-2	Bromoethene	0.1	0.44	U	0.13	0.44	2.19	ug/m3
75-65-0	tert-Butyl alcohol	0.1	0.3	U	0.3	0.3	1.52	ug/m3
142-82-5	Heptane	0.26	1.07	J	0.41	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.1	0.4	U	0.2	0.4	1.98	ug/m3
67-64-1	Acetone	26	61.8	E	0.24	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	2.3	7.16		0.16	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.1	0.36	U	0.18	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	1	3.47		0.17	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.1	0.4	U	0.2	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.1	0.4	U	0.16	0.4	2.02	ug/m3
110-82-7	Cyclohexane	0.1	0.34	U	0.34	0.34	1.72	ug/m3
78-93-3	2-Butanone	0.61	1.8		0.29	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.11	0.69		0.19	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.22	0.87	J	0.2	0.4	1.98	ug/m3
67-66-3	Chloroform	2.3	11.2		0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.24	1.31		0.16	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.1	0.47	U	0.19	0.47	2.34	ug/m3
71-43-2	Benzene	0.39	1.25	J	0.13	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	0.1	0.4	U	0.4	0.4	2.02	ug/m3
79-01-6	Trichloroethene	5.9	31.7		0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.1	0.46	U	0.46	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	0.1	0.67	U	0.33	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.1	0.41	U	0.2	0.41	2.05	ug/m3
108-88-3	Toluene	4	15.1		0.19	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.1	0.45	U	0.45	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.1	0.45	U	0.45	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.1	0.55	U	0.55	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	0.1	0.85	U	0.43	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.1	0.77	U	0.77	0.77	3.84	ug/m3

Report of Analysis

Client:	GFE LLC	Date Collected:	11/19/14
Project:	Macdonald Ave	Date Received:	11/19/14
Client Sample ID:	SG1	SDG No.:	F4828
Lab Sample ID:	F4828-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL024235.D	1		11/22/14 01:10	VL112114

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	860	5831	E	0.2	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	0.1	0.46	U	0.46	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	1.9	8.25		0.43	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	7.9	34.3		0.43	0.87	4.34	ug/m3
95-47-6	o-Xylene	3	13.0		0.43	0.43	2.17	ug/m3
100-42-5	Styrene	0.1	0.43	J	0.43	0.43	2.13	ug/m3
75-25-2	Bromoform	0.1	1.03	U	0.52	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.03	0.21	U	0.21	0.21	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.1	0.52	U	0.52	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	1.2	5.9		0.49	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	4.8	23.6		0.49	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.1	0.6	U	0.6	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.1	0.6	U	0.6	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.1	0.6	U	0.6	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.1	0.74	U	0.3	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.1	1.07	U	1.07	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	0.1	0.22	U	0.22	0.22	1.11	ug/m3
91-20-3	Naphthalene	1.9	9.96		0.21	0.52	2.62	ug/m3
622-96-8	4-Ethyltoluene	1.7	8.36		0.49	0.49	2.46	ug/m3
110-54-3	Hexane	0.31	1.09	J	0.14	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	0.1	0.31	U	0.16	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	0.1	0.36	U	0.36	0.36	1.8	ug/m3
80-62-6	Methyl Methacrylate	0.1	0.41	U	0.41	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	16.3		*	65 - 135		163%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	313885		6.61				
540-36-3	1,4-Difluorobenzene	969299		8.28				
3114-55-4	Chlorobenzene-d5	593367		13.7				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	GFE LLC	Date Collected:	11/19/14
Project:	Macdonald Ave	Date Received:	11/19/14
Client Sample ID:	SG1DL	SDG No.:	F4828
Lab Sample ID:	F4828-01DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL024236.D	10		11/22/14 01:48	VL112114

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	1	4.94	UD	1.98	4.94	24.7	ug/m3
74-87-3	Chloromethane	1	2.07	UD	2.07	2.07	10.3	ug/m3
75-01-4	Vinyl Chloride	0.3	0.77	UD	0.77	0.77	0.77	ug/m3
74-83-9	Bromomethane	1	3.88	UD	1.16	3.88	19.4	ug/m3
75-00-3	Chloroethane	1	2.64	UD	2.64	2.64	13.2	ug/m3
109-99-9	Tetrahydrofuran	1	2.95	UD	2.95	2.95	14.8	ug/m3
75-69-4	Trichlorofluoromethane	1	5.62	UD	2.25	5.62	28.1	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	1	7.66	UD	3.07	7.66	38.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	1	6.99	UD	2.8	6.99	35.0	ug/m3
593-60-2	Bromoethene	1	4.37	UD	1.31	4.37	21.9	ug/m3
75-65-0	tert-Butyl alcohol	1	3.03	UD	3.03	3.03	15.2	ug/m3
142-82-5	Heptane	1	4.1	UD	4.1	4.1	20.5	ug/m3
75-35-4	1,1-Dichloroethene	1	3.96	UD	1.98	3.96	19.8	ug/m3
67-64-1	Acetone	17.4	41.3	D	2.38	2.38	11.9	ug/m3
75-15-0	Carbon Disulfide	1	3.11	UD	1.56	3.11	15.6	ug/m3
1634-04-4	Methyl tert-Butyl Ether	1	3.61	UD	1.8	3.61	18.0	ug/m3
75-09-2	Methylene Chloride	1	3.47	UD	1.74	3.47	17.4	ug/m3
156-60-5	trans-1,2-Dichloroethene	1	3.96	UD	1.98	3.96	19.8	ug/m3
75-34-3	1,1-Dichloroethane	1	4.05	UD	1.62	4.05	20.2	ug/m3
110-82-7	Cyclohexane	1	3.44	UD	3.44	3.44	17.2	ug/m3
78-93-3	2-Butanone	1	2.95	UD	2.95	2.95	14.8	ug/m3
56-23-5	Carbon Tetrachloride	0.3	1.89	UD	1.89	1.89	1.89	ug/m3
156-59-2	cis-1,2-Dichloroethene	1	3.96	UD	1.98	3.96	19.8	ug/m3
67-66-3	Chloroform	1.6	7.81	JD	0.98	4.88	24.4	ug/m3
71-55-6	1,1,1-Trichloroethane	0.3	1.64	UD	1.64	1.64	1.64	ug/m3
540-84-1	2,2,4-Trimethylpentane	1	4.67	UD	1.87	4.67	23.4	ug/m3
71-43-2	Benzene	1	3.19	UD	1.28	3.19	16.0	ug/m3
107-06-2	1,2-Dichloroethane	1	4.05	UD	4.05	4.05	20.2	ug/m3
79-01-6	Trichloroethene	4.1	22.0	D	0.81	1.61	1.61	ug/m3
78-87-5	1,2-Dichloropropane	1	4.62	UD	4.62	4.62	23.1	ug/m3
75-27-4	Bromodichloromethane	1	6.7	UD	3.35	6.7	33.5	ug/m3
108-10-1	4-Methyl-2-Pentanone	1	4.1	UD	2.05	4.1	20.5	ug/m3
108-88-3	Toluene	2.8	10.6	JD	1.88	3.77	18.8	ug/m3
10061-02-6	t-1,3-Dichloropropene	1	4.54	UD	4.54	4.54	22.7	ug/m3
10061-01-5	cis-1,3-Dichloropropene	1	4.54	UD	4.54	4.54	22.7	ug/m3
79-00-5	1,1,2-Trichloroethane	1	5.46	UD	5.46	5.46	27.3	ug/m3
124-48-1	Dibromochloromethane	1	8.52	UD	4.26	8.52	42.6	ug/m3
106-93-4	1,2-Dibromoethane	1	7.69	UD	7.69	7.69	38.4	ug/m3

Report of Analysis

Client:	GFE LLC	Date Collected:	11/19/14
Project:	Macdonald Ave	Date Received:	11/19/14
Client Sample ID:	SG1DL	SDG No.:	F4828
Lab Sample ID:	F4828-01DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL024236.D	10		11/22/14 01:48	VL112114

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	850	5764	ED	2.03	2.03	2.03	ug/m3
108-90-7	Chlorobenzene	1	4.61	UD	4.61	4.61	23.0	ug/m3
100-41-4	Ethyl Benzene	1	4.34	UD	4.34	4.34	21.7	ug/m3
179601-23-1	m/p-Xylene	3.2	13.9	JD	4.34	8.69	43.4	ug/m3
95-47-6	o-Xylene	1.2	5.21	JD	4.34	4.34	21.7	ug/m3
100-42-5	Styrene	1	4.26	UD	4.26	4.26	21.3	ug/m3
75-25-2	Bromoform	1	10.3	UD	5.17	10.3	51.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.3	2.06	UD	2.06	2.06	2.06	ug/m3
95-49-8	2-Chlorotoluene	1	5.18	UD	5.18	5.18	25.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	1	4.92	UD	4.92	4.92	24.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	1.8	8.85	JD	4.92	4.92	24.6	ug/m3
541-73-1	1,3-Dichlorobenzene	1	6.01	UD	6.01	6.01	30.1	ug/m3
106-46-7	1,4-Dichlorobenzene	1	6.01	UD	6.01	6.01	30.1	ug/m3
95-50-1	1,2-Dichlorobenzene	1	6.01	UD	6.01	6.01	30.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	1	7.42	UD	2.97	7.42	37.1	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	1	10.7	UD	10.7	10.7	53.3	ug/m3
106-99-0	1,3-Butadiene	1	2.21	UD	2.21	2.21	11.1	ug/m3
91-20-3	Naphthalene	1	5.24	UD	2.1	5.24	26.2	ug/m3
622-96-8	4-Ethyltoluene	1	4.92	UD	4.92	4.92	24.6	ug/m3
110-54-3	Hexane	1	3.52	UD	1.41	3.52	17.6	ug/m3
107-05-1	Allyl Chloride	1	3.13	UD	1.57	3.13	15.6	ug/m3
123-91-1	1,4-Dioxane	1	3.6	UD	3.6	3.6	18.0	ug/m3
80-62-6	Methyl Methacrylate	1	4.09	UD	4.09	4.09	20.5	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.6			65 - 135		106%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	588807		6.62				
540-36-3	1,4-Difluorobenzene	1872870		8.28				
3114-55-4	Chlorobenzene-d5	1626680		13.69				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	GFE LLC	Date Collected:	11/19/14
Project:	Macdonald Ave	Date Received:	11/19/14
Client Sample ID:	SG1DL2	SDG No.:	F4828
Lab Sample ID:	F4828-01DL2	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL024247.D	50		11/24/14 20:07	VL112414

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	5	24.7	UD	9.89	24.7	123	ug/m3
74-87-3	Chloromethane	5	10.3	UD	10.3	10.3	51.6	ug/m3
75-01-4	Vinyl Chloride	1.5	3.83	UD	3.83	3.83	3.83	ug/m3
74-83-9	Bromomethane	5	19.4	UD	5.82	19.4	97.1	ug/m3
75-00-3	Chloroethane	5	13.2	UD	13.2	13.2	66.0	ug/m3
109-99-9	Tetrahydrofuran	5	14.8	UD	14.8	14.8	73.7	ug/m3
75-69-4	Trichlorofluoromethane	5	28.1	UD	11.2	28.1	140	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	5	38.3	UD	15.3	38.3	191	ug/m3
76-14-2	Dichlorotetrafluoroethane	5	35.0	UD	14.0	35.0	174	ug/m3
593-60-2	Bromoethene	5	21.9	UD	6.56	21.9	109	ug/m3
75-65-0	tert-Butyl alcohol	5	15.2	UD	15.2	15.2	75.8	ug/m3
142-82-5	Heptane	5	20.5	UD	20.5	20.5	102	ug/m3
75-35-4	1,1-Dichloroethene	5	19.8	UD	9.91	19.8	99.1	ug/m3
67-64-1	Acetone	5	11.9	UD	11.9	11.9	59.4	ug/m3
75-15-0	Carbon Disulfide	5	15.6	UD	7.79	15.6	77.8	ug/m3
1634-04-4	Methyl tert-Butyl Ether	5	18.0	UD	9.01	18.0	90.1	ug/m3
75-09-2	Methylene Chloride	5	17.4	UD	8.69	17.4	86.8	ug/m3
156-60-5	trans-1,2-Dichloroethene	5	19.8	UD	9.91	19.8	99.1	ug/m3
75-34-3	1,1-Dichloroethane	5	20.2	UD	8.09	20.2	101	ug/m3
110-82-7	Cyclohexane	5	17.2	UD	17.2	17.2	86.0	ug/m3
78-93-3	2-Butanone	5	14.8	UD	14.8	14.8	73.7	ug/m3
56-23-5	Carbon Tetrachloride	1.5	9.44	UD	9.44	9.44	9.44	ug/m3
156-59-2	cis-1,2-Dichloroethene	5	19.8	UD	9.91	19.8	99.1	ug/m3
67-66-3	Chloroform	5	24.4	UD	4.88	24.4	122	ug/m3
71-55-6	1,1,1-Trichloroethane	1.5	8.18	UD	8.18	8.18	8.18	ug/m3
540-84-1	2,2,4-Trimethylpentane	5	23.4	UD	9.34	23.4	116	ug/m3
71-43-2	Benzene	5	16.0	UD	6.39	16.0	79.9	ug/m3
107-06-2	1,2-Dichloroethane	5	20.2	UD	20.2	20.2	101	ug/m3
79-01-6	Trichloroethene	2	10.8	D	4.03	8.06	8.06	ug/m3
78-87-5	1,2-Dichloropropane	5	23.1	UD	23.1	23.1	115	ug/m3
75-27-4	Bromodichloromethane	5	33.5	UD	16.8	33.5	167	ug/m3
108-10-1	4-Methyl-2-Pentanone	5	20.5	UD	10.2	20.5	102	ug/m3
108-88-3	Toluene	5	18.8	UD	9.42	18.8	94.2	ug/m3
10061-02-6	t-1,3-Dichloropropene	5	22.7	UD	22.7	22.7	113	ug/m3
10061-01-5	cis-1,3-Dichloropropene	5	22.7	UD	22.7	22.7	113	ug/m3
79-00-5	1,1,2-Trichloroethane	5	27.3	UD	27.3	27.3	136	ug/m3
124-48-1	Dibromochloromethane	5	42.6	UD	21.3	42.6	212	ug/m3
106-93-4	1,2-Dibromoethane	5	38.4	UD	38.4	38.4	192	ug/m3

Report of Analysis

Client:	GFE LLC	Date Collected:	11/19/14
Project:	Macdonald Ave	Date Received:	11/19/14
Client Sample ID:	SG1DL2	SDG No.:	F4828
Lab Sample ID:	F4828-01DL2	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL024247.D	50		11/24/14 20:07	VL112414

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	490	3322	D	10.2	10.2	10.2	ug/m3
108-90-7	Chlorobenzene	5	23.0	UD	23.0	23.0	115	ug/m3
100-41-4	Ethyl Benzene	5	21.7	UD	21.7	21.7	108	ug/m3
179601-23-1	m/p-Xylene	10	43.4	UD	21.7	43.4	217	ug/m3
95-47-6	o-Xylene	5	21.7	UD	21.7	21.7	108	ug/m3
100-42-5	Styrene	5	21.3	UD	21.3	21.3	106	ug/m3
75-25-2	Bromoform	5	51.7	UD	25.8	51.7	258	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	1.5	10.3	UD	10.3	10.3	10.3	ug/m3
95-49-8	2-Chlorotoluene	5	25.9	UD	25.9	25.9	129	ug/m3
108-67-8	1,3,5-Trimethylbenzene	5	24.6	UD	24.6	24.6	122	ug/m3
95-63-6	1,2,4-Trimethylbenzene	5	24.6	UD	24.6	24.6	122	ug/m3
541-73-1	1,3-Dichlorobenzene	5	30.1	UD	30.1	30.1	150	ug/m3
106-46-7	1,4-Dichlorobenzene	5	30.1	UD	30.1	30.1	150	ug/m3
95-50-1	1,2-Dichlorobenzene	5	30.1	UD	30.1	30.1	150	ug/m3
120-82-1	1,2,4-Trichlorobenzene	5	37.1	UD	14.8	37.1	185	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	5	53.3	UD	53.3	53.3	266	ug/m3
106-99-0	1,3-Butadiene	5	11.1	UD	11.1	11.1	55.3	ug/m3
91-20-3	Naphthalene	5	26.2	UD	10.5	26.2	131	ug/m3
622-96-8	4-Ethyltoluene	5	24.6	UD	24.6	24.6	122	ug/m3
110-54-3	Hexane	5	17.6	UD	7.05	17.6	88.1	ug/m3
107-05-1	Allyl Chloride	5	15.6	UD	7.83	15.6	78.2	ug/m3
123-91-1	1,4-Dioxane	5	18.0	UD	18.0	18.0	90.1	ug/m3
80-62-6	Methyl Methacrylate	5	20.5	UD	20.5	20.5	102	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	11.3			65 - 135		113%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	466799		6.69				
540-36-3	1,4-Difluorobenzene	1447740		8.37				
3114-55-4	Chlorobenzene-d5	1205600		13.79				

U = Not Detected

RL = Reporting Limit

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E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	GFE LLC	Date Collected:	11/19/14
Project:	Macdonald Ave	Date Received:	11/19/14
Client Sample ID:	OA1	SDG No.:	F4828
Lab Sample ID:	F4828-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL024233.D	1		11/21/14 23:50	VL112114

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.82	4.05		0.2	0.49	2.47	ug/m3
74-87-3	Chloromethane	0.54	1.12		0.21	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.03	0.08	U	0.08	0.08	0.08	ug/m3
74-83-9	Bromomethane	0.1	0.39	U	0.12	0.39	1.94	ug/m3
75-00-3	Chloroethane	0.1	0.26	U	0.26	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.1	0.29	U	0.29	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.39	2.19	J	0.22	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.11	0.84	J	0.31	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.1	0.7	U	0.28	0.7	3.49	ug/m3
593-60-2	Bromoethene	0.1	0.44	U	0.13	0.44	2.19	ug/m3
75-65-0	tert-Butyl alcohol	0.1	0.3	U	0.3	0.3	1.52	ug/m3
142-82-5	Heptane	0.1	0.41	U	0.41	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.1	0.4	U	0.2	0.4	1.98	ug/m3
67-64-1	Acetone	6.8	16.2		0.24	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	0.1	0.31	U	0.16	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.1	0.36	U	0.18	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	0.94	3.27		0.17	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.1	0.4	U	0.2	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.1	0.4	U	0.16	0.4	2.02	ug/m3
110-82-7	Cyclohexane	0.1	0.34	U	0.34	0.34	1.72	ug/m3
78-93-3	2-Butanone	0.2	0.59	J	0.29	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.11	0.69		0.19	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.1	0.4	U	0.2	0.4	1.98	ug/m3
67-66-3	Chloroform	0.1	0.49	U	0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.03	0.16	U	0.16	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.1	0.47	U	0.19	0.47	2.34	ug/m3
71-43-2	Benzene	0.21	0.67	J	0.13	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	0.1	0.4	U	0.4	0.4	2.02	ug/m3
79-01-6	Trichloroethene	0.13	0.7		0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.1	0.46	U	0.46	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	0.1	0.67	U	0.33	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.1	0.41	U	0.2	0.41	2.05	ug/m3
108-88-3	Toluene	0.33	1.24	J	0.19	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.1	0.45	U	0.45	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.1	0.45	U	0.45	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.1	0.55	U	0.55	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	0.1	0.85	U	0.43	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.1	0.77	U	0.77	0.77	3.84	ug/m3

Report of Analysis

Client:	GFE LLC	Date Collected:	11/19/14
Project:	Macdonald Ave	Date Received:	11/19/14
Client Sample ID:	OA1	SDG No.:	F4828
Lab Sample ID:	F4828-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL024233.D	1		11/21/14 23:50	VL112114

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	110	745	E	0.2	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	0.1	0.46	U	0.46	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	0.1	0.43	U	0.43	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	0.29	1.26	J	0.43	0.87	4.34	ug/m3
95-47-6	o-Xylene	0.15	0.65	J	0.43	0.43	2.17	ug/m3
100-42-5	Styrene	0.1	0.43	U	0.43	0.43	2.13	ug/m3
75-25-2	Bromoform	0.1	1.03	U	0.52	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.03	0.21	U	0.21	0.21	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.1	0.52	U	0.52	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.15	0.74	J	0.49	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.48	2.36	J	0.49	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.1	0.6	U	0.6	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.1	0.6	U	0.6	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.1	0.6	U	0.6	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.1	0.74	U	0.3	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.1	1.07	U	1.07	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	0.1	0.22	U	0.22	0.22	1.11	ug/m3
91-20-3	Naphthalene	0.1	0.52	U	0.21	0.52	2.62	ug/m3
622-96-8	4-Ethyltoluene	0.21	1.03	J	0.49	0.49	2.46	ug/m3
110-54-3	Hexane	0.19	0.67	J	0.14	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	0.1	0.31	U	0.16	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	0.1	0.36	U	0.36	0.36	1.8	ug/m3
80-62-6	Methyl Methacrylate	0.1	0.41	U	0.41	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	15.5		*	65 - 135		155%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	320000		6.62				
540-36-3	1,4-Difluorobenzene	974624		8.28				
3114-55-4	Chlorobenzene-d5	538188		13.68				

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* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	GFE LLC	Date Collected:	11/19/14
Project:	Macdonald Ave	Date Received:	11/19/14
Client Sample ID:	OA1DL	SDG No.:	F4828
Lab Sample ID:	F4828-02DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL024234.D	10		11/22/14 00:29	VL112114

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	1	4.94	UD	1.98	4.94	24.7	ug/m3
74-87-3	Chloromethane	1	2.07	UD	2.07	2.07	10.3	ug/m3
75-01-4	Vinyl Chloride	0.3	0.77	UD	0.77	0.77	0.77	ug/m3
74-83-9	Bromomethane	1	3.88	UD	1.16	3.88	19.4	ug/m3
75-00-3	Chloroethane	1	2.64	UD	2.64	2.64	13.2	ug/m3
109-99-9	Tetrahydrofuran	1	2.95	UD	2.95	2.95	14.8	ug/m3
75-69-4	Trichlorofluoromethane	1	5.62	UD	2.25	5.62	28.1	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	1	7.66	UD	3.07	7.66	38.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	1	6.99	UD	2.8	6.99	35.0	ug/m3
593-60-2	Bromoethene	1	4.37	UD	1.31	4.37	21.9	ug/m3
75-65-0	tert-Butyl alcohol	1	3.03	UD	3.03	3.03	15.2	ug/m3
142-82-5	Heptane	1	4.1	UD	4.1	4.1	20.5	ug/m3
75-35-4	1,1-Dichloroethene	1	3.96	UD	1.98	3.96	19.8	ug/m3
67-64-1	Acetone	5.1	12.1	D	2.38	2.38	11.9	ug/m3
75-15-0	Carbon Disulfide	1	3.11	UD	1.56	3.11	15.6	ug/m3
1634-04-4	Methyl tert-Butyl Ether	1	3.61	UD	1.8	3.61	18.0	ug/m3
75-09-2	Methylene Chloride	1.7	5.91	JD	1.74	3.47	17.4	ug/m3
156-60-5	trans-1,2-Dichloroethene	1	3.96	UD	1.98	3.96	19.8	ug/m3
75-34-3	1,1-Dichloroethane	1	4.05	UD	1.62	4.05	20.2	ug/m3
110-82-7	Cyclohexane	1	3.44	UD	3.44	3.44	17.2	ug/m3
78-93-3	2-Butanone	1	2.95	UD	2.95	2.95	14.8	ug/m3
56-23-5	Carbon Tetrachloride	0.3	1.89	UD	1.89	1.89	1.89	ug/m3
156-59-2	cis-1,2-Dichloroethene	1	3.96	UD	1.98	3.96	19.8	ug/m3
67-66-3	Chloroform	1	4.88	UD	0.98	4.88	24.4	ug/m3
71-55-6	1,1,1-Trichloroethane	0.3	1.64	UD	1.64	1.64	1.64	ug/m3
540-84-1	2,2,4-Trimethylpentane	1	4.67	UD	1.87	4.67	23.4	ug/m3
71-43-2	Benzene	1	3.19	UD	1.28	3.19	16.0	ug/m3
107-06-2	1,2-Dichloroethane	1	4.05	UD	4.05	4.05	20.2	ug/m3
79-01-6	Trichloroethene	0.3	1.61	UD	0.81	1.61	1.61	ug/m3
78-87-5	1,2-Dichloropropane	1	4.62	UD	4.62	4.62	23.1	ug/m3
75-27-4	Bromodichloromethane	1	6.7	UD	3.35	6.7	33.5	ug/m3
108-10-1	4-Methyl-2-Pentanone	1	4.1	UD	2.05	4.1	20.5	ug/m3
108-88-3	Toluene	1	3.77	UD	1.88	3.77	18.8	ug/m3
10061-02-6	t-1,3-Dichloropropene	1	4.54	UD	4.54	4.54	22.7	ug/m3
10061-01-5	cis-1,3-Dichloropropene	1	4.54	UD	4.54	4.54	22.7	ug/m3
79-00-5	1,1,2-Trichloroethane	1	5.46	UD	5.46	5.46	27.3	ug/m3
124-48-1	Dibromochloromethane	1	8.52	UD	4.26	8.52	42.6	ug/m3
106-93-4	1,2-Dibromoethane	1	7.69	UD	7.69	7.69	38.4	ug/m3

Report of Analysis

Client:	GFE LLC	Date Collected:	11/19/14
Project:	Macdonald Ave	Date Received:	11/19/14
Client Sample ID:	OA1DL	SDG No.:	F4828
Lab Sample ID:	F4828-02DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL024234.D	10		11/22/14 00:29	VL112114

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	56.6	383	D	2.03	2.03	2.03	ug/m3
108-90-7	Chlorobenzene	1	4.61	UD	4.61	4.61	23.0	ug/m3
100-41-4	Ethyl Benzene	1	4.34	UD	4.34	4.34	21.7	ug/m3
179601-23-1	m/p-Xylene	2	8.69	UD	4.34	8.69	43.4	ug/m3
95-47-6	o-Xylene	1	4.34	UD	4.34	4.34	21.7	ug/m3
100-42-5	Styrene	1	4.26	UD	4.26	4.26	21.3	ug/m3
75-25-2	Bromoform	1	10.3	UD	5.17	10.3	51.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.3	2.06	UD	2.06	2.06	2.06	ug/m3
95-49-8	2-Chlorotoluene	1	5.18	UD	5.18	5.18	25.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	1	4.92	UD	4.92	4.92	24.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	1	4.92	UD	4.92	4.92	24.6	ug/m3
541-73-1	1,3-Dichlorobenzene	1	6.01	UD	6.01	6.01	30.1	ug/m3
106-46-7	1,4-Dichlorobenzene	1	6.01	UD	6.01	6.01	30.1	ug/m3
95-50-1	1,2-Dichlorobenzene	1	6.01	UD	6.01	6.01	30.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	1	7.42	UD	2.97	7.42	37.1	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	1	10.7	UD	10.7	10.7	53.3	ug/m3
106-99-0	1,3-Butadiene	1	2.21	UD	2.21	2.21	11.1	ug/m3
91-20-3	Naphthalene	1	5.24	UD	2.1	5.24	26.2	ug/m3
622-96-8	4-Ethyltoluene	1	4.92	UD	4.92	4.92	24.6	ug/m3
110-54-3	Hexane	1	3.52	UD	1.41	3.52	17.6	ug/m3
107-05-1	Allyl Chloride	1	3.13	UD	1.57	3.13	15.6	ug/m3
123-91-1	1,4-Dioxane	1	3.6	UD	3.6	3.6	18.0	ug/m3
80-62-6	Methyl Methacrylate	1	4.09	UD	4.09	4.09	20.5	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	11.3			65 - 135		113%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	408997		6.61				
540-36-3	1,4-Difluorobenzene	1287010		8.27				
3114-55-4	Chlorobenzene-d5	1044640		13.68				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	GFE LLC	Date Collected:	11/19/14
Project:	Macdonald Ave	Date Received:	11/19/14
Client Sample ID:	IA1	SDG No.:	F4828
Lab Sample ID:	F4828-03	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL024230.D	1		11/21/14 21:50	VL112114

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.85	4.2		0.2	0.49	2.47	ug/m3
74-87-3	Chloromethane	0.6	1.24		0.21	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.81	2.07		0.08	0.08	0.08	ug/m3
74-83-9	Bromomethane	0.1	0.39	U	0.12	0.39	1.94	ug/m3
75-00-3	Chloroethane	0.1	0.26	U	0.26	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.1	0.29	U	0.29	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.42	2.36	J	0.22	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.12	0.92	J	0.31	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.1	0.7	U	0.28	0.7	3.49	ug/m3
593-60-2	Bromoethene	0.1	0.44	U	0.13	0.44	2.19	ug/m3
75-65-0	tert-Butyl alcohol	0.1	0.3	U	0.3	0.3	1.52	ug/m3
142-82-5	Heptane	0.1	0.41	U	0.41	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.1	0.4	U	0.2	0.4	1.98	ug/m3
67-64-1	Acetone	8.4	20.0		0.24	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	0.1	0.31	U	0.16	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.1	0.36	U	0.18	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	1.3	4.52		0.17	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.1	0.4	U	0.2	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.1	0.4	U	0.16	0.4	2.02	ug/m3
110-82-7	Cyclohexane	0.1	0.34	U	0.34	0.34	1.72	ug/m3
78-93-3	2-Butanone	0.76	2.24		0.29	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.12	0.75		0.19	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	2.9	11.5		0.2	0.4	1.98	ug/m3
67-66-3	Chloroform	0.1	0.49	U	0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.03	0.16	U	0.16	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.1	0.47	U	0.19	0.47	2.34	ug/m3
71-43-2	Benzene	0.25	0.8	J	0.13	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	0.1	0.4	U	0.4	0.4	2.02	ug/m3
79-01-6	Trichloroethene	1.2	6.45		0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.1	0.46	U	0.46	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	0.1	0.67	U	0.33	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.1	0.41	U	0.2	0.41	2.05	ug/m3
108-88-3	Toluene	1.1	4.15		0.19	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.1	0.45	U	0.45	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.1	0.45	U	0.45	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.1	0.55	U	0.55	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	0.1	0.85	U	0.43	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.1	0.77	U	0.77	0.77	3.84	ug/m3

Report of Analysis

Client:	GFE LLC	Date Collected:	11/19/14
Project:	Macdonald Ave	Date Received:	11/19/14
Client Sample ID:	IA1	SDG No.:	F4828
Lab Sample ID:	F4828-03	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL024230.D	1		11/21/14 21:50	VL112114

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	390	2644	E	0.2	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	0.1	0.46	U	0.46	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	1	4.34		0.43	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	3.2	13.9		0.43	0.87	4.34	ug/m3
95-47-6	o-Xylene	1.1	4.78		0.43	0.43	2.17	ug/m3
100-42-5	Styrene	0.1	0.43	U	0.43	0.43	2.13	ug/m3
75-25-2	Bromoform	0.1	1.03	U	0.52	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.03	0.21	U	0.21	0.21	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.1	0.52	U	0.52	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.24	1.18	J	0.49	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.68	3.34		0.49	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.1	0.6	U	0.6	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.1	0.6	U	0.6	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.1	0.6	U	0.6	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.1	0.74	U	0.3	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.1	1.07	U	1.07	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	0.1	0.22	U	0.22	0.22	1.11	ug/m3
91-20-3	Naphthalene	0.1	0.52	U	0.21	0.52	2.62	ug/m3
622-96-8	4-Ethyltoluene	0.31	1.52	J	0.49	0.49	2.46	ug/m3
110-54-3	Hexane	0.1	0.35	U	0.14	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	0.1	0.31	U	0.16	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	0.1	0.36	U	0.36	0.36	1.8	ug/m3
80-62-6	Methyl Methacrylate	0.1	0.41	U	0.41	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	16.1		*	65 - 135		161%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	310120		6.61				
540-36-3	1,4-Difluorobenzene	913721		8.27				
3114-55-4	Chlorobenzene-d5	556106		13.69				

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MDL = Method Detection Limit

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D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	GFE LLC	Date Collected:	11/19/14
Project:	Macdonald Ave	Date Received:	11/19/14
Client Sample ID:	IA1DL	SDG No.:	F4828
Lab Sample ID:	F4828-03DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL024232.D	10		11/21/14 23:09	VL112114

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	1	4.94	UD	1.98	4.94	24.7	ug/m3
74-87-3	Chloromethane	1	2.07	UD	2.07	2.07	10.3	ug/m3
75-01-4	Vinyl Chloride	0.3	0.77	UD	0.77	0.77	0.77	ug/m3
74-83-9	Bromomethane	1	3.88	UD	1.16	3.88	19.4	ug/m3
75-00-3	Chloroethane	1	2.64	UD	2.64	2.64	13.2	ug/m3
109-99-9	Tetrahydrofuran	1	2.95	UD	2.95	2.95	14.8	ug/m3
75-69-4	Trichlorofluoromethane	1	5.62	UD	2.25	5.62	28.1	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	1	7.66	UD	3.07	7.66	38.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	1	6.99	UD	2.8	6.99	35.0	ug/m3
593-60-2	Bromoethene	1	4.37	UD	1.31	4.37	21.9	ug/m3
75-65-0	tert-Butyl alcohol	1	3.03	UD	3.03	3.03	15.2	ug/m3
142-82-5	Heptane	1	4.1	UD	4.1	4.1	20.5	ug/m3
75-35-4	1,1-Dichloroethene	1	3.96	UD	1.98	3.96	19.8	ug/m3
67-64-1	Acetone	5.9	14.0	D	2.38	2.38	11.9	ug/m3
75-15-0	Carbon Disulfide	1	3.11	UD	1.56	3.11	15.6	ug/m3
1634-04-4	Methyl tert-Butyl Ether	1	3.61	UD	1.8	3.61	18.0	ug/m3
75-09-2	Methylene Chloride	1.9	6.6	JD	1.74	3.47	17.4	ug/m3
156-60-5	trans-1,2-Dichloroethene	1	3.96	UD	1.98	3.96	19.8	ug/m3
75-34-3	1,1-Dichloroethane	1	4.05	UD	1.62	4.05	20.2	ug/m3
110-82-7	Cyclohexane	1	3.44	UD	3.44	3.44	17.2	ug/m3
78-93-3	2-Butanone	1	2.95	UD	2.95	2.95	14.8	ug/m3
56-23-5	Carbon Tetrachloride	0.3	1.89	UD	1.89	1.89	1.89	ug/m3
156-59-2	cis-1,2-Dichloroethene	1.8	7.14	JD	1.98	3.96	19.8	ug/m3
67-66-3	Chloroform	1	4.88	UD	0.98	4.88	24.4	ug/m3
71-55-6	1,1,1-Trichloroethane	0.3	1.64	UD	1.64	1.64	1.64	ug/m3
540-84-1	2,2,4-Trimethylpentane	1	4.67	UD	1.87	4.67	23.4	ug/m3
71-43-2	Benzene	1	3.19	UD	1.28	3.19	16.0	ug/m3
107-06-2	1,2-Dichloroethane	1	4.05	UD	4.05	4.05	20.2	ug/m3
79-01-6	Trichloroethene	0.7	3.76	D	0.81	1.61	1.61	ug/m3
78-87-5	1,2-Dichloropropane	1	4.62	UD	4.62	4.62	23.1	ug/m3
75-27-4	Bromodichloromethane	1	6.7	UD	3.35	6.7	33.5	ug/m3
108-10-1	4-Methyl-2-Pentanone	1	4.1	UD	2.05	4.1	20.5	ug/m3
108-88-3	Toluene	1	3.77	UD	1.88	3.77	18.8	ug/m3
10061-02-6	t-1,3-Dichloropropene	1	4.54	UD	4.54	4.54	22.7	ug/m3
10061-01-5	cis-1,3-Dichloropropene	1	4.54	UD	4.54	4.54	22.7	ug/m3
79-00-5	1,1,2-Trichloroethane	1	5.46	UD	5.46	5.46	27.3	ug/m3
124-48-1	Dibromochloromethane	1	8.52	UD	4.26	8.52	42.6	ug/m3
106-93-4	1,2-Dibromoethane	1	7.69	UD	7.69	7.69	38.4	ug/m3

Report of Analysis

Client:	GFE LLC	Date Collected:	11/19/14
Project:	Macdonald Ave	Date Received:	11/19/14
Client Sample ID:	IA1DL	SDG No.:	F4828
Lab Sample ID:	F4828-03DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL024232.D	10		11/21/14 23:09	VL112114

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	220	1491	ED	2.03	2.03	2.03	ug/m3
108-90-7	Chlorobenzene	1	4.61	UD	4.61	4.61	23.0	ug/m3
100-41-4	Ethyl Benzene	1	4.34	UD	4.34	4.34	21.7	ug/m3
179601-23-1	m/p-Xylene	1.1	4.78	JD	4.34	8.69	43.4	ug/m3
95-47-6	o-Xylene	1	4.34	UD	4.34	4.34	21.7	ug/m3
100-42-5	Styrene	1	4.26	UD	4.26	4.26	21.3	ug/m3
75-25-2	Bromoform	1	10.3	UD	5.17	10.3	51.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.3	2.06	UD	2.06	2.06	2.06	ug/m3
95-49-8	2-Chlorotoluene	1	5.18	UD	5.18	5.18	25.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	1	4.92	UD	4.92	4.92	24.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	1	4.92	UD	4.92	4.92	24.6	ug/m3
541-73-1	1,3-Dichlorobenzene	1	6.01	UD	6.01	6.01	30.1	ug/m3
106-46-7	1,4-Dichlorobenzene	1	6.01	UD	6.01	6.01	30.1	ug/m3
95-50-1	1,2-Dichlorobenzene	1	6.01	UD	6.01	6.01	30.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	1	7.42	UD	2.97	7.42	37.1	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	1	10.7	UD	10.7	10.7	53.3	ug/m3
106-99-0	1,3-Butadiene	1	2.21	UD	2.21	2.21	11.1	ug/m3
91-20-3	Naphthalene	1	5.24	UD	2.1	5.24	26.2	ug/m3
622-96-8	4-Ethyltoluene	1	4.92	UD	4.92	4.92	24.6	ug/m3
110-54-3	Hexane	1	3.52	UD	1.41	3.52	17.6	ug/m3
107-05-1	Allyl Chloride	1	3.13	UD	1.57	3.13	15.6	ug/m3
123-91-1	1,4-Dioxane	1	3.6	UD	3.6	3.6	18.0	ug/m3
80-62-6	Methyl Methacrylate	1	4.09	UD	4.09	4.09	20.5	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	11.2			65 - 135		112%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	431962		6.61				
540-36-3	1,4-Difluorobenzene	1371180		8.27				
3114-55-4	Chlorobenzene-d5	1116840		13.68				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

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J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	GFE LLC	Date Collected:	11/19/14
Project:	Macdonald Ave	Date Received:	11/19/14
Client Sample ID:	IA1DL2	SDG No.:	F4828
Lab Sample ID:	F4828-03DL2	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL024245.D	40		11/24/14 18:39	VL112414

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	4	19.8	UD	7.91	19.8	98.9	ug/m3
74-87-3	Chloromethane	4	8.26	UD	8.26	8.26	41.3	ug/m3
75-01-4	Vinyl Chloride	1.2	3.07	UD	3.07	3.07	3.07	ug/m3
74-83-9	Bromomethane	4	15.5	UD	4.66	15.5	77.7	ug/m3
75-00-3	Chloroethane	4	10.6	UD	10.6	10.6	52.8	ug/m3
109-99-9	Tetrahydrofuran	4	11.8	UD	11.8	11.8	59.0	ug/m3
75-69-4	Trichlorofluoromethane	4	22.5	UD	8.99	22.5	112	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	4	30.7	UD	12.3	30.7	153	ug/m3
76-14-2	Dichlorotetrafluoroethane	4	28.0	UD	11.2	28.0	139	ug/m3
593-60-2	Bromoethene	4	17.5	UD	5.25	17.5	87.4	ug/m3
75-65-0	tert-Butyl alcohol	4	12.1	UD	12.1	12.1	60.6	ug/m3
142-82-5	Heptane	4	16.4	UD	16.4	16.4	82.0	ug/m3
75-35-4	1,1-Dichloroethene	4	15.9	UD	7.93	15.9	79.3	ug/m3
67-64-1	Acetone	4	9.5	UD	9.5	9.5	47.5	ug/m3
75-15-0	Carbon Disulfide	4	12.5	UD	6.23	12.5	62.3	ug/m3
1634-04-4	Methyl tert-Butyl Ether	4	14.4	UD	7.21	14.4	72.1	ug/m3
75-09-2	Methylene Chloride	4	13.9	UD	6.95	13.9	69.5	ug/m3
156-60-5	trans-1,2-Dichloroethene	4	15.9	UD	7.93	15.9	79.3	ug/m3
75-34-3	1,1-Dichloroethane	4	16.2	UD	6.48	16.2	81.0	ug/m3
110-82-7	Cyclohexane	4	13.8	UD	13.8	13.8	68.8	ug/m3
78-93-3	2-Butanone	4	11.8	UD	11.8	11.8	59.0	ug/m3
56-23-5	Carbon Tetrachloride	1.2	7.55	UD	7.55	7.55	7.55	ug/m3
156-59-2	cis-1,2-Dichloroethene	4	15.9	UD	7.93	15.9	79.3	ug/m3
67-66-3	Chloroform	4	19.5	UD	3.91	19.5	97.7	ug/m3
71-55-6	1,1,1-Trichloroethane	1.2	6.55	UD	6.55	6.55	6.55	ug/m3
540-84-1	2,2,4-Trimethylpentane	4	18.7	UD	7.47	18.7	93.4	ug/m3
71-43-2	Benzene	4	12.8	UD	5.11	12.8	63.9	ug/m3
107-06-2	1,2-Dichloroethane	4	16.2	UD	16.2	16.2	81.0	ug/m3
79-01-6	Trichloroethene	1.2	6.45	UD	3.22	6.45	6.45	ug/m3
78-87-5	1,2-Dichloropropane	4	18.5	UD	18.5	18.5	92.4	ug/m3
75-27-4	Bromodichloromethane	4	26.8	UD	13.4	26.8	133	ug/m3
108-10-1	4-Methyl-2-Pentanone	4	16.4	UD	8.2	16.4	82.0	ug/m3
108-88-3	Toluene	4	15.1	UD	7.54	15.1	75.4	ug/m3
10061-02-6	t-1,3-Dichloropropene	4	18.2	UD	18.2	18.2	90.8	ug/m3
10061-01-5	cis-1,3-Dichloropropene	4	18.2	UD	18.2	18.2	90.8	ug/m3
79-00-5	1,1,2-Trichloroethane	4	21.8	UD	21.8	21.8	109	ug/m3
124-48-1	Dibromochloromethane	4	34.1	UD	17.0	34.1	170	ug/m3
106-93-4	1,2-Dibromoethane	4	30.7	UD	30.7	30.7	153	ug/m3

Report of Analysis

Client:	GFE LLC	Date Collected:	11/19/14
Project:	Macdonald Ave	Date Received:	11/19/14
Client Sample ID:	IA1DL2	SDG No.:	F4828
Lab Sample ID:	F4828-03DL2	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL024245.D	40		11/24/14 18:39	VL112414

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	200	1356	D	8.14	8.14	8.14	ug/m3
108-90-7	Chlorobenzene	4	18.4	UD	18.4	18.4	92.1	ug/m3
100-41-4	Ethyl Benzene	4	17.4	UD	17.4	17.4	86.9	ug/m3
179601-23-1	m/p-Xylene	8	34.8	UD	17.4	34.8	173	ug/m3
95-47-6	o-Xylene	4	17.4	UD	17.4	17.4	86.9	ug/m3
100-42-5	Styrene	4	17.0	UD	17.0	17.0	85.2	ug/m3
75-25-2	Bromoform	4	41.4	UD	20.7	41.4	206	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	1.2	8.24	UD	8.24	8.24	8.24	ug/m3
95-49-8	2-Chlorotoluene	4	20.7	UD	20.7	20.7	103	ug/m3
108-67-8	1,3,5-Trimethylbenzene	4	19.7	UD	19.7	19.7	98.3	ug/m3
95-63-6	1,2,4-Trimethylbenzene	4	19.7	UD	19.7	19.7	98.3	ug/m3
541-73-1	1,3-Dichlorobenzene	4	24.0	UD	24.0	24.0	120	ug/m3
106-46-7	1,4-Dichlorobenzene	4	24.0	UD	24.0	24.0	120	ug/m3
95-50-1	1,2-Dichlorobenzene	4	24.0	UD	24.0	24.0	120	ug/m3
120-82-1	1,2,4-Trichlorobenzene	4	29.7	UD	11.9	29.7	148	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	4	42.7	UD	42.7	42.7	213	ug/m3
106-99-0	1,3-Butadiene	4	8.85	UD	8.85	8.85	44.2	ug/m3
91-20-3	Naphthalene	4	21.0	UD	8.39	21.0	104	ug/m3
622-96-8	4-Ethyltoluene	4	19.7	UD	19.7	19.7	98.3	ug/m3
110-54-3	Hexane	4	14.1	UD	5.64	14.1	70.5	ug/m3
107-05-1	Allyl Chloride	4	12.5	UD	6.26	12.5	62.6	ug/m3
123-91-1	1,4-Dioxane	4	14.4	UD	14.4	14.4	72.1	ug/m3
80-62-6	Methyl Methacrylate	4	16.4	UD	16.4	16.4	81.9	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	11.1			65 - 135		111%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane		515536		6.7			
540-36-3	1,4-Difluorobenzene		1599860		8.37			
3114-55-4	Chlorobenzene-d5		1315340		13.79			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

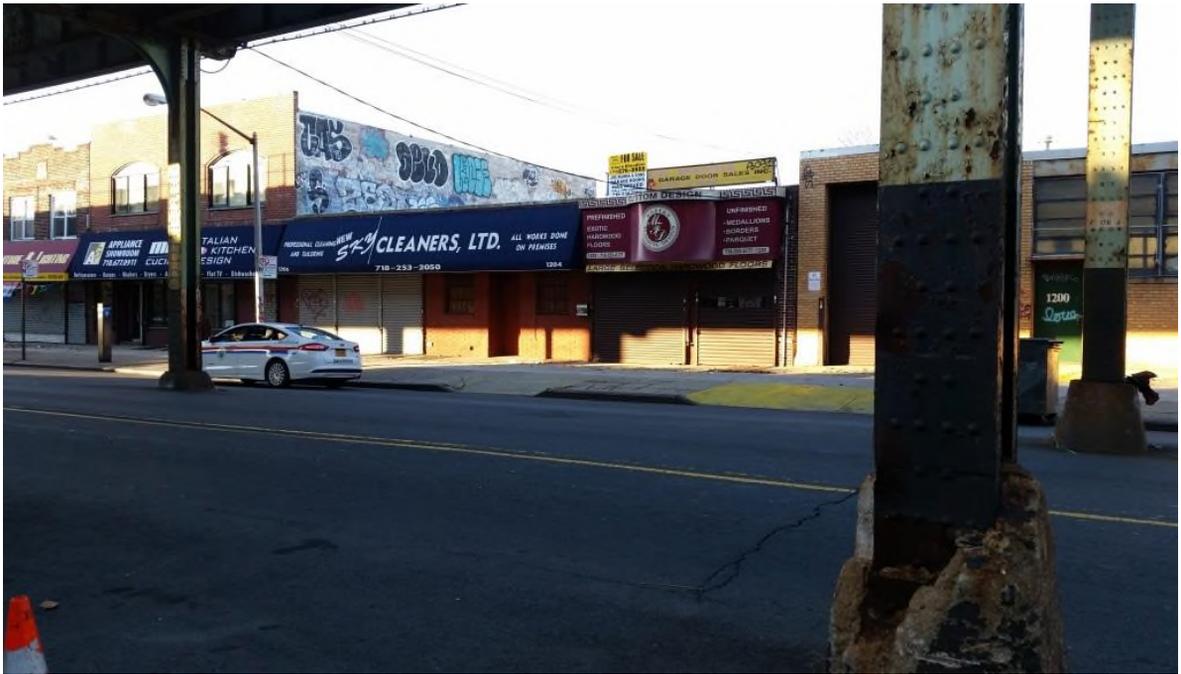
J = Estimated Value

B = Analyte Found in Associated Method Blank

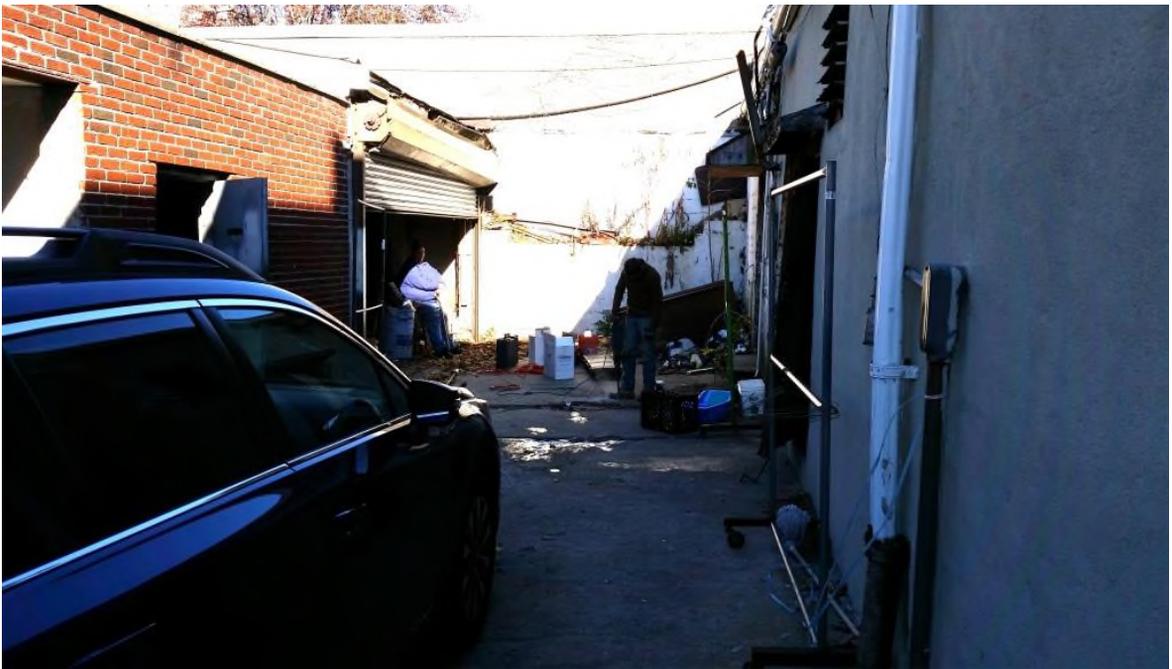
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements



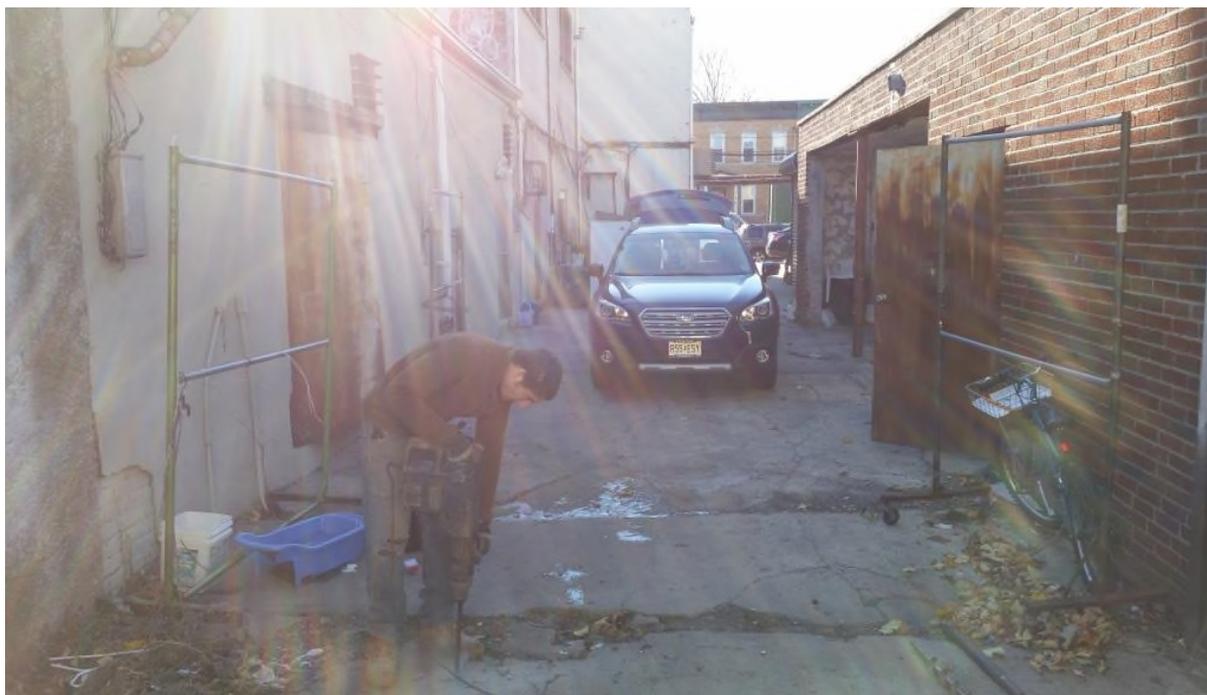
Photograph 1: View of the Site building looking west from across McDonald Avenue. The Site building is denoted by the “for sale” sign on roof. The south-adjointing dry cleaner is visible at left.



Photograph 2: View of Soil Boring B2 installation in alley looking north.



Photograph 3: Sub-slab soil vapor and indoor air sample collection points in the basement of the Site building.



Photograph 4: View of Soil Boring B2 installation looking south from the Site. Broken concrete denotes area of surface drain.