

**INDOOR AIR QUALITY SURVEY
OF**

**PROPOSED LEASE SITE
IMMACULATE CONCEPTION SCHOOL
TAX BLOCK 543, LOT 17
104 GORDON STREET
STATEN ISLAND, NEW YORK 10304**

**SCA PROJECT ID: 097893
SCA CONTRACT NO. C000013430
SCA SERVICE ID: R31A-60633**

STV PROJECT NO.: 30-17079-1088

NOVEMBER 25, 2015



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IMMACULATE CONCEPTION SCHOOL
104 GORDON STREET
STATEN ISLAND, NEW YORK 10304**

EXECUTIVE SUMMARY

At the request of the Industrial and Environmental Hygiene (IEH) Division of the New York City School Construction Authority (NYCSCA), STV Incorporated (STV) conducted an Indoor Air Quality (IAQ) Survey of the Immaculate Conception School located at 104 Gordon Street, Staten Island, New York 10304 (Block 543, Lot 17) in the Stapleton section of Staten Island, New York (hereafter referred to as the "Site"). Block 543, Lot 17 consists of a church, a parochial school building, and a landscaped yard. The Site property is defined as the parochial school building and the landscaped yard, exclusive of the church. The Site consists of an approximately 34,100-square foot (sf) lot developed with a three-story school building with a partial basement. The school building was constructed in 1928. The school building has a footprint of approximately 8,300 sf and provides roughly 26,250 sf of floor space. The landscaped yard is approximately 16,000 sf. The NYCSCA is considering leasing and developing the Site for use as a public school facility.

The IAQ survey was performed to determine whether recognized environmental conditions (RECs) or vapor encroachment conditions (VECs) identified in STV's Phase I Environmental Site Assessment (ESA) report (dated March 3, 2015) have affected the indoor air quality in the Site building. The IAQ field activities were performed on October 22 and 27, 2015 and included a building inspection and chemical inventory for the sampled areas within the Site building, the collection and laboratory analysis of two indoor air samples from the basement of the Site building, and an ambient air sample from the outdoor yard. The IAQ sampling was conducted in accordance with the New York State Department of Health (NYSDOH) Soil Vapor Intrusion Guidance Document, dated October 2006 and the NYCSCA approved scope of work.

The IAQ samples were analyzed for the following 26 volatile organic compounds (VOCs) utilizing United States Environmental Protection Agency (USEPA) Method TO-15: 1,1,1-trichloroethane (TCA), 1,1-dichloroethane, 1,1-dichloroethene, 1,2,4-trimethylbenzene, 1,2-dichlorobenzene, 1,2-dichloroethane, 1,2-dichloropropane, 1,3,5-trimethylbenzene, 1,3-dichlorobenzene, benzene, carbon tetrachloride, chlorobenzene, chloroethane, chloromethane, cis-1,2-dichloroethene, ethylbenzene, methyl tert-butyl ether (MTBE), methylene chloride, naphthalene, o-xylene, m&p-xylenes, tetrachloroethene (PCE), toluene, trans-1,2-dichloroethene, trichloroethene (TCE), and vinyl chloride. These VOCs were selected for analyses since they represent a broad range of petroleum- and solvent-related VOCs which could potentially be present based on the identified RECs noted in STV's Phase I Environmental (ESA) report.

The results of the IAQ Survey indicate that no VOCs were detected in the indoor and ambient air samples at concentrations above the corresponding NYSDOH Air Guideline Values (AGVs) or the range of background levels presented in the NYSDOH Vapor Intrusion Guidance Document with the exception of naphthalene. Naphthalene was detected at 11 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) in the ambient air sample versus the NYSDOH background level of $4.9 \mu\text{g}/\text{m}^3$. There is no AGV for naphthalene and its presence in ambient air suggests that the IAQ detection is solely attributable to ambient air quality and does not represent an indoor air quality concern.

Based on the results of the IAQ Survey, STV concludes that the Site is suitable for use as a public school facility. However, as recommended in the prior Phase I ESA, any asbestos-containing material (ACM), lead-based paint (LBP), and polychlorinated biphenyl-(PCB-) containing materials affected by future renovations, repairs or demolition at the Site should be identified and properly managed during such activities. If the NYCSCA considers purchasing the property in the future, or if future development

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requires significant soil disturbance, then a comprehensive Phase II Environmental Site Investigation should be conducted.

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1.0 INTRODUCTION

At the request of the Industrial and Environmental Hygiene (IEH) Division of the New York City School Construction Authority (NYCSCA), STV Incorporated (STV) conducted an Indoor Air Quality (IAQ) Survey of the Immaculate Conception School located at 104 Gordon Street, Staten Island, New York 10304 (Block 543, Lot 17) in the Stapleton section of Staten Island, New York (hereafter referred to as the “Site”). Block 543, Lot 17 consists of a church, a parochial school building, and a landscaped yard. The Site is defined as the parochial school building and the landscaped yard, exclusive of the church. The Site consists of an approximately 34,100-square foot (sf) property developed with a three-story school building with a partial basement. The school building was constructed in 1928. The school building has a footprint of approximately 8,300 sf and provides roughly 26,250 sf of floor space. The landscaped yard is approximately 16,000 sf. The NYCSCA is considering leasing the Site for use as a public school facility.

A Site Location Map is provided in *Figure 1*. A Site Plan showing the Site and surrounding properties is provided in *Figure 2*.

2.0 DESCRIPTION OF IAQ FIELD ACTIVITIES

IAQ field activities were performed on October 22 and 27, 2015 in accordance with New York State Department of Health (NYSDOH) Soil Vapor Intrusion Guidance Document dated October 2006. The IAQ survey included the following:

- A pre-sampling building inspection and chemical inventory was performed and no odors or interfering conditions were noted;
- Collection and analysis of two indoor air samples from the ground floor of the Site building; and
- Collection and analysis of one ambient air sample from the outdoor yard.

The IAQ was conducted in accordance with STV's Indoor Air Quality Survey Scope of Work (SOW) dated February 17, 2015 and indoor air sampling procedures described in the NYSDOH guidance. The weather on the day of sample collection was sunny with an average temperature of approximately 55 degrees Fahrenheit. *Figure 3* provides the sampling locations. The scope of the field activities and methods are described in the following sections.

2.1 Building Inspection and Chemical Inventory

On October 22, 2015, STV completed a pre-sampling chemical inventory of the indoor air sample locations and adjacent spaces to determine if any materials with the potential to affect the indoor air quality were present (i.e., equipment, cleaning supplies, etc.). The inventory identified cleaners, paint cans, and miscellaneous custodial supplies. A copy of the pre-sampling inventory is provided as *Appendix A*. During the inspection, a ppbRAE™ 3000 photo-ionization detector (PID), which is capable of detecting volatile organic compounds (VOCs) in the parts per billion (ppb) range, was used to screen indoor air for the presence of organic vapors. PID readings ranged from zero ppb to 1 ppb (in the closet by the men's bathroom) during the inventory screening. No chemical odors were detected during the chemical inventory.

The floors in the partial basement and on the ground floor were inspected for cracks, penetrations, and other preferential pathways for soil vapor intrusion such as sumps. No significant cracks or sumps were observed in the ground floor. A sump was present in the partial basement near the boiler. The Site building is heated by steam distribution piping and radiators. The boiler is fueled by a 5,000-gallon No. 2 fuel oil underground storage tank (UST) located in the northeastern portion of the partial basement. The Site building does not have an air conditioning system and is cooled by natural air through open windows. During the inspection and subsequent sampling event, the Site building was operating in a manner consistent with normal building operating conditions when the building is occupied.

2.2 Indoor and Ambient Air Sampling

The indoor air sampling program was performed on October 27, 2015 in conformance with the applicable procedures described in the NYSDOH Soil Vapor Intrusion Guidance Document. A total of two indoor air quality samples and one ambient air quality sample were collected from the Site. One indoor air quality sample was collected from the northwest corner of the multi-purpose room by the stage (sample ID: Multi-Purpose Room) and the other indoor air quality sample was collected from the west side of the

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lounge space by the women’s bathroom (sample ID: Lounge). The ambient air quality sample was collected in the yard (sample ID: Yard). The indoor and ambient sampling locations are shown on *Figure 3*.

The two indoor air quality samples and one ambient air quality sample were collected using individually certified-clean, 6-liter capacity Summa® canisters, equipped with laboratory calibrated flow controllers. The samples were collected over an eight-hour time period. The indoor air samples were collected at a height of approximately 3-5 feet above the floor surface to simulate a typical breathing zone. Immediately after opening each Summa® canister, the initial vacuum (inches of mercury) was noted at all the locations as shown on *Table 1*. After eight hours, final vacuum readings (inches of mercury) were noted and the Summa® canisters were closed. During sampling, there were no activities being performed at the Site which would interfere with the IAQ sampling.

**Table 1
Summary of IAQ Sampling Field Data**

| Sample ID | Vacuum at Start (inches Hg) | Vacuum at Completion (inches Hg) |
|--------------------|------------------------------------|---|
| Yard | 30+ | 10 |
| Multi-Purpose Room | 30+ | 11 |
| Lounge | 30+ | 8 |

The IAQ samples were analyzed for the following 26 VOCs utilizing United States Environmental Protection Agency (USEPA) Method TO-15: 1,1,1-trichloroethane (TCA), 1,1-dichloroethane, 1,1-dichloroethene, 1,2,4-trimethylbenzene, 1,2-dichlorobenzene, 1,2-dichloroethane, 1,2-dichloropropane, 1,3,5-trimethylbenzene, 1,3-dichlorobenzene, benzene, carbon tetrachloride, chlorobenzene, chloroethane, chloromethane, cis-1,2-dichloroethene, ethylbenzene, methyl tert-butyl ether (MTBE), methylene chloride, naphthalene, o-xylene, m&p-xylenes, tetrachloroethene (PCE), toluene, trans-1,2-dichloroethene, trichloroethene (TCE), and vinyl chloride. These VOCs were selected for analyses since they represent a broad range of petroleum- and solvent-related VOCs which could potentially be present based on the identified RECs noted in STV’s Phase I Environmental ESA report (dated March 3, 2015). The attached *Table 2* summarizes the rationale for selecting this list of compounds.

The air samples were collected for approximately eight hours, to obtain a sufficient sample volume to utilize the USEPA Method TO-15 with a detection limit of approximately 1.0 microgram per cubic meter ($\mu\text{g}/\text{m}^3$). In accordance with the NYSDOH Vapor Intrusion Guidance Document, a detection limit of less than $0.25 \mu\text{g}/\text{m}^3$ was achieved for vinyl chloride, TCE, and carbon tetrachloride.

The Summa® canisters were properly labeled and transported via courier to York Analytical Laboratories (York) of Stratford, Connecticut for analysis of the 26 VOCs listed in *Table 2*. York is a NYSDOH Environmental Laboratory Approval Program (ELAP) certified analytical laboratory for air quality sample analyses by USEPA Method TO-15 (ELAP # NY10854). A summary of the analytical results is provided in *Table 3*, a copy of the analytical laboratory report is attached in *Appendix B*, and a copy of the lab’s current ELAP certification is provided in *Appendix C*.

3.0 DISCUSSION OF FINDINGS

This section presents a discussion of the findings of the IAQ survey. Summaries of the laboratory results are presented in *Table 3* at the end of this report. The complete laboratory analytical data report is included in *Appendix B*.

3.1 Applicable Regulatory Standards

This subsection identifies the Health Effects Institute (HEI), USEPA, and/or NYSDOH regulatory standards and guidelines used to evaluate the air quality analytical results.

3.1.1 *Indoor Air Sampling Guidelines*

Analytical results for the indoor air samples were compared to the NYSDOH Air Guideline Values (AGVs) and to background levels of VOCs in indoor air presented in the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated October 2006 (“NYSDOH Vapor Intrusion Guidance Document”), including Upper Fence Limit indoor air values from “Table C-1, NYSDOH 2003: Study of Volatile Organic Chemicals in Air of Fuel Oil Heated Homes”, 90th Percentile indoor air values from “Table C-2, EPA 2001: Building Assessment and Survey Evaluation (BASE) Database, SUMMA canister method”; and the 95th Percentile Indoor Air Values from “Table C-5, HEI 2005: Relationship of Indoor, Outdoor and Personal Air (RIOPA) published in the NYSDOH Soil Vapor Intrusion Guidance Document, Appendix C” (October 2006). Tetrachloroethene (PCE) levels were compared to the AGV presented in the NYSDOH Fact Sheet on Tetrachloroethene in Indoor and Outdoor Air, dated September 2013 (see <https://www.health.ny.gov/environmental/chemicals/tetrachloroethene/docs/perc.pdf>).

3.1.2 *Ambient Air Sampling Guidelines*

Analytical results for the ambient air sample were compared to the NYSDOH AGVs and to background levels of VOCs in outdoor air presented in the NYSDOH Vapor Intrusion Guidance Document, including Upper Fence Limit outdoor air values from “Table C-1, NYSDOH 2003: Study of Volatile Organic Chemicals in Air of Fuel Oil Heated Homes”; 90th Percentile outdoor air values from “Table C-2, EPA 2001: Building Assessment and Survey Evaluation (BASE) Database, SUMMA canister method”; and the 95th Percentile Outdoor Air Values from “Table C-5, HEI 2005: Relationship of Indoor, Outdoor and Personal Air (RIOPA) published in the NYSDOH Soil Vapor Intrusion Guidance Document, Appendix C” (October 2006). Tetrachloroethene (PCE) levels were compared to the AGV presented in the NYSDOH Fact Sheet on Tetrachloroethene in Indoor and Outdoor Air, dated September 2013 (see <https://www.health.ny.gov/environmental/chemicals/tetrachloroethene/docs/perc.pdf>). In addition, the results were compared to the maximum values recorded in 2014 at the NYSDEC Ambient Air Monitoring Station in Fresh Kills West, which is located approximately 8 miles southwest of the Site at 310 West Service Road, Staten Island, New York.

3.2 Indoor Air Sampling Findings

A review of the indoor air sample analytical results indicates that none of the 26 VOCs analyzed utilizing USEPA Method TO-15 for the parameters listed in Table 2 were detected in the samples at concentrations above the corresponding NYSDOH AGVs. VOCs were not detected at concentrations above the range of anticipated background levels in any of the samples. A summary of the analytical

results for VOCs in the IAQ samples is presented in *Table 3*. The complete analytical data report is presented in *Appendix B*.

3.3 Ambient Air Sampling Findings

A review of the ambient air sample analytical results indicates that 6 of the 26 VOCs analyzed utilizing USEPA Method TO-15 for the parameters listed in *Table 2* were detected in the ambient air sample. These compounds include: benzene, chloromethane, m,p-xylenes, methylene chloride, naphthalene, and toluene. None of these VOCs were detected at concentrations above the corresponding NYSDOH AGVs or the range of background levels presented in the NYSDOH Vapor Intrusion Guidance Document with the exception of naphthalene. Naphthalene was detected at $11 \mu\text{g}/\text{m}^3$ in the ambient air sample versus the NYSDOH background level of $4.9 \mu\text{g}/\text{m}^3$. There is no AGV for naphthalene. A summary of the analytical results is presented in *Table 3*. The complete analytical data report is presented in *Appendix B*.

3.4 Summary of Findings

STV performed an IAQ survey consisting of a building inspection and chemical inventory and the collection and laboratory analysis of two indoor air samples and one ambient air sample. The results of the IAQ Survey indicate that no VOCs were detected in the indoor and ambient air samples at concentrations above the corresponding NYSDOH AGVs or the range of background levels presented in the NYSDOH Vapor Intrusion Guidance Document with the exception of naphthalene. Naphthalene was detected at $11 \mu\text{g}/\text{m}^3$ in the ambient air sample versus the NYSDOH background level of $4.9 \mu\text{g}/\text{m}^3$. There is no AGV for naphthalene and does not represent an indoor air quality concern.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The results of the IAQ Survey indicate that no VOCs were detected in the indoor and ambient air samples at concentrations above the corresponding NYSDOH AGVs or the range of background levels presented in the NYSDOH Vapor Intrusion Guidance Document with the exception of naphthalene. Naphthalene was detected at 11 $\mu\text{g}/\text{m}^3$ in the ambient air sample versus the NYSDOH background level of 4.9 $\mu\text{g}/\text{m}^3$. There is no AGV for naphthalene and its presence in ambient air suggests that the IAQ detection is solely attributable to ambient air quality and does not represent an indoor air quality concern.

Based on the results of the IAQ Survey, STV concludes that the Site is suitable for use as a public school facility. However, as recommended in the prior Phase I ESA, any asbestos-containing material (ACM), lead-based paint (LBP), and polychlorinated biphenyl-(PCB-) containing materials affected by future renovations, repairs or demolition at the Site should be identified and properly managed during such activities. If the NYCSCA considers purchasing the property in the future, or if future development requires significant soil disturbance, then a comprehensive Phase II Environmental Site Investigation should be conducted.

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104 GORDON STREET
STATEN ISLAND, NEW YORK 10304**

5.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

STV has performed an Indoor Air Quality Survey of the Immaculate Conception School located at 104 Gordon Street, Staten Island, New York. The scope of the IAQ Survey was consistent with the Scope of Work as stated in Section 2.0.

STV, INC.



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6.0 REFERENCES

American Society for Testing and Materials (ASTM), E 2600-10, Standard Practice for Assessment of Vapor Intrusion into Structures on Property Involved in Real Estate Transactions, West Conshohocken, PA, December 2010.

New York State Department of Health, Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006.

New York State Department of Health, Indoor Air Sampling & Analysis Guidance, dated February 1, 2005.

STV Incorporated, *Phase I Environmental Site Assessment of Immaculate Conception School at 104 Gordon Street, Staten Island, New York, 10304, dated March 3, 2015.*

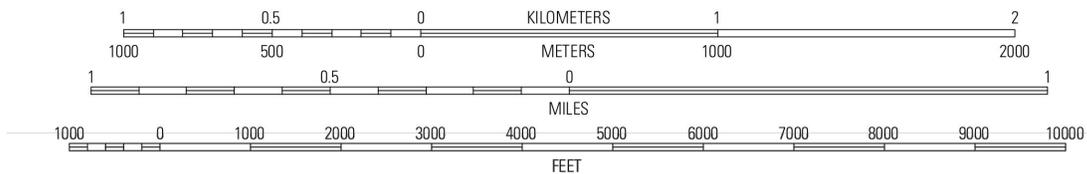
STV Incorporated, *Proposal/Scope of Work for Indoor Air Quality (IAQ) Investigation at Immaculate Conception School, 104 Gordon Street, Staten Island, New York, 10304, dated February 17, 2015.*

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STATEN ISLAND, NEW YORK 10304**

FIGURES



SCALE 1:24 000



CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid: Universal Transverse Mercator, Zone 18T
10 000-foot ticks: New York Coordinate System of 1983 (long
island zone), New Jersey Coordinate System of 1983



225 PARK AVENUE
SOUTH
N.Y., N.Y. 10003

IMMACULATE
CONCEPTION SCHOOL
104 GORDON STREET
STATEN ISLAND, NY 10304

FIGURE 1
SITE LOCATION MAP

DATE:
NOV 2015

SCALE:
AS SHOWN

SHEET NO:
1



- ONSITE RECs / VECs:**
- ① POTENTIAL BURIED STRUCTURES FROM FORMER ONSITE BUILDINGS.
 - ② CLOSED-IN-PLACE UST AND AST
- OFFSITE RECs / VECs:**
- ③ HISTORIC GAS STATION
 - ④ GAS STATION / HISTORIC AUTO REPAIR
 - ⑤ REGISTERED DRY CLEANER
 - ⑥ REGISTERED DRY CLEANER
 - ⑦ HISTORIC CHEMICAL FACTORY
 - ⑧ HISTORIC PLATING WORKS
 - ⑨ HISTORIC PRINT SHOP

| LEGEND | |
|--------|------------------------------------|
| | SITE PROPERTY |
| R | RESIDENTIAL |
| C | COMMERCIAL |
| M | MIXED USED |
| P | PARKING |
| V | VACANT LOT |
| I | INSTITUTIONS |
| IN | INDUSTRIAL |
| REC | RECOGNIZED ENVIRONMENTAL CONDITION |



SOURCE:
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IMMACULATE
 CONCEPTION SCHOOL
 104 GORDON STREET
 STATEN ISLAND, NY 10304

FIGURE 2
 SITE PLAN

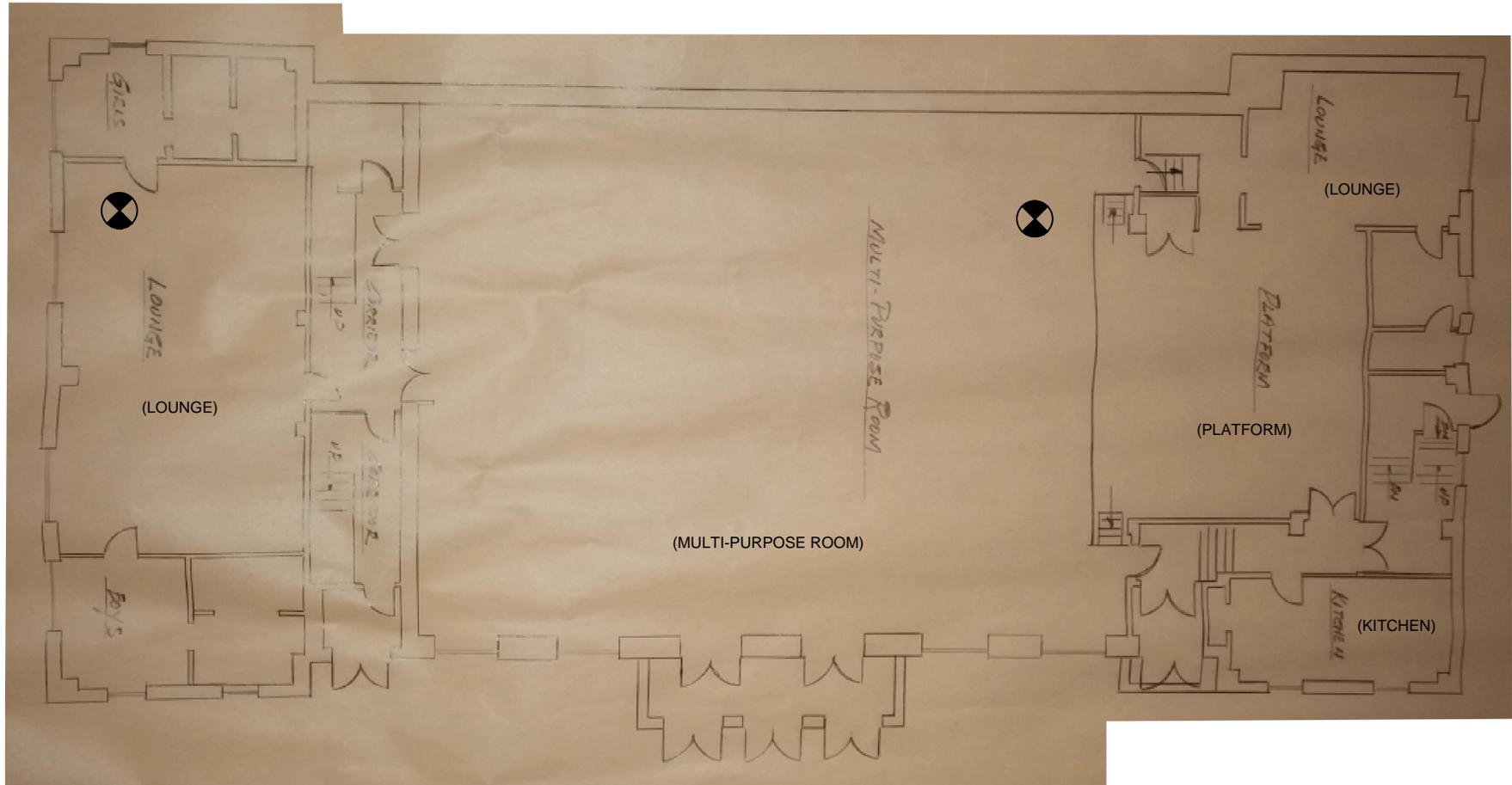
DATE:
 NOV 2015

SCALE:
 AS SHOWN

SHEET NO:
 1



PRESUMED
GROUNDWATER FLOW
DIRECTION



GORDON STREET

LEGEND:



IAQ AIR SAMPLE LOCATION



STV Incorporated

225 PARK AVENUE SOUTH, N.Y., N.Y. 10003

IMMACULATE CONCEPTION SCHOOL
104 GORDON STREET
STATEN ISLAND, NY 10304

SCHOOL CONSTRUCTION AUTHORITY

FIGURE 3
INDOOR AND AMBIENT AIR QUALITY SAMPLE
LOCATIONS

DATE:
NOV 2015

SCALE:
NOT TO SCALE

SHEET NO:
1 OF 1

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IMMACULATE CONCEPTION SCHOOL
104 GORDON STREET
STATEN ISLAND, NEW YORK 10304**

TABLES

Table 2
List of Analyzed Volatile Organic Compounds

| | Compound | Rationale for Including in Parameter Suite |
|----|--------------------------------|--|
| 1 | Benzene | Petroleum constituent |
| 2 | Carbon Tetrachloride | Historically used at dry cleaners |
| 3 | Chlorobenzene | Petroleum constituent |
| 4 | Chloroethane | Breakdown product of 1,1,1 TCA |
| 5 | Chloromethane | Breakdown product of carbon tetrachloride |
| 6 | 1,2 Dichlorobenzene | Petroleum constituent |
| 7 | 1,3 Dichlorobenzene | Petroleum constituent |
| 8 | 1,1-Dichloroethane | Breakdown product of 1,1,1 TCA |
| 9 | 1,2-Dichloroethane | Breakdown product of PCE and TCE |
| 10 | 1,1-Dichloroethene | Breakdown product of PCE and TCE |
| 11 | Cis-1,2-Dichloroethene | Breakdown product of PCE and TCE |
| 12 | trans-1,2-Dichloroethene | Breakdown product of PCE and TCE |
| 13 | 1,2-Dichloropropane | Unleaded gasoline additive |
| 14 | Ethylbenzene | Petroleum constituent |
| 15 | Methyl tert-butyl Ether (MTBE) | Gasoline additive |
| 16 | Methylene Chloride | Breakdown product of carbon tetrachloride, paint stripper and cleaning component |
| 17 | Naphthalene | Petroleum constituent |
| 18 | Tetrachloroethene (PCE) | Dry cleaning solvent |
| 19 | Toluene | Petroleum constituent |
| 20 | 1,1,1 – Trichloroethane | Common degreasing solvent |
| 21 | Trichloroethene (TCE) | Breakdown product of PCE; Solvent |
| 22 | 1,2,4-Trimethylbenzene | Petroleum constituent |
| 23 | 1,3,5- Trimethylbenzene | Petroleum constituent |
| 24 | Vinyl Chloride | Breakdown product of PCE & TCE, used in PVC |
| 25 | m&p-Xylenes | Petroleum constituent |
| 26 | o-Xylene | Petroleum constituent |

Table 3

**Summary of Indoor Air and Ambient Air Sampling Results
Volatile Organic Compounds
Proposed Lease Site
Immaculate Conception School
104 Gordon Street
Staten Island, New York 10304**

| Sample ID | Yard (Ambient) | | Multi-Purpose Room (Indoor) | | Lounge (Indoor) | | NYSDOH AGV | NYSDOH Fuel Oil 2003 Upper Fence Limit ⁽¹⁾ | | USEPA BASE Data 90th Percentile ⁽¹⁾ | | HEI RIOPA 2005 95th Percentile Value ⁽¹⁾ | | NYSDEC Ambient Air Monitoring Station - Maximum Concentration ⁽²⁾ |
|--------------------------------|-------------------|---|-----------------------------|---|-------------------|---|-------------------|---|-------------------|--|-------------------|---|-------------------|--|
| | Sample Date | | 10/27/15 | | 10/27/15 | | | Outdoor | Indoor | Outdoor | Indoor | Outdoor | Indoor | |
| COMPOUND | µg/m ³ | Q | µg/m ³ | Q | µg/m ³ | Q | µg/m ³ | µg/m ³ | µg/m ³ | µg/m ³ | µg/m ³ | µg/m ³ | µg/m ³ | µg/m ³ |
| 1,1,1-Trichloroethane | <0.68 | U | <0.75 | U | <0.62 | U | -- | 0.6 | 2.5 | 2.6 | 20.6 | -- | -- | -- |
| 1,1-Dichloroethane | <0.51 | U | <0.56 | U | <0.46 | U | -- | -- | 0.4 | <0.6 | <0.7 | -- | -- | 0.012 |
| 1,1-Dichloroethene | <0.50 | U | <0.55 | U | <0.45 | U | -- | 0.4 | 0.4 | <1.4 | <1.4 | -- | -- | -- |
| 1,2,4-Trimethylbenzene | <0.61 | U | 0.68 | D | 0.62 | D | -- | 1.9 | 9.8 | 5.8 | 9.5 | -- | -- | 0.015 |
| 1,2-Dichlorobenzene | <0.75 | U | <0.83 | U | <0.69 | U | -- | 0.4 | 0.5 | <1.2 | <1.2 | -- | -- | 0.009 |
| 1,2-Dichloroethane | <0.51 | U | <0.56 | U | <0.46 | U | -- | 0.4 | 0.5 | <0.8 | <0.9 | -- | -- | -- |
| 1,2-Dichloropropane | <0.58 | U | <0.64 | U | <0.53 | U | -- | 0.4 | 0.4 | <1.6 | <1.6 | -- | -- | 0.01 |
| 1,3,5-Trimethylbenzene | <0.61 | U | <0.68 | U | <0.56 | U | -- | 0.7 | 3.9 | 2.7 | 3.7 | -- | -- | -- |
| 1,3-Dichlorobenzene | <0.75 | U | <0.83 | U | <0.69 | U | -- | 0.4 | 0.5 | <2.2 | <2.4 | -- | -- | 0.007 |
| Benzene | 1.2 | D | 1.5 | D | 1.4 | D | -- | 4.8 | 13 | 6.6 | 9.4 | 5.16 | 10 | 1.166 |
| Carbon tetrachloride | <0.20 | U | <0.22 | U | <0.18 | U | -- | 1.2 | 1.3 | 0.7 | <1.3 | 1.0 | 1.1 | 0.097 |
| Chlorobenzene | <0.58 | U | <0.63 | U | <0.53 | U | -- | -- | 0.4 | <0.8 | <0.9 | -- | -- | 0.008 |
| Chloroethane | <0.33 | U | <0.36 | U | <0.30 | U | -- | 0.4 | 0.4 | <1.2 | <1.1 | -- | -- | 0.045 |
| Chloromethane | 1.1 | D | 1.0 | D | 0.97 | D | -- | 4.3 | 4.2 | 3.7 | 3.7 | -- | -- | 0.602 |
| cis-1,2-Dichloroethene | <0.50 | U | <0.55 | U | <0.45 | U | -- | 0.4 | 0.4 | <1.8 | <1.9 | -- | -- | 0.011 |
| Ethylbenzene | <0.54 | U | 0.84 | D | 0.60 | D | -- | 1.0 | 6.4 | 3.5 | 5.7 | 3.04 | 7.62 | 0.364 |
| m,p- Xylenes | 1.4 | D | 2.6 | D | 1.8 | D | -- | 1.0 | 11 | 12.8 | 22.2 | 10 | 22.2 | 0.99 |
| Methylene chloride | 1.1 | D | 1.6 | D | 1.4 | D | 60 | 1.6 | 16 | 6.1 | 10 | 2.46 | 7.5 | -- |
| Methyl-tert-butyl-ether (MTBE) | <0.45 | U | <0.50 | U | <0.41 | U | -- | -- | 14 | 6.2 | 11.5 | 22.1 | 36 | 0.026 |
| Naphthalene | 11 | D | 3.0 | D | <1.2 | U | -- | -- | -- | 4.9 | 5.1 | -- | -- | -- |
| o-Xylene | <0.54 | U | 0.84 | D | 0.65 | D | -- | 1.2 | 7.1 | 4.6 | 7.9 | 3.23 | 7.24 | 0.397 |
| Tetrachloroethene (PCE) | <0.85 | U | <0.94 | U | <0.78 | U | 30 | 0.7 | 2.5 | 6.5 | 15.9 | 3.17 | 6.01 | -- |
| Toluene | 2.3 | D | 3.9 | D | 3.4 | D | -- | 5.1 | 57 | 33.7 | 43.0 | 19.6 | 39.8 | 2.666 |
| trans-1,2-Dichloroethene | <0.50 | U | <0.55 | U | <0.45 | U | -- | -- | -- | -- | -- | -- | -- | -- |
| Trichloroethene (TCE) | <0.17 | U | <0.19 | U | <0.15 | U | 2 | 0.4 | 0.5 | 1.3 | 4.2 | 0.79 | 1.36 | -- |
| Vinyl Chloride | <0.080 | U | <0.088 | U | <0.073 | U | -- | 0.4 | 0.4 | <1.8 | <1.9 | -- | -- | 0.009 |

NOTES:µg/m³ = micrograms per cubic meter

< - Less than reporting limit

-- = Not Available

Q is the Qualifier Column

D=result is from an analysis that required a dilution

U=analyte not detected at or above the level indicated

Bold - Indicates the analyte concentration exceeds maximum background concentrations of all criteria levels.(1) Indoor and Outdoor Limits (µg/m³) - As per Appendix C of the Final NYSDOH Guidance document.(2) Maximum Concentration (µg/m³) - As per NYSDEC Freshkills West Ambient Air Quality Monitoring Site (Site No. 7097-17) Annual VOC Data (2014).

AGV - Air Guideline Value

BASE - Building Assessment and Survey Evaluation

HEI RIOPA - Health Effect Institute: Relationship of Indoor, Outdoor and Personal Air

NYSDEC - New York State Department of Environmental Conservation

NYSDOH - New York State Department of Health

USEPA - United States Environmental Protection Agency

**INDOOR AIR QUALITY SURVEY
IMMACULATE CONCEPTION SCHOOL
104 GORDON STREET
STATEN ISLAND, NEW YORK 10304**

**APPENDIX A
BUILDING INSPECTION, CHEMICAL INVENTORY,
& PHOTO LOG**

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Peter Helseth Date/Time Prepared 10/22/15
Preparer's Affiliation STV Inc. Phone No. 212-614-3376
Purpose of Investigation IAQ Survey

1. OCCUPANT:

Interviewed: Y/N

~~Last Name: _____ First Name: _____
Address: _____
County: _____
Home Phone: _____ Office Phone: _____
Number of Occupants/persons at this location _____ Age of Occupants _____~~

2. OWNER OR LANDLORD: (Check if same as occupant) [Property Manager]

Interviewed: Y N

Last Name: Monahan First Name: Tom
Address: 463 TOMPKINS AVE ST NY 10305
County: RICHMOND
^{Mich's} Home Phone: 917-995-8591 Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
Industrial

School
Church

Commercial/Multi-use
Other: _____

If the property is residential, type? (Circle appropriate response) N/A

- | | | |
|--------------|-----------------|-------------------|
| Ranch | 2-Family | 3-Family |
| Raised Ranch | Split Level | Colonial |
| Cape Cod | Contemporary | Mobile Home |
| Duplex | Apartment House | Townhouses/Condos |
| Modular | Log Home | Other: _____ |

If multiple units, how many? N/A

If the property is commercial, type?

Business Type(s) N/A

Does it include residences (i.e., multi-use)? Y / N If yes, how many? _____

Other characteristics:

Number of floors 4

Building age 1927 constructed

Is the building insulated? Y N

How air tight? Tight / Average / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

Natural air flow no HVAC

Airflow near source

N/A

Outdoor air infiltration

N/A

Infiltration into air ducts

N/A

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: full crawlspace slab other boiler room
- c. Basement floor: concrete dirt stone other _____
- d. Basement floor: uncovered covered covered with tile
- e. Concrete floor: unsealed sealed sealed with _____
- f. Foundation walls: poured block stone other brick at boiler room
- g. Foundation walls: unsealed sealed sealed with _____
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y/N in boiler room
- k. Water in sump? Y/N/not applicable

Basement/Lowest level depth below grade: ~6-8 (feet) boiler room

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

N/A

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply -- note primary)

- Hot air circulation
- Space Heaters
- Electric baseboard
- Heat pump
- Stream radiation
- Wood stove
- Hot water baseboard
- Radiant floor
- Outdoor wood boiler
- Other _____

The primary type of fuel used is:

- Natural Gas
- Electric
- Wood
- Fuel Oil #2
- Propane
- Coal
- Kerosene
- Solar

Domestic hot water tank fueled by: Gas

Boiler/furnace located in: Cellar Basement Boiler room Outdoors Main Floor Other _____

Air conditioning: Central Air Window units Open Windows None
(Natural Air through windows)

Are there air distribution ducts present? Y N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time

*Lounge
Stage
Multi-purpose Area
Occasionally*

Seldom

*Bar Room
Almost Never*

Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

| | |
|-----------------------|---|
| Basement | <i>Lounge, Multi-Purpose Room, Stage, Kitchen</i> |
| 1 st Floor | <i>Church offices / classrooms</i> |
| 2 nd Floor | |
| 3 rd Floor | |
| 4 th Floor | <i>Church offices / classrooms</i> |

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- a. Is there an attached garage? Y N
- b. Does the garage have a separate heating unit? Y / N NA
- c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / N NA
Please specify _____
- d. Has the building ever had a fire? Y N When? _____
- e. Is a kerosene or unvented gas space heater present? Y N Where? _____
- f. Is there a workshop or hobby/craft area? Y / N Where & Type? _____
- g. Is there smoking in the building? Y / N How frequently? _____
- h. Have cleaning products been used recently? Y N When & Type? _____
- i. Have cosmetic products been used recently? Y N When & Type? _____

- j. Has painting/staining been done in the last 6 months? Y / N Where & When? _____
- k. Is there new carpet, drapes or other textiles? Y / N Where & When? _____
- l. Have air fresheners been used recently? Y / N When & Type? _____
- m. Is there a kitchen exhaust fan? Y / N If yes, where vented? Roof
- n. Is there a bathroom exhaust fan? Y / N If yes, where vented? _____
- o. Is there a clothes dryer? Y / N If yes, is it vented outside? Y / N
- p. Has there been a pesticide application? Y / N When & Type? _____

Are there odors in the building? Y / N
 If yes, please describe: _____

Do any of the building occupants use solvents at work? Y / N
 (e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

- Yes, use dry-cleaning regularly (weekly) No
- Yes, use dry-cleaning infrequently (monthly or less) Unknown
- Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y / N Date of Installation: _____
 Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

- Water Supply: Public Water Drilled Well Driven Well Dug Well Other: _____
- Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

- a. Provide reasons why relocation is recommended: N/A
- b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel
- c. Responsibility for costs associated with reimbursement explained? Y / N
- d. Relocation package provided and explained to residents? Y / N

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:

N/A

First Floor:

(GROUND FLOOR)
REFER TO FIGURE 3

12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.

917-995-8591
Tom Marheban

REFER TO FIGURE 3

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: ppbRAE™ 3000 photo-ionization detector (PID)

| Location | Product Description | Size (units) | Condition* | Chemical Ingredients | Field Instrument Readings (PPM) | Photo Y/N |
|--------------------------|--|--------------|------------|----------------------|---------------------------------|-----------|
| Men's Bathroom | Lucky Hand Soap | 1 bot. | U | N/A | 0.0 | Y |
| Men's Bathroom | Derma Rite Kleen-N-Protect | 2 disp. | U | N/A | 0.0 | Y |
| Closet By Men's Bathroom | Eisco Eastern Liquid Enzyme Digester | 2 1qt bot. | U | N/A | 0.2 | Y |
| Closet By Men's Bathroom | Scotch-Gard Fabric Protector | 6 13oz cans | UO | N/A | 0.4 | Y |
| Closet By Men's Bathroom | Eisco Eastern Heavy Duty Degreaser Concentrate | 2 bot. | U | N/A | 0.3 | Y |
| Closet By Men's Bathroom | Claire Fast Kill Residual Roach and Ant Killer | 2 15oz cans | UO | N/A | 0.4 | Y |
| Closet By Men's Bathroom | Misty Chalkboard Cleaner | 1 19oz can | U | N/A | 0.4 | Y |
| Closet By Men's Bathroom | Chemspec Liqua-Gel with Biosol | 3 16oz bot. | U | N/A | 0.4 | Y |
| Closet By Men's Bathroom | Chemspec Professional Spot Lifter | 6 1L bot. | U | N/A | 0.9 | Y |
| Closet By Men's Bathroom | Eisco Eastern Prof. Institutional Cleaner | 6 12oz bot. | U | N/A | 0.4 | Y |
| Closet By Men's Bathroom | Eisco Eastern Prof. Magna Dust | 4 17oz bot. | UO | N/A | 0.4 | Y |
| Closet By Men's Bathroom | Fast Action Bab-O Cleanser | 2 14oz cans | UO | N/A | 0.4 | Y |
| Closet By Men's Bathroom | Ajax Oxygen Bleach Cleanser | 1 21oz can | UO | N/A | 0.4 | Y |
| Closet By Men's Bathroom | Misty Halt Liquid Drain Opener | 4 1qt bot. | UO | N/A | 0.2 | Y |

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: ppbRAE™ 3000 photo-ionization detector (PID)

| Location | Product Description | Size (units) | Condition* | Chemical Ingredients | Field Instrument Readings (PPM) | Photo Y/N |
|----------------------------|---|---------------|------------|----------------------|---------------------------------|-----------|
| Closet By Men's Bathroom | Ultra Pure Ultra Fine Deodorant Powder | 1 16oz can | UO | N/A | 0.2 | Y |
| Closet By Men's Bathroom | Super N Non-Chlorinated Nilogel | 2 8oz bot. | UO | N/A | 0.2 | Y |
| Closet By Men's Bathroom | Odor-Sorb Granulated Pine Scented Absorbent | 8 16oz bot. | UO | N/A | 0.2 | Y |
| Closet By Men's Bathroom | Indus Co LTD Perfect Solution Cleaner-Degreaser | 1 1gal can | U | N/A | 0.4 | Y |
| Closet By Men's Bathroom | Taski Impermo Stone Floor Impregnator | 3 1gal cans | U | N/A | 0.4 | Y |
| Closet By Men's Bathroom | Uncle Sam Jack Hammer Mop-Away | 3 1 gal cans | U | N/A | 0.4 | Y |
| Closet By Men's Bathroom | Taski Ultra Spray | 1 1gal bot. | U | N/A | 1.0 | Y |
| Closet By Men's Bathroom | Taski Solsan Dust Mop Treatment | 3 1 gal bot. | U | N/A | 1.0 | Y |
| Women's Bathroom | Lysol Disinfectant Spray | 1 19oz can | U | N/A | 0.0 | Y |
| Women's Bathroom | DermaRite Kleen-N-Protect | 3 disp. | U | N/A | 0.0 | Y |
| Women's Bathroom | Klar and Danuer Liquid Hand Soap | 2 15oz bot. | U | N/A | 0.0 | Y |
| Women's Bathroom | Lucky Super Soft Hand Soap | 1 13.5oz bot. | U | N/A | 0.0 | Y |
| Closet by Center Staircase | Scrubs Graffiti and Spray Paint Remover | 1 bot. | U | N/A | 0.0 | Y |

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: ppbRAE™ 3000 photo-ionization detector (PID)

| | | | | | | |
|----------------------------|--|-----------------|----|-----|-----|---|
| Closet by Center Staircase | Taski Ice-It Stripper | 1 1gal bot. | U | N/A | 0.0 | Y |
| Closet by Center Staircase | Saf-T-Spray – Spray Buff Liquid | 1 1gal bot. | U | N/A | 0.0 | Y |
| Closet by Center Staircase | Taski Wiwax Cleaning and Maint. Emulsion | 2 1gal bot. | UO | N/A | 0.0 | Y |
| Closet by Center Staircase | Golden Harvest Premium Paste for Unpasted Wallpaper | 1 1gal bot. | U | N/A | 0.0 | Y |
| Closet by Center Staircase | Stride Neutral Cleaner Concentrate | 1 1gal bot. | U | N/A | 0.0 | Y |
| Closet by Center Staircase | Cleanlike Pros Auz Heavy Duty All Purpose Cleaner | 1 1gal can | U | N/A | 0.0 | Y |
| Closet by Center Staircase | Brasso Metal Polish | 1 8oz can | U | N/A | 0.0 | Y |
| Closet by Center Staircase | Windex Outdoor Window and Surface | 4 32oz bot. | UO | N/A | 0.0 | Y |
| Closet by Center Staircase | Wilz 2 Latex Multipurpose Stain Blocker | 1 256 oz buck. | U | N/A | 0.0 | Y |
| Closet by Center Staircase | Benjamin Moore Fresh Start Superior Primer | 1 1gal can | U | N/A | 0.0 | Y |
| Closet by Center Staircase | USG Sheetrock Brand All Purpose Joint Compound | 2 61.7 lb buck. | U | N/A | 0.0 | Y |
| Closet by Center Staircase | Benjamin Moore Prof. Coatings Super Hide Pastel Base | 2 126oz cans | U | N/A | 0.0 | Y |
| Closet by Center Staircase | Benjamin Moore Premium Interior 100% Acrylic Paint | 2 126oz cans | U | N/A | 0.0 | Y |
| Closet by Center Staircase | Saf-T-Step Slip Resistant Floor Cleaner/Treatment | 1 1gal bot. | U | N/A | 0.0 | Y |
| Closet by Center Staircase | Service Master Clean Sanimaster 6 | 3 1gal bot. | U | N/A | 0.0 | Y |

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: ppbRAE™ 3000 photo-ionization detector (PID)

| | | | | | | |
|----------------------------|---|---------------|-----|-----|-----|---|
| Closet by Center Staircase | Taski Ultra Spray Emulsion | 4 1gal bot. | UO | N/A | 0.0 | Y |
| Closet by Center Staircase | UGI Drylok Fast Plug Hydraulic Cement | 1 10lb tub | U | N/A | 0.0 | Y |
| Auditorium | Premall Fire Extinguisher | 1 | UO | N/A | 0.0 | Y |
| Kitchen | Burke Supply Pink and Creamy Dish Cleaner | 1 1gal bot. | U | N/A | 0.0 | Y |
| Kitchen | Amerex Fire Extinguisher | 1 | N/A | N/A | 0.0 | Y |
| Kitchen | Kitchen Knight Fire Suppression System | 1 | N/A | N/A | 0.0 | Y |
| Kitchen | Badger Fire Protection | 1 | N/A | N/A | 0.0 | Y |
| Stage | Silicone I Rubber Sealant Window/Door | 1 10.1oz bot. | U | N/A | 0.0 | Y |
| Stage Closet | Cleansafe Dust Remover | 1 10oz can | U | N/A | 0.0 | Y |
| Stage Closet | Falcon Dust Off Compressed Gas Duster | 1 12oz can | U | N/A | 0.0 | Y |

* UO – Unopened / U – Used

PHOTO LOG

SITE: 104 Gordon Street
PROJECT #: 3017079-0088

DATE OF PHOTOS: November 27, 2015
PHOTOGRAPHER: Andrew Au

PHOTO 1: View of building from Targee Street.



PHOTO 2: View of ambient air sample collected in the yard.



PHOTO LOG

SITE: 104 Gordon Street
PROJECT #: 3017079-0088

DATE OF PHOTOS: November 27, 2015
PHOTOGRAPHER: Andrew Au

PHOTO 3: View of indoor air sample collected in the basement multi-purpose room.



PHOTO 4: View of indoor air sample collected in the basement lounge.



**INDOOR AIR QUALITY SURVEY
IMMACULATE CONCEPTION SCHOOL
104 GORDON STREET
STATEN ISLAND, NEW YORK 10304**

**APPENDIX B
LABORATORY ANALYTICAL DATA REPORT**



Technical Report

prepared for:

STV Incorporated
225 Park Avenue South
New York NY, 10003
Attention: Andrew Au

Report Date: 11/03/2015
Client Project ID: Immaculate Conception 3017079/0088
York Project (SDG) No.: 15J0950

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

STV Incorporated
225 Park Avenue South
New York NY, 10003
Attention: Andrew Au

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on October 26, 2015 and listed below. The project was identified as your project: **Immaculate Conception 3017079/0088**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

| <u>York Sample ID</u> | <u>Client Sample ID</u> | <u>Matrix</u> | <u>Date Collected</u> | <u>Date Received</u> |
|-----------------------|------------------------------|--------------------|-----------------------|----------------------|
| 15J0950-01 | 15523/Canister Certification | Air | 10/23/2015 | 10/26/2015 |
| 15J0950-02 | 16694/Canister Certification | Air | 10/23/2015 | 10/26/2015 |
| 15J0950-03 | Y62/Canister Certification | Air | 10/23/2015 | 10/26/2015 |
| 15J1072-01 | Yard | Outdoor Ambient Ai | 10/27/2015 | 10/28/2015 |
| 15J1072-02 | Multi-Purpose Rm | Indoor Ambient Air | 10/27/2015 | 10/28/2015 |
| 15J1072-03 | Lounge | Indoor Ambient Air | 10/27/2015 | 10/28/2015 |

General Notes for York Project (SDG) No.: 15J0950

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Date: 11/03/2015

Benjamin Gulizia
Laboratory Director





Sample Information

Client Sample ID: 15523/Canister Certification

York Sample ID: 15J0950-01

York Project (SDG) No.
15J0950

Client Project ID
Immaculate Conception 3017079/0088

Matrix
Air

Collection Date/Time
October 23, 2015 12:00 am

Date Received
10/26/2015

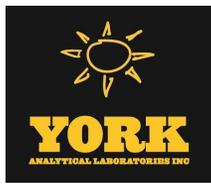
Volatile Organics, EPA TO15 Canister Certification

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

| CAS No. | Parameter | Result | Flag | Units | LOD/MDL | Reported to LOQ | Dilution | Reference Method | Date/Time Prepared | Date/Time Analyzed | Analyst |
|-------------|--------------------------------|--------|------|-------------------|---------|-----------------|----------|--|--------------------|--------------------|---------|
| 71-55-6 | 1,1,1-Trichloroethane | ND | | ug/m ³ | 0.55 | 0.55 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 12:29 | ALD |
| 75-34-3 | 1,1-Dichloroethane | ND | | ug/m ³ | 0.40 | 0.40 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 12:29 | ALD |
| 75-35-4 | 1,1-Dichloroethene | ND | | ug/m ³ | 0.40 | 0.40 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 12:29 | ALD |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | ug/m ³ | 0.49 | 0.49 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 12:29 | ALD |
| 95-50-1 | 1,2-Dichlorobenzene | ND | | ug/m ³ | 0.60 | 0.60 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 12:29 | ALD |
| 107-06-2 | 1,2-Dichloroethane | ND | | ug/m ³ | 0.40 | 0.40 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 12:29 | ALD |
| 78-87-5 | 1,2-Dichloropropane | ND | | ug/m ³ | 0.46 | 0.46 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 12:29 | ALD |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | ug/m ³ | 0.49 | 0.49 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 12:29 | ALD |
| 541-73-1 | 1,3-Dichlorobenzene | ND | | ug/m ³ | 0.60 | 0.60 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 12:29 | ALD |
| 71-43-2 | Benzene | ND | | ug/m ³ | 0.32 | 0.32 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 12:29 | ALD |
| 56-23-5 | Carbon tetrachloride | ND | | ug/m ³ | 0.16 | 0.16 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 12:29 | ALD |
| 108-90-7 | Chlorobenzene | ND | | ug/m ³ | 0.46 | 0.46 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 12:29 | ALD |
| 75-00-3 | Chloroethane | ND | | ug/m ³ | 0.26 | 0.26 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 12:29 | ALD |
| 74-87-3 | Chloromethane | ND | | ug/m ³ | 0.21 | 0.21 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 12:29 | ALD |
| 156-59-2 | cis-1,2-Dichloroethene | ND | | ug/m ³ | 0.40 | 0.40 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 12:29 | ALD |
| 100-41-4 | Ethylbenzene | ND | | ug/m ³ | 0.43 | 0.43 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 12:29 | ALD |
| 1634-04-4 | Methyl-tert-butyl-ether (MTBE) | ND | | ug/m ³ | 0.36 | 0.36 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 12:29 | ALD |
| 75-09-2 | Methylene chloride | ND | | ug/m ³ | 0.69 | 0.69 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 12:29 | ALD |
| 91-20-3 | Naphthalene | ND | | ug/m ³ | 1.0 | 1.0 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 12:29 | ALD |
| 95-47-6 | o-Xylene | ND | | ug/m ³ | 0.43 | 0.43 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 12:29 | ALD |
| 179601-23-1 | m,p- Xylenes | ND | | ug/m ³ | 0.87 | 0.87 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 12:29 | ALD |
| 127-18-4 | Tetrachloroethene (PCE) | ND | | ug/m ³ | 0.17 | 0.17 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 12:29 | ALD |
| 108-88-3 | Toluene | ND | | ug/m ³ | 0.38 | 0.38 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 12:29 | ALD |



Sample Information

Client Sample ID: 15523/Canister Certification

York Sample ID: 15J0950-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0950

Immaculate Conception 3017079/0088

Air

October 23, 2015 12:00 am

10/26/2015

Volatile Organics, EPA TO15 Canister Certification

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

| CAS No. | Parameter | Result | Flag | Units | LOD/MDL | Reported to LOQ | Dilution | Reference Method | Date/Time Prepared | Date/Time Analyzed | Analyst |
|----------|---|---------------|------|-------------------|-------------------------|-----------------|----------|--|--------------------|--------------------|---------|
| 156-60-5 | trans-1,2-Dichloroethene | ND | | ug/m ³ | 0.40 | 0.40 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 12:29 | ALD |
| 79-01-6 | Trichloroethene (TCE) | ND | | ug/m ³ | 0.13 | 0.13 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 12:29 | ALD |
| 75-01-4 | Vinyl Chloride | ND | | ug/m ³ | 0.26 | 0.26 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 12:29 | ALD |
| | Surrogate Recoveries | Result | | | Acceptance Range | | | | | | |
| 460-00-4 | Surrogate: <i>p</i> -Bromofluorobenzene | 87.2 % | | | 72-118 | | | | | | |

Sample Information

Client Sample ID: 16694/Canister Certification

York Sample ID: 15J0950-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0950

Immaculate Conception 3017079/0088

Air

October 23, 2015 12:00 am

10/26/2015

Volatile Organics, EPA TO15 Canister Certification

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

| CAS No. | Parameter | Result | Flag | Units | LOD/MDL | Reported to LOQ | Dilution | Reference Method | Date/Time Prepared | Date/Time Analyzed | Analyst |
|----------|------------------------|--------|------|-------------------|---------|-----------------|----------|--|--------------------|--------------------|---------|
| 71-55-6 | 1,1,1-Trichloroethane | ND | | ug/m ³ | 0.55 | 0.55 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 13:26 | ALD |
| 75-34-3 | 1,1-Dichloroethane | ND | | ug/m ³ | 0.40 | 0.40 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 13:26 | ALD |
| 75-35-4 | 1,1-Dichloroethene | ND | | ug/m ³ | 0.40 | 0.40 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 13:26 | ALD |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | ug/m ³ | 0.49 | 0.49 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 13:26 | ALD |
| 95-50-1 | 1,2-Dichlorobenzene | ND | | ug/m ³ | 0.60 | 0.60 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 13:26 | ALD |
| 107-06-2 | 1,2-Dichloroethane | ND | | ug/m ³ | 0.40 | 0.40 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 13:26 | ALD |
| 78-87-5 | 1,2-Dichloropropane | ND | | ug/m ³ | 0.46 | 0.46 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 13:26 | ALD |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | ug/m ³ | 0.49 | 0.49 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 13:26 | ALD |
| 541-73-1 | 1,3-Dichlorobenzene | ND | | ug/m ³ | 0.60 | 0.60 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 13:26 | ALD |
| 71-43-2 | Benzene | ND | | ug/m ³ | 0.32 | 0.32 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 13:26 | ALD |
| 56-23-5 | Carbon tetrachloride | ND | | ug/m ³ | 0.16 | 0.16 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 13:26 | ALD |
| 108-90-7 | Chlorobenzene | ND | | ug/m ³ | 0.46 | 0.46 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 13:26 | ALD |



Sample Information

Client Sample ID: 16694/Canister Certification

York Sample ID: 15J0950-02

| | | | | |
|--|--|----------------------|--|------------------------------------|
| <u>York Project (SDG) No.</u> 15J0950 | <u>Client Project ID</u> Immaculate Conception 3017079/0088 | <u>Matrix</u> Air | <u>Collection Date/Time</u> October 23, 2015 12:00 am | <u>Date Received</u> 10/26/2015 |
|--|--|----------------------|--|------------------------------------|

Volatile Organics, EPA TO15 Canister Certification

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

| CAS No. | Parameter | Result | Flag | Units | LOD/MDL | Reported to LOQ | Dilution | Reference Method | Date/Time Prepared | Date/Time Analyzed | Analyst |
|-----------------------------|---------------------------------|---------------|-------------------------|-------------------|---------|-----------------|----------|--|--------------------|--------------------|---------|
| 75-00-3 | Chloroethane | ND | | ug/m ³ | 0.26 | 0.26 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 13:26 | ALD |
| 74-87-3 | Chloromethane | ND | | ug/m ³ | 0.21 | 0.21 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 13:26 | ALD |
| 156-59-2 | cis-1,2-Dichloroethene | ND | | ug/m ³ | 0.40 | 0.40 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 13:26 | ALD |
| 100-41-4 | Ethylbenzene | ND | | ug/m ³ | 0.43 | 0.43 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 13:26 | ALD |
| 1634-04-4 | Methyl-tert-butyl-ether (MTBE) | ND | | ug/m ³ | 0.36 | 0.36 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 13:26 | ALD |
| 75-09-2 | Methylene chloride | ND | | ug/m ³ | 0.69 | 0.69 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 13:26 | ALD |
| 91-20-3 | Naphthalene | ND | | ug/m ³ | 1.0 | 1.0 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 13:26 | ALD |
| 95-47-6 | o-Xylene | ND | | ug/m ³ | 0.43 | 0.43 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 13:26 | ALD |
| 179601-23-1 | m,p- Xylenes | ND | | ug/m ³ | 0.87 | 0.87 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 13:26 | ALD |
| 127-18-4 | Tetrachloroethene (PCE) | ND | | ug/m ³ | 0.17 | 0.17 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 13:26 | ALD |
| 108-88-3 | Toluene | ND | | ug/m ³ | 0.38 | 0.38 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 13:26 | ALD |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | ug/m ³ | 0.40 | 0.40 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 13:26 | ALD |
| 79-01-6 | Trichloroethene (TCE) | ND | | ug/m ³ | 0.13 | 0.13 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 13:26 | ALD |
| 75-01-4 | Vinyl Chloride | ND | | ug/m ³ | 0.26 | 0.26 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 13:26 | ALD |
| Surrogate Recoveries | | Result | Acceptance Range | | | | | | | | |
| 460-00-4 | Surrogate: p-Bromofluorobenzene | 87.5 % | 72-118 | | | | | | | | |

Sample Information

Client Sample ID: Y62/Canister Certification

York Sample ID: 15J0950-03

| | | | | |
|--|--|----------------------|--|------------------------------------|
| <u>York Project (SDG) No.</u> 15J0950 | <u>Client Project ID</u> Immaculate Conception 3017079/0088 | <u>Matrix</u> Air | <u>Collection Date/Time</u> October 23, 2015 12:00 am | <u>Date Received</u> 10/26/2015 |
|--|--|----------------------|--|------------------------------------|

Volatile Organics, EPA TO15 Canister Certification

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

| CAS No. | Parameter | Result | Flag | Units | LOD/MDL | Reported to LOQ | Dilution | Reference Method | Date/Time Prepared | Date/Time Analyzed | Analyst |
|---------|-----------------------|--------|------|-------------------|---------|-----------------|----------|--|--------------------|--------------------|---------|
| 71-55-6 | 1,1,1-Trichloroethane | ND | | ug/m ³ | 0.55 | 0.55 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 14:23 | ALD |



Sample Information

Client Sample ID: Y62/Canister Certification

York Sample ID: 15J0950-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0950

Immaculate Conception 3017079/0088

Air

October 23, 2015 12:00 am

10/26/2015

Volatile Organics, EPA TO15 Canister Certification

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

| CAS No. | Parameter | Result | Flag | Units | LOD/MDL | Reported to LOQ | Dilution | Reference Method | Date/Time Prepared | Date/Time Analyzed | Analyst |
|-------------|--------------------------------|--------|------|-------------------|---------|-----------------|----------|--|--------------------|--------------------|---------|
| 75-34-3 | 1,1-Dichloroethane | ND | | ug/m ³ | 0.40 | 0.40 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 14:23 | ALD |
| 75-35-4 | 1,1-Dichloroethene | ND | | ug/m ³ | 0.40 | 0.40 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 14:23 | ALD |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | ug/m ³ | 0.49 | 0.49 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 14:23 | ALD |
| 95-50-1 | 1,2-Dichlorobenzene | ND | | ug/m ³ | 0.60 | 0.60 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 14:23 | ALD |
| 107-06-2 | 1,2-Dichloroethane | ND | | ug/m ³ | 0.40 | 0.40 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 14:23 | ALD |
| 78-87-5 | 1,2-Dichloropropane | ND | | ug/m ³ | 0.46 | 0.46 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 14:23 | ALD |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | ug/m ³ | 0.49 | 0.49 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 14:23 | ALD |
| 541-73-1 | 1,3-Dichlorobenzene | ND | | ug/m ³ | 0.60 | 0.60 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 14:23 | ALD |
| 71-43-2 | Benzene | ND | | ug/m ³ | 0.32 | 0.32 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 14:23 | ALD |
| 56-23-5 | Carbon tetrachloride | ND | | ug/m ³ | 0.16 | 0.16 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 14:23 | ALD |
| 108-90-7 | Chlorobenzene | ND | | ug/m ³ | 0.46 | 0.46 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 14:23 | ALD |
| 75-00-3 | Chloroethane | ND | | ug/m ³ | 0.26 | 0.26 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 14:23 | ALD |
| 74-87-3 | Chloromethane | ND | | ug/m ³ | 0.21 | 0.21 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 14:23 | ALD |
| 156-59-2 | cis-1,2-Dichloroethene | ND | | ug/m ³ | 0.40 | 0.40 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 14:23 | ALD |
| 100-41-4 | Ethylbenzene | ND | | ug/m ³ | 0.43 | 0.43 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 14:23 | ALD |
| 1634-04-4 | Methyl-tert-butyl-ether (MTBE) | ND | | ug/m ³ | 0.36 | 0.36 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 14:23 | ALD |
| 75-09-2 | Methylene chloride | ND | | ug/m ³ | 0.69 | 0.69 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 14:23 | ALD |
| 91-20-3 | Naphthalene | ND | | ug/m ³ | 1.0 | 1.0 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 14:23 | ALD |
| 95-47-6 | o-Xylene | ND | | ug/m ³ | 0.43 | 0.43 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 14:23 | ALD |
| 179601-23-1 | m,p- Xylenes | ND | | ug/m ³ | 0.87 | 0.87 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 14:23 | ALD |
| 127-18-4 | Tetrachloroethene (PCE) | ND | | ug/m ³ | 0.17 | 0.17 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 14:23 | ALD |
| 108-88-3 | Toluene | ND | | ug/m ³ | 0.38 | 0.38 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 14:23 | ALD |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | ug/m ³ | 0.40 | 0.40 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 14:23 | ALD |
| 79-01-6 | Trichloroethene (TCE) | ND | | ug/m ³ | 0.13 | 0.13 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 14:23 | ALD |



Sample Information

Client Sample ID: Y62/Canister Certification

York Sample ID: 15J0950-03

| | | | | |
|--|--|----------------------|--|------------------------------------|
| <u>York Project (SDG) No.</u> 15J0950 | <u>Client Project ID</u> Immaculate Conception 3017079/0088 | <u>Matrix</u> Air | <u>Collection Date/Time</u> October 23, 2015 12:00 am | <u>Date Received</u> 10/26/2015 |
|--|--|----------------------|--|------------------------------------|

Volatile Organics, EPA TO15 Canister Certification

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

| CAS No. | Parameter | Result | Flag | Units | LOD/MDL | Reported to LOQ | Dilution | Reference Method | Date/Time Prepared | Date/Time Analyzed | Analyst |
|-----------------------------|---|---------------|-------------------------|-------------------|---------|-----------------|----------|--|--------------------|--------------------|---------|
| 75-01-4 | Vinyl Chloride | ND | | ug/m ³ | 0.26 | 0.26 | 1 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 10/26/2015 06:07 | 10/26/2015 14:23 | ALD |
| Surrogate Recoveries | | Result | Acceptance Range | | | | | | | | |
| 460-00-4 | Surrogate: <i>p</i> -Bromofluorobenzene | 86.4 % | 72-118 | | | | | | | | |

Sample Information

Client Sample ID: Yard

York Sample ID: 15J1072-01

| | | | | |
|--|--|--------------------------------------|---|------------------------------------|
| <u>York Project (SDG) No.</u> 15J1072 | <u>Client Project ID</u> Immaculate Conception 3017079/0088 | <u>Matrix</u> Outdoor Ambient Air | <u>Collection Date/Time</u> October 27, 2015 3:00 pm | <u>Date Received</u> 10/28/2015 |
|--|--|--------------------------------------|---|------------------------------------|

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

| CAS No. | Parameter | Result | Flag | Units | LOD/MDL | Reported to LOQ | Dilution | Reference Method | Date/Time Prepared | Date/Time Analyzed | Analyst |
|----------|------------------------|------------|------|-------------------|---------|-----------------|----------|--|--------------------|--------------------|---------|
| 71-55-6 | 1,1,1-Trichloroethane | ND | | ug/m ³ | 0.68 | 0.68 | 1.25 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 14:27 | ALD |
| 75-34-3 | 1,1-Dichloroethane | ND | | ug/m ³ | 0.51 | 0.51 | 1.25 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 14:27 | ALD |
| 75-35-4 | 1,1-Dichloroethene | ND | | ug/m ³ | 0.50 | 0.50 | 1.25 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 14:27 | ALD |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | ug/m ³ | 0.61 | 0.61 | 1.25 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 14:27 | ALD |
| 95-50-1 | 1,2-Dichlorobenzene | ND | | ug/m ³ | 0.75 | 0.75 | 1.25 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 14:27 | ALD |
| 107-06-2 | 1,2-Dichloroethane | ND | | ug/m ³ | 0.51 | 0.51 | 1.25 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 14:27 | ALD |
| 78-87-5 | 1,2-Dichloropropane | ND | | ug/m ³ | 0.58 | 0.58 | 1.25 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 14:27 | ALD |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | ug/m ³ | 0.61 | 0.61 | 1.25 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 14:27 | ALD |
| 541-73-1 | 1,3-Dichlorobenzene | ND | | ug/m ³ | 0.75 | 0.75 | 1.25 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 14:27 | ALD |
| 71-43-2 | Benzene | 1.2 | D | ug/m ³ | 0.40 | 0.40 | 1.25 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 14:27 | ALD |
| 56-23-5 | Carbon tetrachloride | ND | | ug/m ³ | 0.20 | 0.20 | 1.25 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 14:27 | ALD |
| 108-90-7 | Chlorobenzene | ND | | ug/m ³ | 0.58 | 0.58 | 1.25 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 14:27 | ALD |
| 75-00-3 | Chloroethane | ND | | ug/m ³ | 0.33 | 0.33 | 1.25 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 14:27 | ALD |
| 74-87-3 | Chloromethane | 1.1 | D | ug/m ³ | 0.26 | 0.26 | 1.25 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 14:27 | ALD |



Sample Information

Client Sample ID: Yard

York Sample ID: 15J1072-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J1072

Immaculate Conception 3017079/0088

Outdoor Ambient Air

October 27, 2015 3:00 pm

10/28/2015

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

| CAS No. | Parameter | Result | Flag | Units | LOD/MDL | Reported to LOQ | Dilution | Reference Method | Date/Time Prepared | Date/Time Analyzed | Analyst |
|-----------------------------|---------------------------------|---------------|-------------------------|-------------------|---------|--------------------|----------|--|-----------------------|-----------------------|---------|
| 156-59-2 | cis-1,2-Dichloroethene | ND | | ug/m ³ | 0.50 | 0.50 | 1.25 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 14:27 | ALD |
| 100-41-4 | Ethylbenzene | ND | | ug/m ³ | 0.54 | 0.54 | 1.25 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 14:27 | ALD |
| 1634-04-4 | Methyl-tert-butyl-ether (MTBE) | ND | | ug/m ³ | 0.45 | 0.45 | 1.25 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 14:27 | ALD |
| 75-09-2 | Methylene chloride | 1.1 | D | ug/m ³ | 0.87 | 0.87 | 1.25 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 14:27 | ALD |
| 91-20-3 | Naphthalene | 11 | D | ug/m ³ | 1.3 | 1.3 | 1.25 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 14:27 | ALD |
| 95-47-6 | o-Xylene | ND | | ug/m ³ | 0.54 | 0.54 | 1.25 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 14:27 | ALD |
| 179601-23-1 | m,p- Xylenes | 1.4 | D | ug/m ³ | 1.1 | 1.1 | 1.25 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 14:27 | ALD |
| 127-18-4 | Tetrachloroethene (PCE) | ND | | ug/m ³ | 0.85 | 0.85 | 1.25 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 14:27 | ALD |
| 108-88-3 | Toluene | 2.3 | D | ug/m ³ | 0.47 | 0.47 | 1.25 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 14:27 | ALD |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | ug/m ³ | 0.50 | 0.50 | 1.25 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 14:27 | ALD |
| 79-01-6 | Trichloroethene (TCE) | ND | | ug/m ³ | 0.17 | 0.17 | 1.25 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 14:27 | ALD |
| 75-01-4 | Vinyl Chloride | ND | | ug/m ³ | 0.080 | 0.080 | 1.25 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 14:27 | ALD |
| Surrogate Recoveries | | Result | Acceptance Range | | | | | | | | |
| 460-00-4 | Surrogate: p-Bromofluorobenzene | 101 % | 72-118 | | | | | | | | |

Sample Information

Client Sample ID: Multi-Purpose Rm

York Sample ID: 15J1072-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J1072

Immaculate Conception 3017079/0088

Indoor Ambient Air

October 27, 2015 3:00 pm

10/28/2015

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

| CAS No. | Parameter | Result | Flag | Units | LOD/MDL | Reported to LOQ | Dilution | Reference Method | Date/Time Prepared | Date/Time Analyzed | Analyst |
|---------|-----------------------|--------|------|-------------------|---------|--------------------|----------|--|-----------------------|-----------------------|---------|
| 71-55-6 | 1,1,1-Trichloroethane | ND | | ug/m ³ | 0.75 | 0.75 | 1.379 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 15:28 | ALD |
| 75-34-3 | 1,1-Dichloroethane | ND | | ug/m ³ | 0.56 | 0.56 | 1.379 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 15:28 | ALD |
| 75-35-4 | 1,1-Dichloroethene | ND | | ug/m ³ | 0.55 | 0.55 | 1.379 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 15:28 | ALD |



Sample Information

Client Sample ID: Multi-Purpose Rm

York Sample ID: 15J1072-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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15J1072

Immaculate Conception 3017079/0088

Indoor Ambient Air

October 27, 2015 3:00 pm

10/28/2015

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

| CAS No. | Parameter | Result | Flag | Units | LOD/MDL | Reported to LOQ | Dilution | Reference Method | Date/Time Prepared | Date/Time Analyzed | Analyst |
|-------------|--------------------------------|--------|------|-------------------|---------|-----------------|----------|--|--------------------|--------------------|---------|
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.68 | D | ug/m ³ | 0.68 | 0.68 | 1.379 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 15:28 | ALD |
| 95-50-1 | 1,2-Dichlorobenzene | ND | | ug/m ³ | 0.83 | 0.83 | 1.379 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 15:28 | ALD |
| 107-06-2 | 1,2-Dichloroethane | ND | | ug/m ³ | 0.56 | 0.56 | 1.379 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 15:28 | ALD |
| 78-87-5 | 1,2-Dichloropropane | ND | | ug/m ³ | 0.64 | 0.64 | 1.379 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 15:28 | ALD |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | ug/m ³ | 0.68 | 0.68 | 1.379 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 15:28 | ALD |
| 541-73-1 | 1,3-Dichlorobenzene | ND | | ug/m ³ | 0.83 | 0.83 | 1.379 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 15:28 | ALD |
| 71-43-2 | Benzene | 1.5 | D | ug/m ³ | 0.44 | 0.44 | 1.379 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 15:28 | ALD |
| 56-23-5 | Carbon tetrachloride | ND | | ug/m ³ | 0.22 | 0.22 | 1.379 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 15:28 | ALD |
| 108-90-7 | Chlorobenzene | ND | | ug/m ³ | 0.63 | 0.63 | 1.379 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 15:28 | ALD |
| 75-00-3 | Chloroethane | ND | | ug/m ³ | 0.36 | 0.36 | 1.379 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 15:28 | ALD |
| 74-87-3 | Chloromethane | 1.0 | D | ug/m ³ | 0.28 | 0.28 | 1.379 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 15:28 | ALD |
| 156-59-2 | cis-1,2-Dichloroethene | ND | | ug/m ³ | 0.55 | 0.55 | 1.379 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 15:28 | ALD |
| 100-41-4 | Ethylbenzene | 0.84 | D | ug/m ³ | 0.60 | 0.60 | 1.379 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 15:28 | ALD |
| 1634-04-4 | Methyl-tert-butyl-ether (MTBE) | ND | | ug/m ³ | 0.50 | 0.50 | 1.379 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 15:28 | ALD |
| 75-09-2 | Methylene chloride | 1.6 | D | ug/m ³ | 0.96 | 0.96 | 1.379 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 15:28 | ALD |
| 91-20-3 | Naphthalene | 3.0 | D | ug/m ³ | 1.4 | 1.4 | 1.379 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 15:28 | ALD |
| 95-47-6 | o-Xylene | 0.84 | D | ug/m ³ | 0.60 | 0.60 | 1.379 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 15:28 | ALD |
| 179601-23-1 | m,p- Xylenes | 2.6 | D | ug/m ³ | 1.2 | 1.2 | 1.379 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 15:28 | ALD |
| 127-18-4 | Tetrachloroethene (PCE) | ND | | ug/m ³ | 0.94 | 0.94 | 1.379 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 15:28 | ALD |
| 108-88-3 | Toluene | 3.9 | D | ug/m ³ | 0.52 | 0.52 | 1.379 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 15:28 | ALD |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | ug/m ³ | 0.55 | 0.55 | 1.379 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 15:28 | ALD |
| 79-01-6 | Trichloroethene (TCE) | ND | | ug/m ³ | 0.19 | 0.19 | 1.379 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 15:28 | ALD |
| 75-01-4 | Vinyl Chloride | ND | | ug/m ³ | 0.088 | 0.088 | 1.379 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 15:28 | ALD |



Sample Information

Client Sample ID: Multi-Purpose Rm

York Sample ID: 15J1072-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J1072

Immaculate Conception 3017079/0088

Indoor Ambient Air

October 27, 2015 3:00 pm

10/28/2015

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

| CAS No. | Parameter | Result | Flag | Units | LOD/MDL | Reported to LOQ | Dilution | Reference Method | Date/Time Prepared | Date/Time Analyzed | Analyst |
|-----------------------------|---|---------------|-------------------------|-------|---------|-----------------|----------|------------------|--------------------|--------------------|---------|
| Surrogate Recoveries | | Result | Acceptance Range | | | | | | | | |
| 460-00-4 | Surrogate: <i>p</i> -Bromofluorobenzene | 99.2 % | | | | 72-118 | | | | | |

Sample Information

Client Sample ID: Lounge

York Sample ID: 15J1072-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J1072

Immaculate Conception 3017079/0088

Indoor Ambient Air

October 27, 2015 3:00 pm

10/28/2015

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

| CAS No. | Parameter | Result | Flag | Units | LOD/MDL | Reported to LOQ | Dilution | Reference Method | Date/Time Prepared | Date/Time Analyzed | Analyst |
|----------|-------------------------------|-------------|------|-------------------|---------|-----------------|----------|--|--------------------|--------------------|---------|
| 71-55-6 | 1,1,1-Trichloroethane | ND | | ug/m ³ | 0.62 | 0.62 | 1.144 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 16:31 | ALD |
| 75-34-3 | 1,1-Dichloroethane | ND | | ug/m ³ | 0.46 | 0.46 | 1.144 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 16:31 | ALD |
| 75-35-4 | 1,1-Dichloroethene | ND | | ug/m ³ | 0.45 | 0.45 | 1.144 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 16:31 | ALD |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.62 | D | ug/m ³ | 0.56 | 0.56 | 1.144 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 16:31 | ALD |
| 95-50-1 | 1,2-Dichlorobenzene | ND | | ug/m ³ | 0.69 | 0.69 | 1.144 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 16:31 | ALD |
| 107-06-2 | 1,2-Dichloroethane | ND | | ug/m ³ | 0.46 | 0.46 | 1.144 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 16:31 | ALD |
| 78-87-5 | 1,2-Dichloropropane | ND | | ug/m ³ | 0.53 | 0.53 | 1.144 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 16:31 | ALD |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | ug/m ³ | 0.56 | 0.56 | 1.144 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 16:31 | ALD |
| 541-73-1 | 1,3-Dichlorobenzene | ND | | ug/m ³ | 0.69 | 0.69 | 1.144 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 16:31 | ALD |
| 71-43-2 | Benzene | 1.4 | D | ug/m ³ | 0.37 | 0.37 | 1.144 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 16:31 | ALD |
| 56-23-5 | Carbon tetrachloride | ND | | ug/m ³ | 0.18 | 0.18 | 1.144 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 16:31 | ALD |
| 108-90-7 | Chlorobenzene | ND | | ug/m ³ | 0.53 | 0.53 | 1.144 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 16:31 | ALD |
| 75-00-3 | Chloroethane | ND | | ug/m ³ | 0.30 | 0.30 | 1.144 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 16:31 | ALD |
| 74-87-3 | Chloromethane | 0.97 | D | ug/m ³ | 0.24 | 0.24 | 1.144 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 16:31 | ALD |
| 156-59-2 | cis-1,2-Dichloroethene | ND | | ug/m ³ | 0.45 | 0.45 | 1.144 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 16:31 | ALD |



Sample Information

Client Sample ID: Lounge

York Sample ID: 15J1072-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J1072

Immaculate Conception 3017079/0088

Indoor Ambient Air

October 27, 2015 3:00 pm

10/28/2015

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

| CAS No. | Parameter | Result | Flag | Units | LOD/MDL | Reported to LOQ | Dilution | Reference Method | Date/Time Prepared | Date/Time Analyzed | Analyst |
|-----------------------------|---------------------------------|---------------|------|-------------------|-------------------------|-----------------|----------|--|--------------------|--------------------|---------|
| 100-41-4 | Ethylbenzene | 0.60 | D | ug/m ³ | 0.50 | 0.50 | 1.144 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 16:31 | ALD |
| 1634-04-4 | Methyl-tert-butyl-ether (MTBE) | ND | | ug/m ³ | 0.41 | 0.41 | 1.144 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 16:31 | ALD |
| 75-09-2 | Methylene chloride | 1.4 | D | ug/m ³ | 0.79 | 0.79 | 1.144 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 16:31 | ALD |
| 91-20-3 | Naphthalene | ND | | ug/m ³ | 1.2 | 1.2 | 1.144 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 16:31 | ALD |
| 95-47-6 | o-Xylene | 0.65 | D | ug/m ³ | 0.50 | 0.50 | 1.144 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 16:31 | ALD |
| 179601-23-1 | m,p- Xylenes | 1.8 | D | ug/m ³ | 0.99 | 0.99 | 1.144 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 16:31 | ALD |
| 127-18-4 | Tetrachloroethene (PCE) | ND | | ug/m ³ | 0.78 | 0.78 | 1.144 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 16:31 | ALD |
| 108-88-3 | Toluene | 3.4 | D | ug/m ³ | 0.43 | 0.43 | 1.144 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 16:31 | ALD |
| 156-60-5 | trans-1,2-Dichloroethene | ND | | ug/m ³ | 0.45 | 0.45 | 1.144 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 16:31 | ALD |
| 79-01-6 | Trichloroethene (TCE) | ND | | ug/m ³ | 0.15 | 0.15 | 1.144 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 16:31 | ALD |
| 75-01-4 | Vinyl Chloride | ND | | ug/m ³ | 0.073 | 0.073 | 1.144 | EPA TO-15 Certifications: NELAC-NY10854,NJDEP | 11/01/2015 08:07 | 11/02/2015 16:31 | ALD |
| Surrogate Recoveries | | Result | | | Acceptance Range | | | | | | |
| 460-00-4 | Surrogate: p-Bromofluorobenzene | 99.3 % | | | 72-118 | | | | | | |



Analytical Batch Summary

Batch ID: BJ51573 **Preparation Method:** EPA TO15 PREP **Prepared By:** ALD

| YORK Sample ID | Client Sample ID | Preparation Date |
|----------------|------------------------------|------------------|
| 15J0950-01 | 15523/Canister Certification | 10/26/15 |
| 15J0950-02 | 16694/Canister Certification | 10/26/15 |
| 15J0950-03 | Y62/Canister Certification | 10/26/15 |
| BJ51573-BLK1 | Blank | 10/26/15 |
| BJ51573-BS1 | LCS | 10/26/15 |

Batch ID: BK50001 **Preparation Method:** EPA TO15 PREP **Prepared By:** ALD

| YORK Sample ID | Client Sample ID | Preparation Date |
|----------------|------------------|------------------|
| 15J1072-01 | Yard | 11/01/15 |
| 15J1072-02 | Multi-Purpose Rm | 11/01/15 |
| 15J1072-03 | Lounge | 11/01/15 |
| BK50001-BLK1 | Blank | 11/01/15 |
| BK50001-BS1 | LCS | 11/01/15 |



Volatile Organic Compounds in Air by GC/MS - Quality Control Data
York Analytical Laboratories, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source* Result | %REC | %REC Limits | Flag | RPD | RPD Limit | Flag |
|---------|--------|-----------------|-------|-------------|----------------|------|-------------|------|-----|-----------|------|
|---------|--------|-----------------|-------|-------------|----------------|------|-------------|------|-----|-----------|------|

Batch BJ51573 - EPA TO15 PREP

Blank (BJ51573-BLK1)

Prepared & Analyzed: 10/26/2015

| | | | | | | | | | | | |
|--|------|------|-------------------|------|--|------|--------|--|--|--|--|
| 1,1,1-Trichloroethane | ND | 0.55 | ug/m ³ | | | | | | | | |
| 1,1-Dichloroethane | ND | 0.40 | " | | | | | | | | |
| 1,1-Dichloroethene | ND | 0.40 | " | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.49 | " | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.60 | " | | | | | | | | |
| 1,2-Dichloroethane | ND | 0.40 | " | | | | | | | | |
| 1,2-Dichloropropane | ND | 0.46 | " | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.49 | " | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.60 | " | | | | | | | | |
| Benzene | ND | 0.32 | " | | | | | | | | |
| Carbon tetrachloride | ND | 0.16 | " | | | | | | | | |
| Chlorobenzene | ND | 0.46 | " | | | | | | | | |
| Chloroethane | ND | 0.26 | " | | | | | | | | |
| Chloromethane | ND | 0.21 | " | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.40 | " | | | | | | | | |
| Ethylbenzene | ND | 0.43 | " | | | | | | | | |
| Methyl-tert-butyl-ether (MTBE) | ND | 0.36 | " | | | | | | | | |
| Methylene chloride | ND | 0.69 | " | | | | | | | | |
| Naphthalene | ND | 1.0 | " | | | | | | | | |
| o-Xylene | ND | 0.43 | " | | | | | | | | |
| m,p- Xylenes | ND | 0.87 | " | | | | | | | | |
| Tetrachloroethene (PCE) | ND | 0.17 | " | | | | | | | | |
| Toluene | ND | 0.38 | " | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.40 | " | | | | | | | | |
| Trichloroethene (TCE) | ND | 0.13 | " | | | | | | | | |
| Vinyl Chloride | ND | 0.26 | " | | | | | | | | |
| <i>Surrogate: p-Bromofluorobenzene</i> | 9.17 | | ppbv | 10.4 | | 88.2 | 72-118 | | | | |



Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source* Result | %REC | %REC Limits | Flag | RPD | RPD Limit | Flag |
|---------|--------|-----------------|-------|-------------|----------------|------|-------------|------|-----|-----------|------|
|---------|--------|-----------------|-------|-------------|----------------|------|-------------|------|-----|-----------|------|

Batch BJ51573 - EPA TO15 PREP

LCS (BJ51573-BS1)

Prepared & Analyzed: 10/26/2015

| | | | | | | | | | | | |
|---------------------------------|------|--|------|------|--|------|--------|-----------|--|--|--|
| 1,1,1-Trichloroethane | 8.49 | | ppbv | 10.2 | | 83.2 | 70-130 | | | | |
| 1,1-Dichloroethane | 9.51 | | " | 10.2 | | 93.2 | 70-130 | | | | |
| 1,1-Dichloroethene | 9.64 | | " | 10.4 | | 92.7 | 70-130 | | | | |
| 1,2,4-Trimethylbenzene | 10.2 | | " | 10.2 | | 100 | 70-130 | | | | |
| 1,2-Dichlorobenzene | 9.94 | | " | 10.1 | | 98.4 | 70-130 | | | | |
| 1,2-Dichloroethane | 9.36 | | " | 10.2 | | 91.8 | 70-130 | | | | |
| 1,2-Dichloropropane | 11.8 | | " | 10.2 | | 115 | 70-130 | | | | |
| 1,3,5-Trimethylbenzene | 9.60 | | " | 10.0 | | 96.0 | 70-130 | | | | |
| 1,3-Dichlorobenzene | 10.3 | | " | 10.2 | | 101 | 70-130 | | | | |
| Benzene | 8.85 | | " | 10.3 | | 85.9 | 70-130 | | | | |
| Carbon tetrachloride | 8.32 | | " | 10.2 | | 81.6 | 70-130 | | | | |
| Chlorobenzene | 9.62 | | " | 10.5 | | 91.6 | 70-130 | | | | |
| Chloroethane | 8.95 | | " | 9.40 | | 95.2 | 70-130 | | | | |
| Chloromethane | 16.6 | | " | 9.80 | | 169 | 70-130 | High Bias | | | |
| cis-1,2-Dichloroethene | 9.66 | | " | 10.2 | | 94.7 | 70-130 | | | | |
| Ethylbenzene | 9.78 | | " | 10.4 | | 94.0 | 70-130 | | | | |
| Methyl-tert-butyl-ether (MTBE) | 8.78 | | " | 10.3 | | 85.2 | 70-130 | | | | |
| Methylene chloride | 9.58 | | " | 10.4 | | 92.1 | 70-130 | | | | |
| Naphthalene | 12.7 | | " | 10.0 | | 127 | 70-130 | | | | |
| o-Xylene | 10.4 | | " | 10.3 | | 101 | 70-130 | | | | |
| m,p- Xylenes | 21.1 | | " | 20.2 | | 105 | 70-130 | | | | |
| Tetrachloroethene (PCE) | 9.82 | | " | 9.90 | | 99.2 | 70-130 | | | | |
| Toluene | 11.4 | | " | 10.5 | | 108 | 70-130 | | | | |
| trans-1,2-Dichloroethene | 9.30 | | " | 10.1 | | 92.1 | 70-130 | | | | |
| Trichloroethene (TCE) | 10.1 | | " | 10.2 | | 99.3 | 70-130 | | | | |
| Vinyl Chloride | 16.7 | | " | 9.90 | | 168 | 70-130 | High Bias | | | |
| Surrogate: p-Bromofluorobenzene | 9.33 | | " | 10.4 | | 89.7 | 72-118 | | | | |



Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

| Analyte | Result | Reporting | Units | Spike | Source* | %REC | Flag | RPD | RPD | Limit | Flag |
|---------|--------|-----------|-------|-------|---------|--------|------|-------|-----|-------|------|
| | | Limit | | Level | Result | Limits | | Limit | | | |

Batch BK50001 - EPA TO15 PREP

Blank (BK50001-BLK1)

Prepared: 11/01/2015 Analyzed: 11/02/2015

| | | | | | | | | | | | |
|--|-------------|-------|-------------------|-------------|--|-------------|--|---------------|--|--|--|
| 1,1,1-Trichloroethane | ND | 0.55 | ug/m ³ | | | | | | | | |
| 1,1-Dichloroethane | ND | 0.40 | " | | | | | | | | |
| 1,1-Dichloroethene | ND | 0.40 | " | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.49 | " | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.60 | " | | | | | | | | |
| 1,2-Dichloroethane | ND | 0.40 | " | | | | | | | | |
| 1,2-Dichloropropane | ND | 0.46 | " | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.49 | " | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.60 | " | | | | | | | | |
| Benzene | ND | 0.32 | " | | | | | | | | |
| Carbon tetrachloride | ND | 0.16 | " | | | | | | | | |
| Chlorobenzene | ND | 0.46 | " | | | | | | | | |
| Chloroethane | ND | 0.26 | " | | | | | | | | |
| Chloromethane | ND | 0.21 | " | | | | | | | | |
| cis-1,2-Dichloroethene | ND | 0.40 | " | | | | | | | | |
| Ethylbenzene | ND | 0.43 | " | | | | | | | | |
| Methyl-tert-butyl-ether (MTBE) | ND | 0.36 | " | | | | | | | | |
| Methylene chloride | ND | 0.69 | " | | | | | | | | |
| Naphthalene | ND | 1.0 | " | | | | | | | | |
| o-Xylene | ND | 0.43 | " | | | | | | | | |
| m,p- Xylenes | ND | 0.87 | " | | | | | | | | |
| Tetrachloroethene (PCE) | ND | 0.68 | " | | | | | | | | |
| Toluene | ND | 0.38 | " | | | | | | | | |
| trans-1,2-Dichloroethene | ND | 0.40 | " | | | | | | | | |
| Trichloroethene (TCE) | ND | 0.13 | " | | | | | | | | |
| Vinyl Chloride | ND | 0.064 | " | | | | | | | | |
| <i>Surrogate: p-Bromofluorobenzene</i> | <i>10.0</i> | | <i>ppbv</i> | <i>10.4</i> | | <i>96.5</i> | | <i>72-118</i> | | | |



Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

| Analyte | Result | Reporting | Units | Spike Level | Source* | %REC | %REC Limits | Flag | RPD | RPD | |
|---------|--------|-----------|-------|----------------|---------|------|----------------|------|-----|-------|------|
| | | Limit | | | Result | | | | | Limit | Flag |

Batch BK50001 - EPA TO15 PREP

LCS (BK50001-BS1)

Prepared: 11/01/2015 Analyzed: 11/02/2015

| | | | | | | | | | | | |
|--|-------------|--|----------|-------------|--|-------------|---------------|--|--|--|--|
| 1,1,1-Trichloroethane | 9.94 | | ppbv | 10.2 | | 97.5 | 70-130 | | | | |
| 1,1-Dichloroethane | 9.97 | | " | 10.2 | | 97.7 | 70-130 | | | | |
| 1,1-Dichloroethene | 10.3 | | " | 10.4 | | 98.9 | 70-130 | | | | |
| 1,2,4-Trimethylbenzene | 10.6 | | " | 10.2 | | 104 | 70-130 | | | | |
| 1,2-Dichlorobenzene | 9.74 | | " | 10.1 | | 96.4 | 70-130 | | | | |
| 1,2-Dichloroethane | 10.1 | | " | 10.2 | | 99.2 | 70-130 | | | | |
| 1,2-Dichloropropane | 10.1 | | " | 10.2 | | 99.0 | 70-130 | | | | |
| 1,3,5-Trimethylbenzene | 9.99 | | " | 10.0 | | 99.9 | 70-130 | | | | |
| 1,3-Dichlorobenzene | 10.3 | | " | 10.2 | | 101 | 70-130 | | | | |
| Benzene | 10.0 | | " | 10.3 | | 97.6 | 70-130 | | | | |
| Carbon tetrachloride | 9.73 | | " | 10.2 | | 95.4 | 70-130 | | | | |
| Chlorobenzene | 9.93 | | " | 10.5 | | 94.6 | 70-130 | | | | |
| Chloroethane | 9.59 | | " | 9.40 | | 102 | 70-130 | | | | |
| Chloromethane | 7.72 | | " | 9.80 | | 78.8 | 70-130 | | | | |
| cis-1,2-Dichloroethene | 10.4 | | " | 10.2 | | 102 | 70-130 | | | | |
| Ethylbenzene | 10.4 | | " | 10.4 | | 100 | 70-130 | | | | |
| Methyl-tert-butyl-ether (MTBE) | 10.6 | | " | 10.3 | | 103 | 70-130 | | | | |
| Methylene chloride | 9.37 | | " | 10.4 | | 90.1 | 70-130 | | | | |
| Naphthalene | 9.31 | | " | 10.0 | | 93.1 | 70-130 | | | | |
| o-Xylene | 10.9 | | " | 10.3 | | 106 | 70-130 | | | | |
| m,p- Xylenes | 20.9 | | " | 20.2 | | 103 | 70-130 | | | | |
| Tetrachloroethene (PCE) | 9.60 | | " | 9.90 | | 97.0 | 70-130 | | | | |
| Toluene | 10.6 | | " | 10.5 | | 101 | 70-130 | | | | |
| trans-1,2-Dichloroethene | 9.97 | | " | 10.1 | | 98.7 | 70-130 | | | | |
| Trichloroethene (TCE) | 9.70 | | " | 10.2 | | 95.1 | 70-130 | | | | |
| Vinyl Chloride | 8.19 | | " | 9.90 | | 82.7 | 70-130 | | | | |
| <i>Surrogate: p-Bromofluorobenzene</i> | <i>10.3</i> | | <i>"</i> | <i>10.4</i> | | <i>98.8</i> | <i>72-118</i> | | | | |



Notes and Definitions

QL-03 This LCS analyte recovered outside of acceptance limits. The LCS contains approximately 70 compounds, a limited number of which may be outside acceptance windows.

D The result reported is from a dilution of the sample due to levels of target compounds found

* Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.

ND NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)

RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

LOQ LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.

LOD LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.

MDL METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.

Reported to This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.

NR Not reported

RPD Relative Percent Difference

Wet The data has been reported on an as-received (wet weight) basis

Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.

For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



YORK

ANALYTICAL LABORATORIES, INC.

120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record - AIR

Page 1 of 1

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 15J1072

| | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|---|--|---|--|--|--|
| YOUR Information | | Report To: | | Invoice To: | | YOUR Project ID | | Turn-Around Time | | Report Type/Deliverables | | | |
| Company: <u>STV inc.</u> | | Company: <u>Same</u> | | Company: <u>Same</u> | | IMmaculate Conception | | RUSH - Same Day <input type="checkbox"/> | | Summary Report | | | |
| Address: <u>229 Park Ave</u> | | Address: <u>Same</u> | | Address: <u>Same</u> | | 3017079/0088 | | RUSH - Next Day <input type="checkbox"/> | | Summary w/ QA Summary <input checked="" type="checkbox"/> | | | |
| S. <u>NY NY 10003</u> | | | | | | | | RUSH - Two Day <input type="checkbox"/> | | CT RCP Package | | | |
| Phone No. <u>347-880-5082</u> | | Phone No. <u>Same</u> | | Phone No. <u>Same</u> | | Purchase Order No. | | RUSH - Three Day <input type="checkbox"/> | | NY ASP A Package | | | |
| Contact Person: <u>Andrew Au</u> | | Attention: <u>Andrew.Au@STVINC.COM</u> | | Attention: <u>Andrew Au</u> | | | | RUSH - Four Day <input type="checkbox"/> | | NY ASP B/CLP Pkg | | | |
| E-Mail Address: <u>Andrew.Au@STVINC.COM</u> | | E-Mail Address: <u>Peter.Holseth@STVINC.COM</u> | | E-Mail Address: <u>Andrew.Au@STVINC.COM</u> | | Samples from: CT <input type="checkbox"/> NY <input checked="" type="checkbox"/> NJ <input type="checkbox"/> | | Standard(5-7 Days) <input checked="" type="checkbox"/> | | NJDEP Reduced | | | |
| <p><i>Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.</i></p> <p><i>Andrew Au</i></p> <p>Samples Collected/Authorized By (Signature)</p> <p><u>Andrew Au</u></p> <p>Name (printed)</p> | | <p>Air Matrix Codes</p> <p>AI - INDOOR Ambient Air</p> <p>AO - OUTDOOR Amb. Air</p> <p>AE - Vapor Extraction Well/ Process Gas/Effluent</p> <p>AS - SOIL Vapor/Sub-Slab</p> | | <p>TO15 Volatiles and Other Gas Analyses</p> <p>EPA TO-15 List</p> <p>NYSDEC VI list</p> <p>NYSDEC STARS List</p> <p>NJDEP Target List</p> <p>CTDEP RCP Target List</p> | | | | <p>Detection Limits Required</p> <p>< 1 ug/m³ <input checked="" type="checkbox"/></p> <p>NYSDEC VI Limits _____</p> <p>(VI = vapor intrusion)</p> <p>NJDEP low level _____</p> <p>Routine Survey _____</p> <p>Other <u>→</u></p> | | | | <p>Standard Excel <input checked="" type="checkbox"/></p> <p>Regulatory Comparison Excel _____</p> | |
| | | | | <p>EPA TO-14A List</p> <p>Tentatively Identified Compounds</p> <p>Air VPH</p> <p>Helium</p> <p>Methane</p> <p>OTHER</p> | | | | <p>Special Instructions</p> <p>0.25 ug/m³ for VC, TCE, and Carbon Tetrachloride.</p> <p>≤ 1 ug/m³ for all other compounds.</p> | | | | | |

| Sample Identification | Date Sampled | AIR Matrix | Canister Vacuum Before Sampling (in. Hg) | Canister Vacuum After Sampling (in. Hg) | Choose Analyses Needed from the Menu Above and Enter Below | Sampling Media |
|---|--------------|------------|---|---|--|---|
| Yard | 10/27/15 | AO | 30+ 0842 | 10 1643 | 26 VOC's by Method TO-15 | 6 Liter Summa canister <u>16694</u> Tedlar Bag <u>FC: 7360</u> |
| Multi-Purpose Rm | 10/27/15 | AI | 30+ 0848 | 11 1649 | ↓ | 6 Liter Summa canister <u>Y62</u> Tedlar Bag <u>FC: 7420</u> |
| Lounge | 10/27/15 | AI | 30+ 08486 | 8 1647 | | 6 Liter Summa canister <u>15523</u> Tedlar Bag <u>FC: 7363</u> |
| | | | | | | 6 Liter Summa canister _____ Tedlar Bag _____ |
| <p>Please analyze for Benzene, Carbon Tetrachloride, Chlorobenzene, Chloroethane, Chloromethane, 1-2-Dichlorobenzene, 1-3-Dichlorobenzene, 1-1-Dichloroethane, 1-2-Dichloroethane, 1-1-Dichloroethene, 1,1-1,2-Dichloroethene, Trans-1,2-Dichloroethene, 1,2-Dichloropropane, Ethyl benzene, Methyl tert-butyl ether, Methylone chloride, Naphthalene, Tetrachloroethane (PCE), Toluene, 1-1-1-Trichloroethane, Trichloroethene (TCE), 1-2-4-</p> | | | | | | |
| <p>Comments: Tri-methyl benzene, 1-3-5-Tri-methyl benzene, Vinyl Chloride, M. P-xylene, and o-xylene. (26 VOC's by Method TO-15)</p> | | | <p>Andrew Au 10/27/15 11:28</p> <p>Samples Relinquished By Date/Time</p> <p>Peter Holseth 10/28/15</p> <p>Samples Relinquished By Date/Time</p> | | <p>10/28/15</p> <p>Samples Received By Date/Time</p> <p>TC Phil 10/28/15 11:28</p> <p>Samples Received in LAB by Date/Time</p> | |

Page 20 of 20

10/28

**INDOOR AIR QUALITY SURVEY
IMMACULATE CONCEPTION SCHOOL
104 GORDON STREET
STATEN ISLAND, NEW YORK 10304**

**APPENDIX C
CURRENT LABORATORY CERTIFICATIONS**

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2016
Issued April 01, 2015

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. ROBERT Q. BRADLEY
YORK ANALYTICAL LABORATORIES INC
120 RESEARCH DRIVE
STRATFORD, CT 06615

NY Lab Id No: 10854

is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards (2003) for the category
ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved analytes are listed below:

Acrylates

Methyl methacrylate EPA TO-15

Chlorinated Hydrocarbons

1,2,4-Trichlorobenzene EPA TO-14A

EPA TO-15

Hexachlorobutadiene EPA TO-14A

EPA TO-15

Hexachloroethane EPA TO-14A

EPA TO-15

Polynuclear Aromatics

Naphthalene EPA TO-14A

EPA TO-15

Purgeable Aromatics

1,2,4-Trimethylbenzene EPA TO-14A

EPA TO-15

1,2-Dichlorobenzene EPA TO-14A

EPA TO-15

1,3,5-Trimethylbenzene EPA TO-14A

EPA TO-15

1,3-Dichlorobenzene EPA TO-14A

EPA TO-15

1,4-Dichlorobenzene EPA TO-14A

EPA TO-15

Benzene EPA TO-14A

EPA TO-15

Purgeable Aromatics

Chlorobenzene EPA TO-14A

EPA TO-15

Ethyl benzene EPA TO-14A

EPA TO-15

Isopropylbenzene EPA TO-15

Styrene EPA TO-14A

EPA TO-15

Toluene EPA TO-14A

EPA TO-15

Total Xylenes EPA TO-14A

EPA TO-15

Purgeable Halocarbons

1,1,1-Trichloroethane EPA TO-14A

EPA TO-15

1,1,2,2-Tetrachloroethane EPA TO-14A

EPA TO-15

1,1,2-Trichloro-1,2,2-Trifluoroethane EPA TO-14A

EPA TO-15

1,1,2-Trichloroethane EPA TO-14A

EPA TO-15

1,1-Dichloroethane EPA TO-14A

EPA TO-15

1,1-Dichloroethene EPA TO-14A

EPA TO-15

1,2-Dibromoethane EPA TO-14A

Serial No.: 52150

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify the laboratory's accreditation status.



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ENVIRONMENTAL ANALYSES AIR AND EMISSIONS*

All approved analytes are listed below:

Purgeable Halocarbons

| | |
|-------------------------|-------------------------|
| 1,2-Dibromoethane | EPA TO-15 |
| 1,2-Dichloroethane | EPA TO-14A EPA TO-15 |
| 1,2-Dichloropropane | EPA TO-14A EPA TO-15 |
| Bromodichloromethane | EPA TO-14A EPA TO-15 |
| Bromoform | EPA TO-15 |
| Bromomethane | EPA TO-14A EPA TO-15 |
| Carbon tetrachloride | EPA TO-14A EPA TO-15 |
| Chloroethane | EPA TO-14A EPA TO-15 |
| Chloroform | EPA TO-14A EPA TO-15 |
| Chloromethane | EPA TO-14A EPA TO-15 |
| cis-1,2-Dichloroethene | EPA TO-14A EPA TO-15 |
| cis-1,3-Dichloropropene | EPA TO-14A EPA TO-15 |
| Dibromochloromethane | EPA TO-15 |
| Dichlorodifluoromethane | EPA TO-14A EPA TO-15 |
| Methylene chloride | EPA TO-14A |

Purgeable Halocarbons

| | |
|---------------------------|-------------------------|
| Methylene chloride | EPA TO-15 |
| Tetrachloroethene | EPA TO-14A EPA TO-15 |
| trans-1,2-Dichloroethene | EPA TO-14A EPA TO-15 |
| trans-1,3-Dichloropropene | EPA TO-14A EPA TO-15 |
| Trichloroethene | EPA TO-14A EPA TO-15 |
| Trichlorofluoromethane | EPA TO-14A EPA TO-15 |
| Vinyl bromide | EPA TO-15 |
| Vinyl chloride | EPA TO-14A EPA TO-15 |

Volatile Chlorinated Organics

| | |
|-----------------|-----------|
| Benzyl chloride | EPA TO-15 |
|-----------------|-----------|

Volatile Organics

| | |
|---------------------------------|-------------------------|
| 1,2-Dichlorotetrafluoroethane | EPA TO-14A EPA TO-15 |
| 1,3-Butadiene | EPA TO-14A EPA TO-15 |
| 1,4-Dioxane | EPA TO-15 |
| 2-Butanone (Methylethyl ketone) | EPA TO-15 |
| 4-Methyl-2-Pentanone | EPA TO-15 |
| Acetone | EPA TO-15 |

Serial No.: 52150

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National Environmental Laboratory Accreditation Conference Standards (2003) for the category
ENVIRONMENTAL ANALYSES AIR AND EMISSIONS*

All approved analytes are listed below:

Volatile Organics

| | |
|-------------------------|-----------|
| Carbon Disulfide | EPA TO-15 |
| Cyclohexane | EPA TO-15 |
| Hexane | EPA TO-15 |
| Isopropanol | EPA TO-15 |
| Methyl tert-butyl ether | EPA TO-15 |
| n-Heptane | EPA TO-15 |
| Vinyl acetate | EPA TO-15 |

Serial No.: 52150

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