New York State Department of Environmental Conservation
625 Broadway • Albany, NY 12233

Immediate Investigation Work Assignment Summary Report

275 Franklin Street Site
Buffalo, New York

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Work Assignment # D-004439-3

December 2009

Report Prepared By:

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0266-377

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1. Introduction

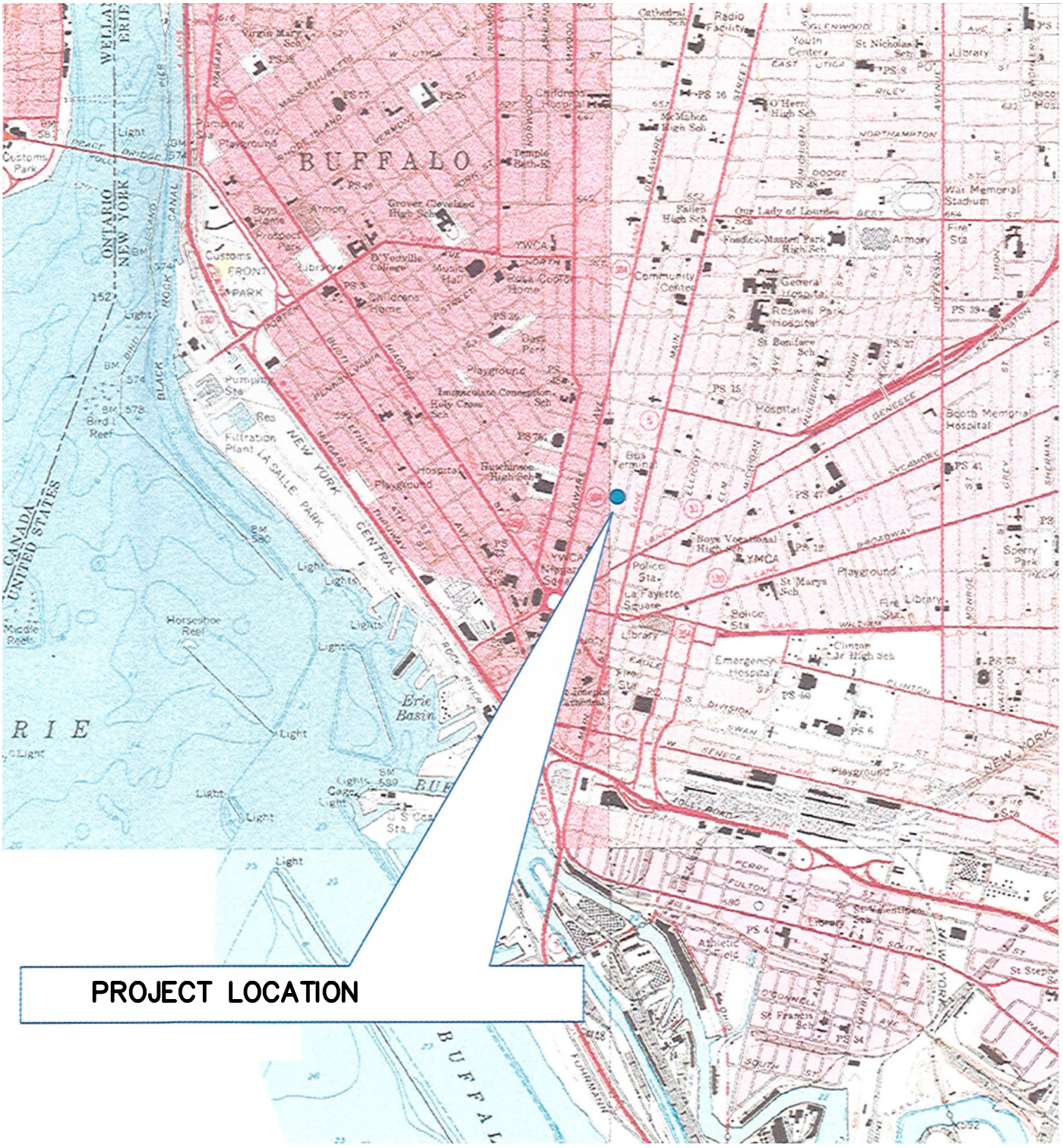
The New York State Department of Environmental Conservation (NYSDEC) contracted Malcolm Pirnie, Inc., (Malcolm Pirnie) to perform environmental investigations of properties adjacent to the 275 Franklin Street Brownfield Cleanup Program (BCP) Site. The investigations were performed under an Immediate Investigation Work Assignment (IIWA) number D-004439-3. The location of the BCP Site as well as the surrounding properties investigated under this IIWA, are presented in Figure 1-1.

1.1. Purpose

The purpose of the off-site investigation was to evaluate the extent of chlorinated volatile organic compounds (CVOCs) in soil and groundwater of the off-site properties of interest. The investigation also provided useful data for evaluation of vapor intrusion of CVOCs inside occupied structures on these off-Site properties.

1.2. Site Background

The BCP Site at 275 Franklin Street, Buffalo, New York was investigated by a volunteer/site developer to determine if former Site uses have impacted on-Site soil and groundwater and to what degree contamination may adversely affect human health and the environment. The BCP Site is currently a paved surface parking lot but was formerly used as a dry cleaning establishment from approximately 1951 through the early 2000s. The BCP investigation identified soil and groundwater contaminated with tetrachloroethene (PCE). PCE is commonly used in the dry cleaning process. PCE was identified in on-site groundwater at concentrations up to137,000 ug/l. As part of the investigation of the BCP Site, CVOC contamination was confirmed on an adjacent property as well (267 Franklin Street) at concentrations as high as18,000 ug/l. The off-site migration of CVOCs, combined with the presence of occupied structures, including a residential apartment structure, on the affected adjoining properties prompted the NYSDEC to commission further investigation of properties adjacent to the BCP Site through this IIWA.



REF: 0266F001

MALCOLM PIRNIE	NYSDEC IIWA BUFFALO, NEW YORK 275 FRANKLIN STREET SITE WA #D004439-3	SITE LOCATION MAP 275 FRANKLIN STREET IIWA SUMMARY REPORT NOT TO SCALE	MALCOLM PIRNIE, INC. SEPTEMBER 2009 FIGURE 1-1

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2. Description of Field Activities

2.1. General

Field activities performed under the IIWA were completed between May, 2008 and May 2009. The schedule for implementation of the IIWA was significantly affected by litigation between the BCP volunteer and the NYSDEC and by extended access negotiations between one of the off-site property owners and the NYSDEC. Work was completed in accordance with the NYSDEC-approved Field Activities Plan (Malcolm Pirnie, April 2008).

Off-site Properties on which the IIWA work was performed include:

- 267 Franklin Street (a 14-unit apartment building)
- 265 Franklin Street (Insty-Prints building and alley)
- 259 Delaware Ave (WGRZ TV rear parking lot)

Figure 2-1 shows the locations of the BCP site and adjacent properties investigated under the IIWA. The investigation included elements required for soil vapor intrusion and indoor air sampling as well as soil boring, monitoring well installation, and groundwater sampling programs. Work performed under the IIWA Work Assignment included:

- Collection and analyses of indoor air and soil vapor samples;
- Installation of a sub-slab vapor mitigation system;
- Advancement of four shallow and four deep soil borings;
- Collection and analysis of eight subsurface soil samples; and
- Installation of four groundwater monitoring well couplets comprised of four shallow and four deep overburden groundwater monitoring wells;
- Collection and analysis of eight groundwater samples.
- Survey measurement and mapping of the work area and sample locations.

Figure 2-2 provides locations of borehole/well locations drilled and sampled as part of the IIWA. Approximate locations of collected soil vapor and indoor air samples are shown on field sketches provided in Appendix A. Discussions of each of the investigative activities performed are presented below.

REF: 0266F002

MALCOLM PIRNIE	NYSDEC IIWA BUFFALO, NEW YORK 275 FRANKLIN STREET SITE WA #D004439-3	SITE PLAN 275 FRANKLIN STREET IIWA SUMMARY REPORT NOT TO SCALE	MALCOLM PIRNIE, INC. SEPTEMBER 2009 FIGURE 2-1

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NYSDEC IIWA
BUFFALO, NEW YORK
275 FRANKLIN STREET SITE
WA #D004439–3

BORING/MONITORING WELL
LOCATION MAP
SCALE: 1"=50'

MALCOLM PIRNIE, INC.
SEPTEMBER 2009
FIGURE 2–2

2.2. Air

2.2.1. Soil Vapor and Indoor Air Sampling

Adjacent and downgradient of the BCP Site is an occupied 14-unit apartment building and further downgradient and adjacent to the apartment building is an active print shop business (Insti-Prints). Because of data collected as part of the BCP investigation that indicated PCE in the groundwater on the 267 Franklin property, the NYSDOH collected indoor air screening samples inside the apartment building. These samples tested positive for PCE and prompted the NYSDEC to direct Malcolm Pirnie to perform more quantitative sampling of indoor air and to design and install a sub-slab depressurization system in the apartment building.

Malcolm Pirnie performed air sampling on four occasions as part of the IIWA as follows:

Air Sampling Event #1
On May 29, 2008 four air samples were collected at 265 Franklin Street (Insty-Prints). The samples were designated with the project name and location as follows:

- 275 Franklin FA: Placed in a central location on the first floor of the print shop.
- 275 Franklin CS: Placed on the crawlspace floor beneath the access hatch in the main floor.
- 275 Franklin DUP: Placed on the crawlspace floor near the CS sample.
- 275 Franklin OA: Placed outside in the street in front of 265 Franklin St.

Air Sampling Event #2
On October 28 and 29, 2008 (prior to the installation of a sub-slab depressurization system) five air samples were collected at 267 Franklin Street (apartment building). Three of the five samples were of indoor air on the basement apartment level, one was of outdoor air for background conditions, and one was of sub-slab soil vapor beneath the boiler room. Samples were designated as follows:

- 267 Franklin SS: A sub-slab air sample from beneath the concrete floor of the boiler room.
- 267 Franklin BA1: A basement air sample from the boiler room.
- 267 Franklin BA2: A basement air sample from the bedroom of occupied apartment B2.
- 267 Franklin BA3: A basement air sample from the kitchen of vacant apartment B1.
- 267 Franklin OA: An ambient air sample from outside of the west (upwind) side of the building.

Air Sampling Event #3

On February 23, 2009 (after the installation and activation of a sub-slab depressurization system) 267 Franklin Street (apartment building) was re-sampled at the same five locations as sampled during air sampling event #2. See Section 2.2.2 for information pertaining to the sub-slab depressurization system.

Air Sampling Event #4

On September 15, 2009 267 Franklin Street (apartment building) was re-sampled at the same three indoor air locations as sampled during air sampling events #2 and 3. The sub-slab soil vapor sample location within the boiler room was not re-sampled per the request of the Department.

Columbia Analytical (event #,1, 2, and 4) and Con-Test Analytical (event #3) analyzed indoor air and ambient air samples for VOCs using modified EPA Method TO-15 with a gas chromatograph/mass spectrometer (GC/MS) in full-scan mode. Con-Test Analytical was used to analyze the event #3 samples because Columbia Analytical did not have sufficient capacity to accept samples at the time of the event.

Air samples were collected using a 6-liter Summa canister sampling train, which consists of a stainless steel Summa canister, flow controller, particulate filter, pressure gage, and fittings. Canisters were evacuated and certified as analyte-free by the analytical laboratories (Columbia Analytical Services Inc. and Con-Test Analytical Laboratory) prior to use in the field. Flow regulators supplied by the analytical laboratories were used to allow for continuous sampling over the two-hour period (event #1) and 24-hour period (events #2, 3, and 4). Each flow regulator was equipped with a filter to prevent particulate matter from entering the canister.

An interim air data report was submitted to NYSDEC on December 24, 2008, after completion of events 1 and 2. The interim air data report contained the following items:

- Air - Chain of Custody Records
- Analytical Data Summary Tables and Laboratory Form 1s
- Indoor Air Questionnaires and Building Inventories
- Photo Log
- Full Analytical Data Packages

The interim report is provided in Appendix A.

2.2.2. Design and Installation of Vapor Mitigation System

A contractor specializing in vapor mitigation systems (Mitigation Tech) was hired by Malcolm Pirnie to install a sub-slab vapor depressurization system in the apartment building at 267 Franklin Street. The objective of the system was to control the intrusion

of VOCs into the building by creating a vacuum below the building's basement floor slab. The contractor performed communication testing throughout the basement level of the building to support the design of the system. Based on the results of the design testing and building logistics, two separate systems were installed in the basement floor of the building, one on the south side and one on the north side. Each system was made up of a network of 3" and 4" diameter PVC piping which provided multiple suction points below the concrete basement floor. Each system provides continuous vacuum in the sub-slab by the operation of in-line fans mounted at the end of the system above the roof line. A schematic sketch of the layout of the two systems is provided in Appendix A.

System 1 has five suction points located as follows:

- In the extreme NW corner of the living room of Apartment B2
- In the western utility room (electric meters) under the basement stairs
- In the closet located at the western end of the main hall in apartment B1
- In the closet between the living room and kitchen of apartment #B2
- In the main basement hallway between apartments B1 and B2 (along the north wall of the hallway)

A monometer was installed in System 1 to provide evidence and measurement of system vacuum. This monometer is located on the vertical riser located in the utility room.

System 2 has three suction points located as follows:

- In the closet of the rear bedroom of apartment B1.
- In the NW corner of the boiler room
- In the NE corner of the boiler room

A monometer was also installed in System 2 and is located on the vertical riser located in the boiler room.

Analytical results of air samples collected as part of the IIWA are presented and discussed in Section 5.2.

2.3. Soil Boring Program

A drilling and sampling program designed to characterize the stratigraphy and chemical contamination of the Site overburden soil/fill materials and groundwater began on May 11, 2009 and included the drilling of eight soil borings and installation of a groundwater monitoring well in each boring. The locations of the wells are shown on the Figure 2-2. Well installation and sampling activities were completed in accordance with the methods outlined in the NYSDEC-approved Field Activities Plan. Four monitoring well couplets

were installed during this drilling program and included four shallow (S) overburden wells and four deep (D) overburden wells. The well couplets were designated MW-21S/D, MW-22S/D, MW-23S/D and MW-24S/D.

At each well couplet location, the deeper boring was drilled and sampled prior to the shallow boring. Also, as a safety precaution, the uppermost five feet of each borehole was advanced manually using a shovel to avoid damage to potential underground utilities.

Borings were then drilled through unconsolidated overburden materials to refusal at the top of bedrock using 4¼-inch inside diameter (ID) hollow stem augers. At each deep boring location, two-inch inside diameter outside diameter (OD) split-spoon samples were continuously collected and screened with a photo-ionization detector (PID) to obtain a qualitative estimate of total volatile organic vapors. The on-site Malcolm Pirnie representative recorded pertinent information for each boring on Field Test Boring Logs Information recorded includes: PID measurements, physical characteristics of the soil using a modified Burmeister soil classification, depth to saturated conditions, and other observations. Drill cuttings and discarded soil samples were collected during borehole advancement and containerized in steel drums for disposal at a permitted solid waste facility. As shown on the invoiced waste manifest ticket attached in Appendix C, the containerized soil materials were transported to the Modern landfill site in Model City, NY during July 2009 by OP-Tech Environmental. Composite Test Boring/Well Construction Logs are provided in Appendix B. Field activities were documented on daily observation reports provided in Appendix C.

Two soil samples were collected at each deep boring location based on screening criteria that included visual, olfactory and PID measurements. Soil samples were generally collected across the depth interval that exhibited the highest PID measurement and at the top of a dense glacial till unit contacting the underlying bedrock. The samples were collected in pre-cleaned analytical sample jars and submitted to an ELAP certified analytical laboratory for USEPA Method 8260 volatile organic compound (VOC) analyses. A tabulated borehole summary is presented on Table 2-1 with soil samples collected during the investigation detailed on summary Table 2-2.

2.3.1. Monitoring Well Installation

Eight groundwater monitoring wells, four shallow and four deep, were installed in overburden materials during the investigation to facilitate the collection of groundwater samples.

2.3.1.1. Shallow Overburden Well Installation

Subsequent to advancement of each of the shallow boreholes, shallow overburden wells were installed at the borehole locations designated MW-21S, MW-22S, MW-23S and

Table 2-1
Borehole Summary
275 Franklin Street Site
Buffalo, NY

Borehole / Monitoring Well Designation	Date Drilled	Fill Thickness (in feet)	Gravel Thickness (in feet)	Till Thickness (in feet)	Depth to top of Bedrock	Depth to Groundwater (BTOR) [1]	Maximum PID Measurement / Comments
MW-OS-21D	5/12/2009	1.0	43.0	5.8	49.8'	10.5	PID = 2.0 ppm @ 6 - 8' bgs
MW-OS-21S	5/13/2009	1.0	NA	NA	NA	9.95'	Boring terminated in sand/gravel unit
MW-OS-22D	5/14/2009	1.0	45.0	4.0	50'	10.4'	PID = 25 ppm @ 16 - 18' bgs
MW-OS-22S	5/15/2009	1.0	NA	NA	NA	10.1'	Boring terminated in sand/gravel unit
MW-OS-23D	5/18/2009	6.0	38.0	5.4	49.4'	11.8'	PID = 4.4 ppm @ 10 - 12' bgs
MW-OS-23S	5/19/2009	6.0	NA	NA	NA	11.1'	Boring terminated in sand/gravel unit
MW-OS-24D	5/20/2009	1.0	45.0	3.8	49.8'	11.1'	PID = 10.4 ppm @ 10 - 12' bgs
MW-OS-24S	5/21/2009	1.0	NA	NA	NA	10.5'	Boring terminated in sand/gravel unit

Notes:

BTOR [1] = Below Top of well Riser on May 26 and 27, 2009

NR = Undetermined fill thickness due to no sample recovery for 0-4' interval

Prepared by jph Date:06/24/09

Checked by jjr Date:08/13/09

Table 2-2
Summary of Collected Samples
275 Franklin Street Site
Buffalo, NY

Sample ID	Date Collected	Sample Type	Sample Depth (FT)	Analysis
Soil C915208-OS-SB				
MW - 21D	5/12/2009	Subsurface Soil	18 - 20'	VOCs
MW - 21D	5/12/2009	Subsurface Soil	44 - 46'	VOCs
MW - 22D	5/14/2009	Subsurface Soil	18 - 20'	VOCs
MW - 22D	5/15/2009	Subsurface Soil	44 - 46'	VOCs
MW - 23D	5/18/2009	Subsurface Soil	18 - 20'	VOCs
MW - 23D	5/18/2009	Subsurface Soil	44 - 46'	VOCs
MW - 24D	5/20/2009	Subsurface Soil	10 - 12'	VOCs
MW - 24D	5/20/2009	Subsurface Soil	44 - 46'	VOCs
Groundwater C915208-OS-GW			Screened Interval	
MW - 21S	5/26/2009	Groundwater	13.5 - 23.5'	VOCs
MW - 21D	5/26/2009	Groundwater	38.5 - 48.5'	VOCs
MW - 22S	5/26/2009	Groundwater	7.7 - 17.7'	VOCs
MW - 22D	5/26/2009	Groundwater	38.0 - 48.0'	VOCs
MW - 23S	5/27/2009	Groundwater	9.0 - 19.0'	VOCs
MW - 23D	5/27/2009	Groundwater	38.3 - 48.3'	VOCs
MW - 24S	5/27/2009	Groundwater	9.0 - 19.0'	VOCs
MW - 24D	5/27/2009	Groundwater	38.5 - 48.5'	VOCs

Notes:

GW = Groundwater
MW = Monitoring well
VOCs = Volatile Organic Compounds

Prepared By JPH Date: 06/24/09
Checked By JJR Date: 08/13/09

MW-24S. Based on water table conditions identified during advancement of the deep borehole, the shallow well screens were generally installed at a depth of nine to 19 feet bgs to straddle saturated conditions within the shallow sand and gravel unit. All monitoring wells were constructed of 2-inch ID, flush joint, Schedule 40 PVC, with 0.010-inch slotted screen 10 feet in length. A #2 silica sand filter pack was placed around the well screen and approximately 2 to 2.5 feet above the top of the screened interval. A two-foot thick bentonite chip seal was placed above the sand pack and hydrated to seal the well. The remainder of the boring annulus was filled with cement/bentonite grout. Monitoring wells were completed at the surface with 9-inch diameter flush-mount roadboxes set in a flush concrete pad. All wells were locked with a keyed-alike padlock.

2.3.1.2. Deep Overburden Well Installation

Four deep overburden wells were installed to monitor deep groundwater conditions immediately above the overburden/bedrock interface at the borehole locations designated MW-21D, MW-22D, MW-23D and MW-24D. Based on the relatively flat topography and depth to bedrock, the deep well screens were generally installed from approximately 38 to 48 feet bgs to monitor groundwater quality and potential head in the deep groundwater regime.

Following completion of deep borehole advancement, monitoring wells were installed following similar procedures described for shallow wells. Ten-foot screens with 0.010-inch slot size were installed in each well with a primary sandpack consisting of #2 silica sand placed no more than 2.3 feet above the top of the screened interval. A two-foot thick bentonite seal was placed above the sand pack and hydrated prior to filling the remainder of the boring annulus with cement/bentonite grout. Subsequent to filling the borehole annulus with grout, a 9-inch diameter flush-mount roadbox and keyed-alike padlock completed the well installation.

2.3.2. Monitoring Well Development

The newly installed monitoring wells were developed no sooner than 48 hours after well installation by purging with a combination of a dedicated disposable bailer and a submersible pump. Specific conductivity, temperature, dissolved oxygen, pH/Eh and turbidity were frequently measured throughout the development process in accordance with the approved Investigation Work Plan. Development was continued until a minimum of 10 well volumes had been purged, or until the measured water quality parameters had stabilized.

Well Development/Purging Logs are provided in Appendix D.

2.4. Groundwater Sampling Program

Groundwater samples were collected from each of the eight newly installed monitoring wells. Prior to sampling at monitoring well locations, a water level indicator was used to

measure the depth to water. Malcolm Pirnie field personnel purged all monitoring wells using a submersible pump or dedicated disposable bailers. As described in the development process, a minimum of 10 well volumes was removed from each location. The parameters of pH, temperature, turbidity, and specific conductance were periodically measured and recorded on the Well Development/Purging Logs, included in Appendix D. Dedicated, disposable bailers were used to collect the groundwater samples from each monitoring well.

Groundwater samples were placed on ice and shipped under chain-of-custody to the Malcolm Pirnie-subcontracted laboratory for analysis. Samples were analyzed for TCL VOCs. QA/QC samples (blind duplicates, matrix spikes and matrix spike duplicates) were collected at approximately one per 20 maximum per sample delivery group, at the discretion of the Malcolm Pirnie field representative. One trip blank was submitted with the sample shipment.

Analytical results for the groundwater samples are presented and discussed in Section 5.4. Raw analytical data with the validated Form 1s are provided in Appendix E.

2.5. Site Survey and Mapping

Malcolm Pirnie subcontracted OM Popli Surveying, P.C. to conduct a field survey of the Site. After completing the field tasks, a topographic and planimetric survey of the Site was completed to establish surface and groundwater elevations required to prepare a base map. Locations and elevations of the monitoring wells were determined using Global Positioning System (GPS) survey equipment. Surveyed points were transferred to the site drawings and elevations converted to units of feet above mean sea level (AMSL).

2.6. Investigation-Derived Waste

Soil cuttings generated from the drilling of soil borings were containerized in new 55-gallon steel drums. Although analytical results indicated no significant contamination in the soil cuttings, because site conditions, (ie. paved surfaces, fully developed) were not conducive to spreading the cuttings back on the ground surface, the drummed soil investigation-derived waste (IDW) was transported to a permitted disposal facility (Modern Landfill of Model City, NY) with NYSDEC assistance and approval. Appendix D contains a copy of the weigh ticket from the landfill for the soil material brought from the Franklin Site to the landfill.

Water IDW, well purge water and decontamination water, was discharged to an on-Site storm sewer with NYSDEC approval.

3. Hydrogeologic Conditions

The geology and hydrogeology of the 275 Franklin Street Site and adjacent properties is described below based on data from previous Site investigations, reference literature, and the most recent information obtained from the soil borings and monitoring wells completed during the IIWA.

Examination of the unconsolidated overburden material at the Site basically identified three stratigraphic units. When present, these units were deposited sequentially (one on top of the other) and are correlative across the entire Site area. The overburden units are described below in descending stratigraphic order (youngest to oldest):

Fill Materials - Fill materials generally consisted of asphalt underlain by an oxidized brown-black, fine grain sand mixed with construction and demolition (C&D) debris. If present, the C&D debris was comprised of red brick, concrete and crushed stone/gravel. Measured fill thickness across the Site ranged from approximately 1 foot at well couplets MW-21, MW-22 and MW-24, to a maximum of 6 feet at location MW-23.

Native Sand – A loose, fine grain reworked brown-gray sand with interbedded trace clay and fine gravel was identified immediately below the fill materials. The composite thickness of the fill/sand unit was 43 to 45' thick.

Undifferentiated Glacial Till - The sand grades downward to a gradational contact with a dense, silty-sand till with variable percentages of fine to coarse sub-angular gravel. The till averaged less than three feet in thickness and contacts the underlying bedrock strata.

The natural overburden sequence is representative of sediments deposited in a shallow glacio-lacustrine environment.

Limestone bedrock of the Onondaga Formation was encountered beneath the overburden material at each deep monitoring well location.

Unconfined groundwater conditions were encountered at the site in the overburden sediments. Based on a synoptic round of water levels measured in the Site monitoring well network, shallow groundwater elevations varied from a maximum 487.6' measured at MW-21S to a minimum 485.98' measured at MW-23S. Water levels measured during July, 2009 are presented on Table 3-1.

Shallow and deep groundwater isopotential maps, shown as Figures 3-1 and 3-2 respectively, indicate that groundwater flows through the Site overburden from the northeast to the southwest toward Lake Erie.

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TABLE 3-1
GROUNDWATER ELEVATIONS
275 FRANKLIN STREET SITE INVESTIGATION
BUFFALO, NEW YORK

Monitoring Well	Ground Elevation [1]	Top of Riser Elevation [1]	May 26 - 27, 2009		July 8, 2009	
			Water Depth Below Top of Riser	Water Elevation	Water Depth Below Measuring Point	Water Elevation
MW - 3	489.38	498.14	--	--	10.67	487.47
MW - 4	499.95	499.58	--	--	11.79	487.79
MW - 5	499.96	499.55	--	--	11.76	487.79
MW - 6	499.03	498.73	--	--	11.23	487.50
PZ - 14	498.27	498.08	--	--	10.47	487.61
New Well Installation						
MW - 21S	497.88	497.36	9.95	487.41	9.76	487.60
MW - 21D	497.90	497.58	10.50	487.08	10.35	487.23
MW - 22S	497.23	496.21	10.10	486.11	9.96	486.25
MW - 22D	497.21	496.92	10.40	486.52	10.18	486.74
MW - 23S	497.46	496.91	11.10	485.81	10.93	485.98
MW - 23D	497.52	497.18	11.80	485.38	11.38	485.80
MW - 24S	497.91	497.32	10.50	486.82	10.31	487.01
MW - 24D	497.94	497.63	11.10	486.53	10.92	486.71

Notes:
(1) Elevations referenced to 500' arbitrary site datum (Benchmark, LLC.)

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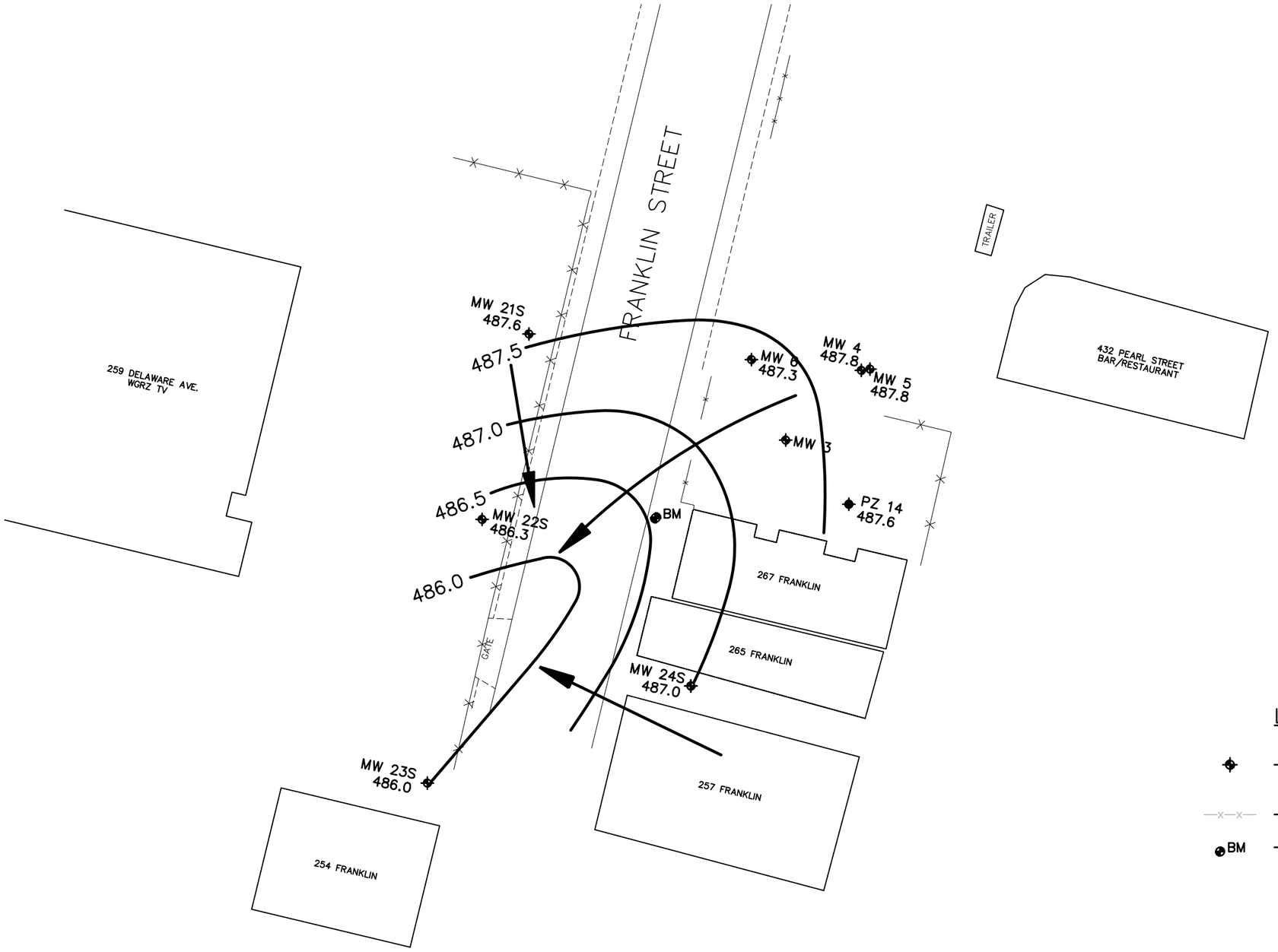

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NYSDEC IIWA
BUFFALO, NEW YORK
275 FRANKLIN STREET SITE
WA #D004439–3

SHALLOW GROUNDWATER ISOPOTENTIAL MAP
WATER LEVELS MEASURED ON JULY 8, 2009
SCALE: 1"=50'

MALCOLM PIRNIE, INC.
SEPTEMBER 2009
FIGURE 3–1

MALCOLM PIRNIE

NYSDEC IIWA
BUFFALO, NEW YORK
275 FRANKLIN STREET SITE
WA #D004439-3

DEEP GROUNDWATER ISOPOTENTIAL MAP
WATER LEVELS MEASURED ON JULY 8, 2009
SCALE: 1"=50'

MALCOLM PIRNIE, INC.
SEPTEMBER 2009
FIGURE 3-2

4. Data Validation/Usability

Environmental samples were collected from soil vapor/indoor air, soil, and groundwater media during the Site investigation. Air samples were analyzed for chlorinated volatile organic compounds (CVOCs) and aromatic analytes by EPA Method TO-15. Soil samples from soil borings and groundwater from monitoring wells were both analyzed for target compound list (TCL) VOCs.

Columbia Analytical Services of Rochester, New York and Con-Test of East Long Meadow, Massachusetts provided analyses for the soil vapor and indoor air samples. Chemtech, of Mountainside, New Jersey analyzed both the soil and groundwater samples.

Data Validation Services of North Creek, New York, a qualified data validator, performed third-party validation of the subsurface soil and groundwater analytical results. The data validation was conducted in accordance with the guidelines established by NYSDEC's Data Usability Summary Review (DUSR) process. The DUSR process was performed to provide a determination of whether the data meets the project specific criteria for data quality and data use. Overall the data was determined to be useable with only minor issues resulting in some results being qualified accordingly.

Laboratory data summary forms were reviewed by the validator for application of validation qualifiers, per the USEPA Region 2 validation SOPs and the USEPA National Functional Guidelines for Data Review, with consideration of the requirements of the project Work Plan. The following criteria were reviewed:

- Laboratory narrative discussions.
- Case narratives
- Custody Documentation
- Holding times
- Surrogate and internal standard recoveries
- Matrix spike recoveries/duplicate correlations
- Field duplicate correlations
- Preparation/calibration blanks
- Matrix spiked blanks/laboratory control samples
- Calibration/CRI/CRA standards
- ICP interference check standards
- ICP serial dilution correlations

- Method compliance
- Sample result verification

Data Review Reports were prepared for sample delivery groups (SDGs) and are provided in Appendix E of this report. The Data Review Reports provide copies of the laboratory analytical results and descriptions of the criteria used to review the laboratory results and supporting quality control documentation. As referenced in the tabulated summary tables in report Section 5 and Form 1s in Appendix E, all data packages were deemed usable by the data validator. The usability of the data, as assessed by the data validator is presented in detail in the following sections. The data summary tables presented in Section 5 and Appendix E of the report use analytical results that have been validated, and when used in conjunction with historical data, provide the basis for Site evaluation. A discussion of validated analytical results for qualified environmental media is presented below.

The Franklin Street environmental sampling program consisted of a total of seven Sample Delivery Groups (SDGs) submitted for air, soil and groundwater media. The SDG prepared for samples collected as part of this IIWA are identified below by analytical provider:

- Chemtech Analytical - A2790, A2837 and A2908
- Con-Test Laboratory – LIMT-23619
- Columbia Analytical Services – P0801622, R2846926, and R0905263

These SDGs reported analytical results for all samples collected during the IIWA including 17 soil vapor/indoor air samples, eight subsurface soil samples, and eight groundwater samples.

Air samples were analyzed for chlorinated solvents and selected BTEX compounds by EPA Method TO-15. The soil and groundwater samples were analyzed for full TCL VOCs by EPA method 8260B. All samples collected and received by the laboratory were within the allowable temperature range for cooler packed samples (between two and six degrees centigrade) established by the NYSDEC-ASP. Established holding times for extraction and analysis were met for all samples. No additional issues were identified regarding sample receipt or holding times for the SDGs.

Volatile Organics – Soil Vapor/ Indoor Air

Data validation resulted in assigning “U”, “UJ”, “NJ”, or “J” flag qualifiers to some of the results indicating that the result is non-detect or a quantitatively estimated value. The qualifiers were assigned to the volatile organic data for the following reason:

- Continuing calibration parameters exhibiting several target compounds whose Relative Response Factor (RRF) values were greater than the accepted laboratory standard for the Relative Standard Deviation (RSD).
- Analyses of QA/QC samples that included method blanks, and internal standards identified the target compounds acetone and methylene chloride.

Volatile Organics – Soil/ Groundwater

Data validation resulted in assigning "UJ", "J" or "R" flag qualifiers to some of the results indicating that the result is non-detect, quantitatively estimated, or rejected value. The qualifiers were assigned to the volatile organic data for one or more of the following reasons:

- Analyses of QA/QC samples that included Blank spikes and internal standards exhibited several target compounds whose recoveries where outside the laboratory derived limits.
- Continuing calibration parameters exhibiting several target compounds whose Relative Response Factor (RRF) values were outside calibration standard responses and therefore indicative of a potential low bias.
- Concentrations of VOC TIC compound (Naphthalene) detected in method blank were similar in concentration detected in soil sample(s) and therefore qualified as "R" rejected.

5. Summary of Analytical Results

5.1. Introduction

The nature and extent of contamination at properties adjacent to the 275 Franklin Street Site was further characterized by collection and analysis of soil vapor, indoor air, subsurface soil, and groundwater samples as part of this investigation. Sample results from the investigation are summarized in Tables 5-1, 5-2, and 5-3.

Analytical results for the investigation were compared to the following standards and criteria:

- Soil vapor and indoor air data were compared to the NYSDOH Air Matrix Guidance Values, October 2006.
- Subsurface soil/fill data were compared to the NYS Soil Cleanup Objectives (SCOs) (Restricted Residential and Commercial land use), December 2006.
- Groundwater data were compared to NYSDEC Class GA groundwater standards and guidance values, (TOGS series 1.1.1, June 1998, and April 2000 addendum).

5.2. Soil Vapor/Indoor Air Results

Four air sampling events were performed for this DEC work assignment. The first event (May 2008), was performed to assess indoor air at the copy/photo business located at 265 Franklin Street. The second (Oct. 2008) third (Feb. 2009), and fourth (Sept. 2009) air sampling events were performed to evaluate air quality in the apartment building located at 267 Franklin Street.

The October,2008 February, and September 2009 air sampling events facilitated the evaluation of air in the basement living spaces prior to and subsequent to installation of a sub-slab vapor mitigation system designed to mitigate VOC contaminant impacts in the building.

Soil vapor and indoor air sampling results are summarized in Table 5-1. Sample locations are depicted on the building schematics provided in Appendix A.

The sub-slab soil vapor samples collected at 267 Franklin, and associated outdoor air sample results were collected to facilitate characterization of an existing baseline condition and a more precise evaluation of air data. Only those VOCs detected in one or more of the samples were tabulated and shown on the summary table.

Table 5-1
Summary of Analytical Results - Soil Vapor Indoor Air
267/275 Franklin Street Site
Buffalo, New York

Compound	NYSDOH Air Matrix Guidance Values ug/m³	SAMPLE LOCATION @ 265 Franklin				SAMPLE LOCATIONS at 267 Franklin												
		OA (5) 5/29/08 µg/m³	FA(6) 5/29/08 µg/m³	CS(7) 5/29/08 µg/m³	FD(8) 5/29/08 µg/m³	OA (5) 10/29/08 µg/m³	OA (5) 02/24/09 µg/m³	OA (5) 09/15/09 µg/m³	SS (9) 10/29/08 µg/m³	SS (9) 02/24/09 µg/m³	BA1 (10) 10/29/08 µg/m³	BA1 (10) 02/24/09 µg/m³	BA1 (10) 09/15/09	BA2 (10) 10/29/08	BA3 (10) 02/24/09 µg/m³	BA2 (10) 09/15/09 µg/m³	BA3 (10) 10/29/08 µg/m³	BA2 (10) 02/24/09 µg/m3	BA3 (10) 09/15/09 µg/m3
Acetone							8.3 UJ			10 UJ		9.5 UJ			13 UJ			14 UJ	
2-Butanone (MEK)							2.2 UJ			2.6 U		2.5 U			2.3 U			2.9 U	
Carbon Disulfide																		0.25	
Carbon Tetrachloride							0.45					0.48			0.47			0.47	
Chloroform															0.36				
Chloromethane							1.1					1			0.96			0.93	
Cyclohexane																		0.97	
1,4-Dichlorobenzene												0.25							
Dichlorodifluoromethane							2.6			2.6		2.6			2.6			2.6	
Ethanol							5.1 J			12 J		35 J			96 J			33 J	
Ethyl Acetate															1.6			1.1	
4-Ethyl Toluene										0.59		0.34							
n-Heptane												0.27			0.19			0.54	
Hexane							0.63					1.7			1.4			4.3	
2-Hexanone							0.23					0.3			0.29			0.34	
Isopropanol							0.61			3.2		1.3			3.4			5.4	
Trichlorofluoromethane							1.5			1.9		1.9			1.9			1.7	
1,1,2 Trichloro-1,2,2-Trifluroethane							0.64					0.68			0.7			0.7	
1,2,4 Trimethylbenzene							0.22			2.3		1.2			0.18			0.49	
1,3,5 Trimethylbenzene										0.63		0.36							
4-Methyl 2 Pentanone																		0.19	
Tetrahydrofuran																		0.36	
Styrene										0.54									
1,1,2,2 Tetrachloroethane										4									
1,2-Dichloroethane																		0.16	
Methylene Chloride			28			0.22 U	1.5			5	1.5 U	3.3			4.2		0.95 U	5.8	
cis-1,2-Dichloroethene	< 100 (4)								0.81 J		20			12	1.4		18	0.72	
Benzene			2.6			0.46	0.58		0.35 J	0.64	1.1 J	0.7		.76 J	0.63	0.75	.55 J	0.65	
Trichloroethene	< 5 (1)		1.1	0.26	0.25	0.21			17	1.9	13	0.26		7	1.4	0.094	11	0.8	
Toluene		1.1	29	0.97	1	1.1	0.86	1.6	42	6.6	4.1 J	1.4	2.5	1.8 J	1.7	8.4	1.6 J	4.3	2.1
Tetrachloroethene	< 100 (2)		93	20	19	.12 J			340	18	1200	19	0.81	670	180	4	900	97	0.76
Ethyl Benzene			16				0.17		2.1 J	1.4		0.23			0.23			0.85	
m,p-Xylene			47	1.1	1.4	.98 J	0.55		1.9	4.6	1.8 J	0.78		.87 J	0.71			3.1	
o-Xylene			110	1.6	1.8	.65 J	0.22		0.95	1.9		0.35 NJ			0.3			0.5	

Notes:

1) NYSDOH Soil Vapor / Indoor Air Matrix 1
2) NYSDOH Soil Vapor / Indoor Air Matrix 2
3) Proposed NYSDOH Soil Vapor / Indoor Air Matrix 1
4) Proposed NYSDOH Soil Vapor / Indoor Air Matrix 2
5) OA = Outdoor Ambient Air
6) FF = First Floor Indoor Air sample collected at 265 Franklin St.
7) CS = Crawl Space Indoor Air collected at 265 Franklin St.
8) Crawl Space Field Duplicate collected at 265 Franklin St.
9) SS = Sub-slab air sample collected at 267 Franklin St.
10) BA 1,2,3 = Basement Air Sample collected at 267 Franklin St. (BA-1 collected from boiler room,) BA-2 then BA-3 collected from occupied apartment B2, BA-3 then BA-2 collected from vacant apartment B1.)

Yellow Highlighted concentrations indicated value(s) that exceed NYSDOH Air Matrix criteria

Blank - Not detected at method detection limit.

Validation Data Qualifiers

U Non-detect, The compound was analyzed for, but was not detected above the level of the associated value
J Estimated, The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ Non-detect, The compound was not detected. The assocoated reporting limit is an estimate and may be innaccurate or imprecise
NJ Estimated, The detection is tentative in identification and estimated in value.

Note:
Blank - Not detected at method detection limit.

TABLE 5-2
SUMMARY OF ANALYTICAL RESULTS - SUBSURFACE SOILS
IIWA Borehole Sampling Program
275 Franklin Street Site
Buffalo, NEW YORK

Sample ID		Soil Cleanup Objectives Restricted Use		MW-21D-18-20	MW-21D-44-46	MW-22D-18-20	MW-22D-44-46	MW-23D-18-20	MW-23D-44-46	MW-24D-10-12	MW-24D-44-46
Sampling Date		Residential	Commercial	5/12/2009	5/12/2009	5/14/2009	5/15/2009	5/18/2009	5/18/2009	5/20/2009	5/20/2009
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND	CAS #										
Tetrachloroethene	127-18-4	19,000	150,000	30 U	30 U	31 U	34 U	18 J	31 UJ	330	30 UJ

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

E (Organics) - Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.

E (Inorganics) - The reported value is estimated because of the presence of interference.

D - The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

NR - Not analyzed

Validation Data Qualifiers

J Estimated, analyte positively identified; associated value approx. conc. of analyte in the sample.

UJ Non-detect, Compound not detected. Assoc. reporting limit an estimate, may be innaccurate or imprecise.

R Rejected The data are unusable, The analyte may or may not be present.

TABLE 5-3
SUMMARY OF ANALYTICAL RESULTS - GROUNDWATER
IIWA Borehole Sampling Program
275 Franklin Street Site
Buffalo, New York

Sample ID		NYS Class "GA" Standards	MW-21S	MW-21D	MW-22S	MW-22D	MW-23S	MW-23D	MW-24S	MW-24D
Sampling Date			5/26/2009	5/26/2009	5/26/2009	5/26/2009	5/26/2009	5/27/2009	5/27/2009	5/27/2009
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
COMPOUND	CAS #									
cis-1,2-Dichloroethene	156-59-2	5	0.35 U	0.35 U	0.35 U	0.35 U	47	0.35 U	5.8	0.35 U
Tetrachloroethene	127-18-4	5	0.27 U	0.27 U	0.27 U	0.27 U	560 D	3.4	180 D	0.27 U
Trichloroethene	79-01-6	5	0.28 U	0.28 U	0.28 U	0.28 U	3.6	0.28 U	35 J	0.28 U

Laboratory Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

E (Organics) - Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.

E (Inorganics) - The reported value is estimated because of the presence of interference.

D - The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

NR - Not analyzed

Sample identified as Field Duplicate collected at sample location MW-24S

Validation Data Qualifiers

Estimated. Analyte positively identified; associated value an approx. concentration of the analyte in the sample.

As shown on Table 5-1, and based on a comparison of field sample analytical results with the NYSDOH Soil Vapor/Indoor Air Matrices, the compounds trichloroethene (TCE), and tetrachloroethene (PCE) were detected at concentrations greater than their respective NYSDOH guidance values. These chlorinated VOCs are the primary focus of this investigation program. The laboratory data package(s) with accompanying narrative and sample results data (Form 1s) for the four air sampling events are provided in Appendix E.

5.2.1. Soil Vapor Sample Results

As shown in Table 5-1, elevated concentrations of both TCE and PCE were detected in the sub-slab (SS) sample at 267 Franklin during the October 2008 sampling event. TCE was detected at a concentration of 17 $\mu g/m^3$, in excess of the established DOH guidance criteria of 5 $\mu g/m^3$. Subsequent to installation of the sub-slab depressurization system, the concentration of TCE was 1.9 $\mu g/m^3$.

Similarly, an elevated concentration of PCE was detected during the October event in the sub-slab soil vapor. Initially detected at a concentration of 340 $\mu g/m^3$, PCE exceeded the DOH guidance criteria of 100 $\mu g/m^3$. Subsequent to installation of the depressurization system, the PCE soil vapor concentration was 18 $\mu g/m^3$.

5.2.2. Indoor Air Sample Results

As shown in Table 5-1, elevated concentrations of TCE and PCE were detected in the basement indoor air samples during the October 2008 sampling event. The concentrations of both PCE and TCE in the first three of four indoor air samples (BA1, BA2, and BA3) exceeded the respective guidance values of 5$\mu g/m^3$ and 100 $\mu g/m^3$. TCE concentrations ranged from 7$\mu g/m^3$ in the occupied apartment (BA2), to 11$\mu g/m^3$ in the vacant apartment (BA3), to 13$\mu g/m^3$ in the boiler room (BA1).

PCE concentrations in indoor air samples were 670 $\mu g/m^3$ in the occupied apartment (BA2), to 900 $\mu g/m^3$ in the vacant apartment, and 1,200 $\mu g/m^3$ in the boiler room (BA1)

Subsequent to installation of the vapor mitigation system, measured concentrations of TCE and PCE were significantly reduced. All three indoor air samples show significant reduction in concentrations of PCE and TCE since the installation of the sub-slab vapor mitigation system. Where detected in the September 15, 2009 indoor air samples, TCE and PCE are at concentrations well below the recommended DOH action levels.

Pre- and post system installation sample results indicate that the sub-slab depressurization system appears to have adequately decreased the concentrations of target VOCs (TCE and PCE) in indoor air to levels below NYSDOH guidance concentrations.

Continued monitoring/maintenance of the vapor mitigation system and regular monitoring of the indoor air quality is recommended.

5.3. Subsurface Soil Results

Chemical analyses of eight subsurface soil samples collected at the Site shows only one VOC (PCE) was present. PCE was detected in two of the eight samples at concentrations less than the NYSDEC Restricted Residential and/or Commercial land use soil cleanup objectives.

As shown on summary Table 5-2, an estimated concentration of 18 ug/kg was present in the sample collected from the 18 to 20 feet depth at boring 23D and a concentration of 330 ug/kg was present at the 10 to 12 feet depth at boring 24D.

5.4. Groundwater Sample Results

Groundwater samples were collected from each of the eight, newly installed, groundwater monitoring wells and submitted for VOC analysis.

The laboratory analytical results for groundwater samples are summarized on Table 5-3. Only those parameters for which a concentration greater than the laboratory detection limit were tabulated and compared to the NYS Class "GA" Groundwater Quality Standards (GWQS) and/or guidance values. The data identified concentrations of selected VOCs that exceeded the Class "GA" standards or guidance.

As shown on summary Table 5-3, only three VOCs cis-1,2-dichloroethene (cis1,2-DCE), PCE, and TCE were detected in the groundwater samples at concentrations that exceeded the Class "GA" GWQS of 5 ug/L. Based on the results shown, the greatest VOC concentrations were detected in the groundwater samples collected from shallow monitoring wells MW-23S and MW-24S located along the southernmost perimeter of the properties investigated.

The following observations were made based on a comparison of VOC analytical data to NYSDEC Class "GA" Groundwater Quality Standards:

- PCE exceeded the NYSDEC Class "GA" GWQS of 5 ug/L in the groundwater samples collected at MW-23S and MW-24S. Detected concentrations ranged from 180 ug/L in MW-24S to 560 ug/L in MW-23S. These concentrations were qualified "D" as requiring dilution in the lab due to the original analysis exceeding the instrument calibration range.
- An estimated (J qualified) concentration of 35 ug/L of TCE was detected in the sample collected from well MW-24S. This exceeded the NYSDEC Class "GA" GWQS of 5 ug/L. Only one other sampled well (MW-23S) contained TCE. The TCE concentration in that well was below the Class GA standard of 5 ug/l.
- Elevated concentrations of cis-1, 2 Dichloroethene exceeding the NYSDEC Class "GA" GWQS of 5 ug/L were identified in the groundwater samples collected at MW-

23S and MW-24S. The concentrations ranged from 5.8 ug/L in MW-24S to 47 ug/L in MW-23S.

New York State Department of Environmental Conservation
Immediate Investigation Summary Report

Appendix A

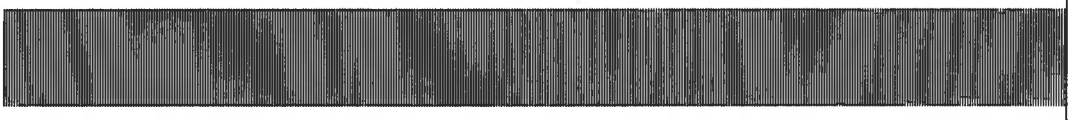
Air Sampling and Sub-Slab Depressurization System Installation

0266-377 / BUF

MALCOLM PIRNIE

New York State Department of Environmental Conservation
Immediate Investigation Summary Report

Air Sampling Event #1



0266-377 / BUF

MALCOLM PIRNIE

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 Dwight Symonds Date/Time Prepared 5/29/08 11am

Preparer's Affiliation Malcolm Pirnie Phone No. 585-727-3710

Purpose of Investigation Air Sampling

1. OCCUPANT:

Interviewed: Y / N

Last Name: Metz First Name: Dave

Address: 265 Franklin st

County: _____

Home Phone: _____ Office Phone: 716-853-6483

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ✓)

Interviewed: Y / N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

(Residential) School (Commercial/Multi-use)
Industrial Church Other: _____

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

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

If multiple units, how many? 3 first floor - print shop
second flor - storage/office
Third flaw - Appt.

If the property is commercial, type?

Business Type(s) _____

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

Other characteristics:

Number of floors 3 Building age Early 1900's

Is the building insulated? (Y) / N How air tight? Tight / Average / Not Tight

partially - Back area insulated / New Doors
approx 50% bldg insulated

4. AIRFLOW

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

Airflow between floors

1st & second floor - some connection
2nd & third floor - some connection

Airflow near source

Outdoor air infiltration

front door / Back Door

Infiltration into air ducts

Taped & sealed / fairly new - photo taken

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

Backhaves is Block

a. Above grade construction:	wood frame	concrete	stone	brick
b. Basement type:	full	crawlspace	slab	other _____
c. Basement floor:	concrete	dirt	stone	other _____
d. Basement floor:	uncovered	covered	covered with _____	
e. Concrete floor:	unsealed	sealed	sealed with _____	
f. Foundation walls:	poured	Back Room block	Brick stone	other _____
g. Foundation walls:	unsealed	sealed	sealed with Thick Brick 5 course 18"-20" Thick	
h. The basement is:	wet	damp	dry	moldy
i. ~~The basement~~ is:	finished	unfinished	partially finished	
j. Sump present?	Y / N			
k. Water in sump?	Y / N / not applicable			

Basement/Lowest level depth below grade: 4 (feet)

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)

1st & Part 2nd floor roof top unit

2nd & 3rd - Gas furnace

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

The primary type of fuel used is:

Natural Gas	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Natural Gas (2 new Hot water tanks)

Boiler/furnace located in: Basement Outdoors (roof unit) Main Floor Other _____

2nd floor furnace

Air conditioning: - Both heating units -

(Central Air) Window units Open Windows None

4

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.

Taped Joints - Tight Joints photos taken

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom (Almost Never)

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	
1st Floor	Print shop / offices / bathrooms / Breakroom
2nd Floor	storage / office
3rd Floor	Appt
4th Floor	

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? N/A

g. Is there smoking in the building? Y / (N) How frequently?_____

h. Have cleaning products been used recently? (Y) / N When & Type? Daily (Blanket wash)

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? N/A

n. Is there a bathroom exhaust fan? (Y) N If yes, where vented? vented to 3' space in Ceiling - 2nd floor

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: Ink / Toners / Cleaners

Do any of the building occupants use solvents at work? (Y) N - Blanket wash
(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? Blanket wash

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: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

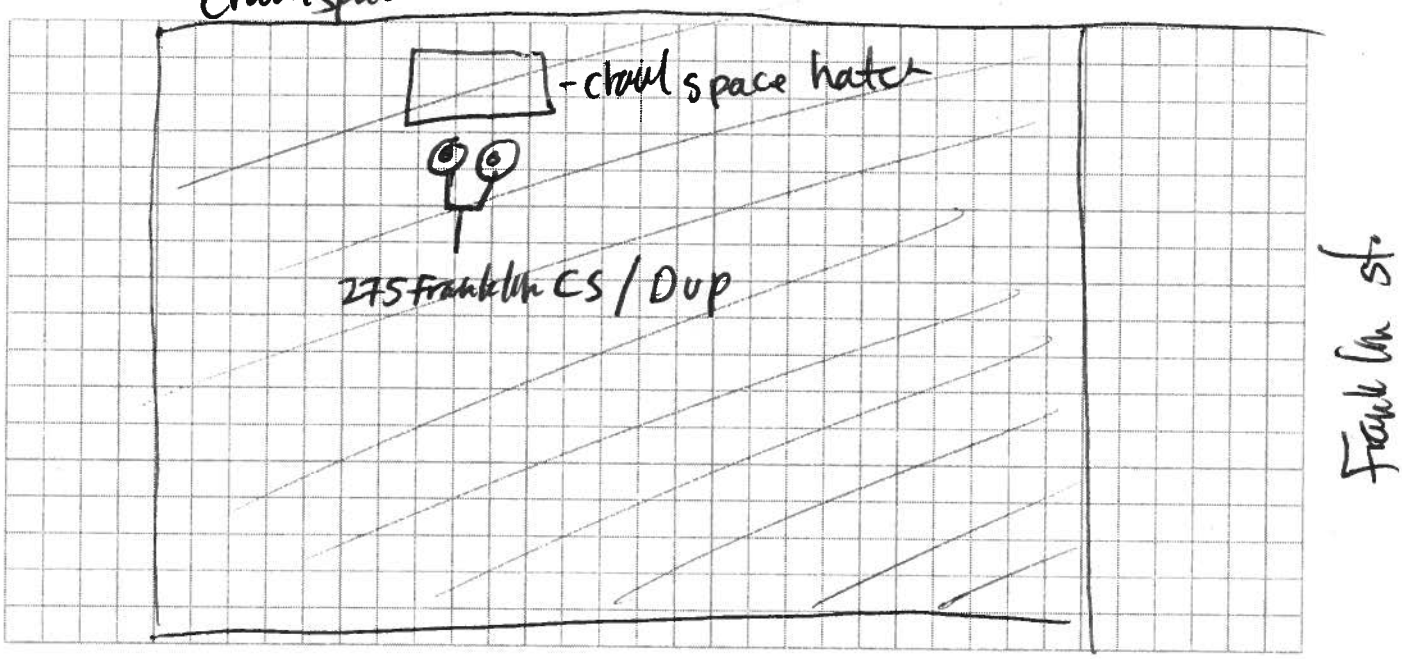
~~c.~~ **Responsibility for costs associated with reimbursement explained?** Y / N

~~d.~~ **Relocation package provided and explained to residents?** Y / N

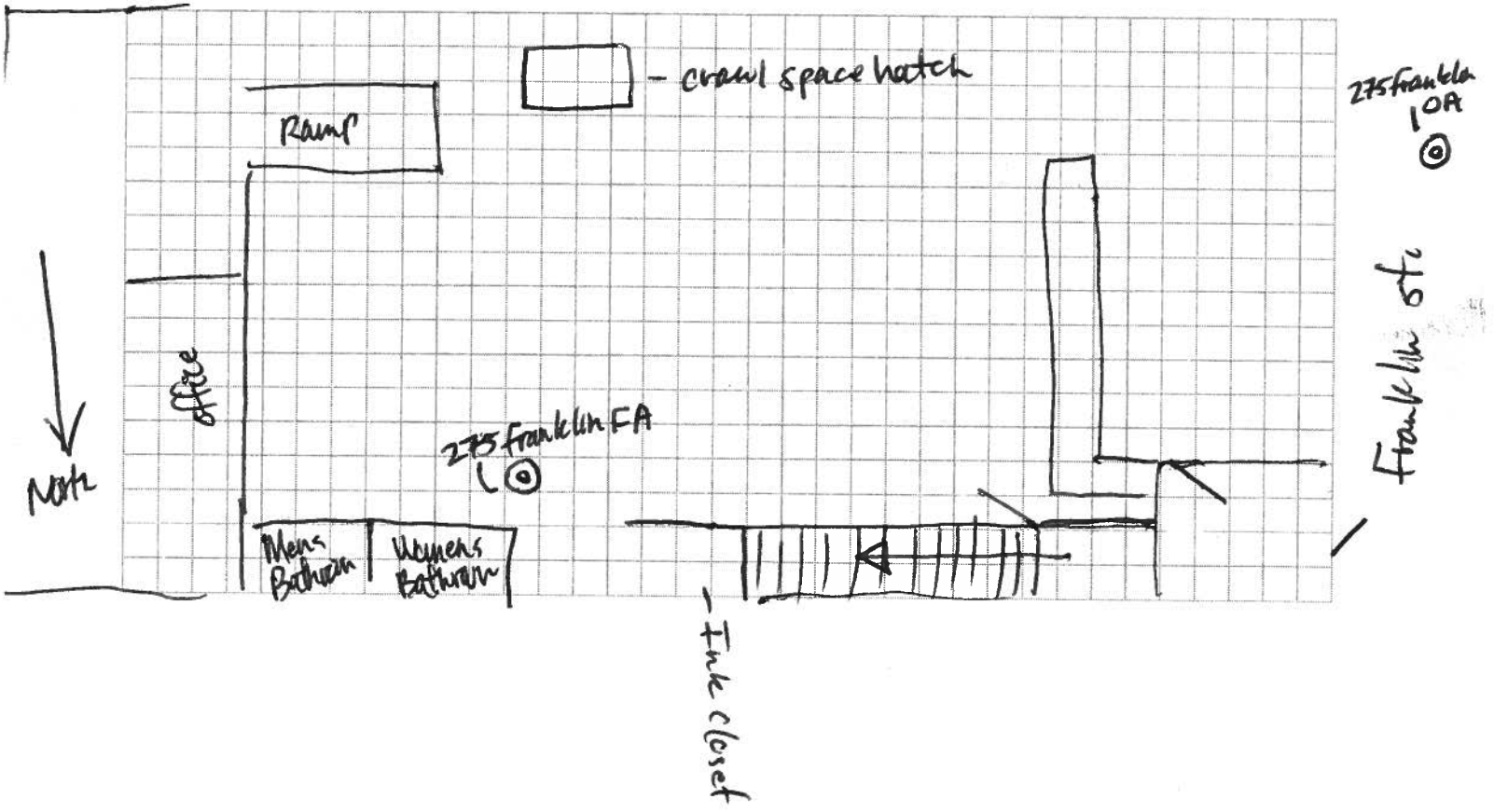
11. FLOOR PLANS

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:**~~ Crawlspace



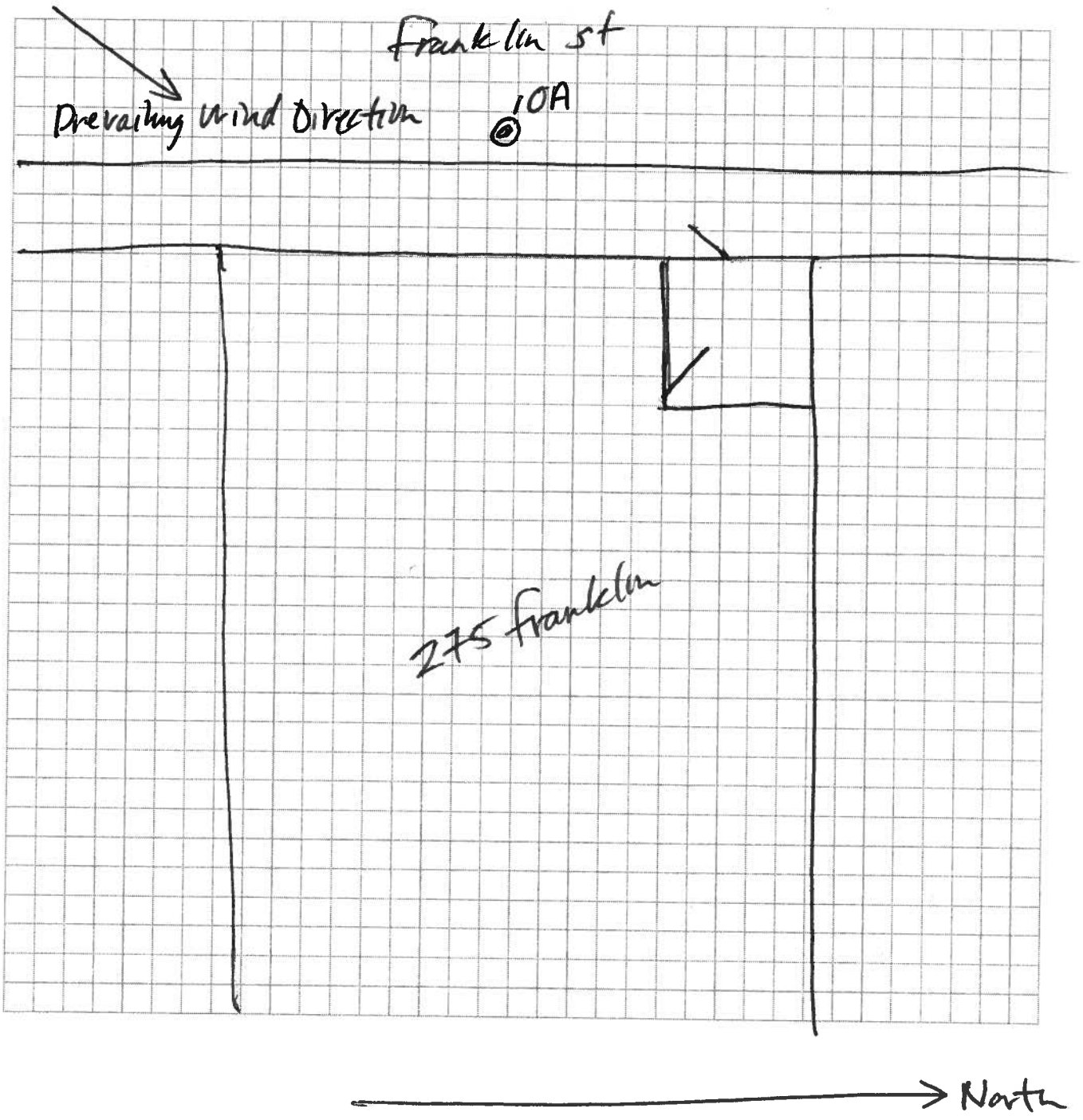
First Floor:



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.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: ppb Rae

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N
closet on first floor	Kohl & Madden Ink	28 5lbs cans	all capped none leaky used	Mod. Rosin Ester Resins	3560 ppb	Yes
				Veg. oils, Hydrotreated		
				middle distillate, organic		
				pigments, Alkyd Resins		
	Braden Sutphin	20		- None listed		
	Ink	5lbs cans				
	Braden Sutphin	45 1lbs		- None listed		
	Ink	cans				
	Unmarked Ink cans	10 5lbs	↓	- None listed	↓	
		cans				
Back Room	Blanket wash	5gal	good	Petroleum Naphtha	85 ppm	
	GE. Richards Graphic supply		Used	Sorbitan Mono-Oleate		
	WM one step water miscible wash		(open top)			
	Super Master/	2gal	good	- Water, Potassium Hydroxide		
	set print plus		Used	Aminoethylethanolamine		
				Potassium Sulfate		↓

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: ppb Rae

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N
Back Room	- Color Ink	2gal	Used	- Water, Potassium Phosphate		Yes
	silver plate stabilizer			Sodium phosphate	4600 ppb	
	- Chem/works	18oz	Used	- 2-Butoxyethanol		
	Glass Cleaner			water, Isobutane,		
				Isopropanol		
	- Day International	1qt	Used	- Deionized water,		
	SlipAgent6			Polysiloxane		
Printshop	- UPdate	16oz	Used	- None listed	3600 ppb	
	Silk spray					
	- WD40	2 12oz	Used	- None listed		
	- 3M cleaner conditioner	1qt	Used	- water, stoddard Solvent		
				Ammonium Phosphate		
				Amorphous Silica		
				Phosphoric Acid		
	Mobil			formaldehyde		
	- Spindle oil light	1gal	Used	- none listed		
	- Niagara Lube					
	Aragach EO 150	1gal	Used	- none listed		

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: ppb Rae

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N
	Day International Inc				4000ppb	Yes
	super Rubber rejuvenator	1gal	used	Dimethyl Glutarate		
				Petroleum Naphtha		
				Dimethyl Adipate		
				Dimethyl Succinate		
	Plastic cups half full of Ink	~100	used	- None	3300ppb	Yes
	- 3 & One	3oz	used	- none		
	- Martin Vale / Roller cleaner	13oz	used	- Petroleum Distillate		
				Hexylene Glycol		
				1-methoxy-2 propanol		
				Isopropanol		
	- Clear Co silicone	16oz	used	Propane, Butane,		
				heptane,		
	- 3M High strength Adhesive	16.6oz	used	- None listed		
	- Raid	16oz	Used	- None listed		
	- White lithium	12oz	Used	- None listed		
	- Armor all	1/2gal	Used	- None listed		

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: ppb Rae

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N
Printshop	Sprinks Ink	17oz	used	-NJTSR# 80100143-5001P		
	Kwik n' Easy Roller & Blanket Deglazer			Htmls - HO F-O RO	3800 ppm	Yes
	- Gold Miracle starter cleaner & conditioner	1pint	used	-None listed		
	- LA-CO Zoom/Spout oiler	4oz		-None listed		
	-Unigraph Inter. plate cleaner desensitizer & protector	1qrt		-Gum Arabic -Naphtha petroleum -Light Aromatic solvent pineoil.		

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

MALCOLM PIRNIE

PHOTOGRAPHIC LOG

Project:	Location:	Project No.
275 Franklin Street Site, Buffalo, New York	Insty-Prints (265 Franklin Street)	0266-377

Photo No.	Date:
004	05/29/2008

Direction Photo Taken:

Southwest

Description:

Location of outdoor air sample (275 Franklin OA)

MALCOLM PIRNIE

PHOTOGRAPHIC LOG

Project:	Location:	Project No.
275 Franklin Street Site, Buffalo, New York	Insty-Prints (265 Franklin Street)	0266-377

Photo No.	Date:
006	05/29/2008

Direction Photo Taken:

East

Description:

Location of indoor air sample (275 Franklin FA)

MALCOLM PIRNIE

PHOTOGRAPHIC LOG

Project:	Location:	Project No.
275 Franklin Street Site, Buffalo, New York	Insty-Prints (265 Franklin Street)	0266-377

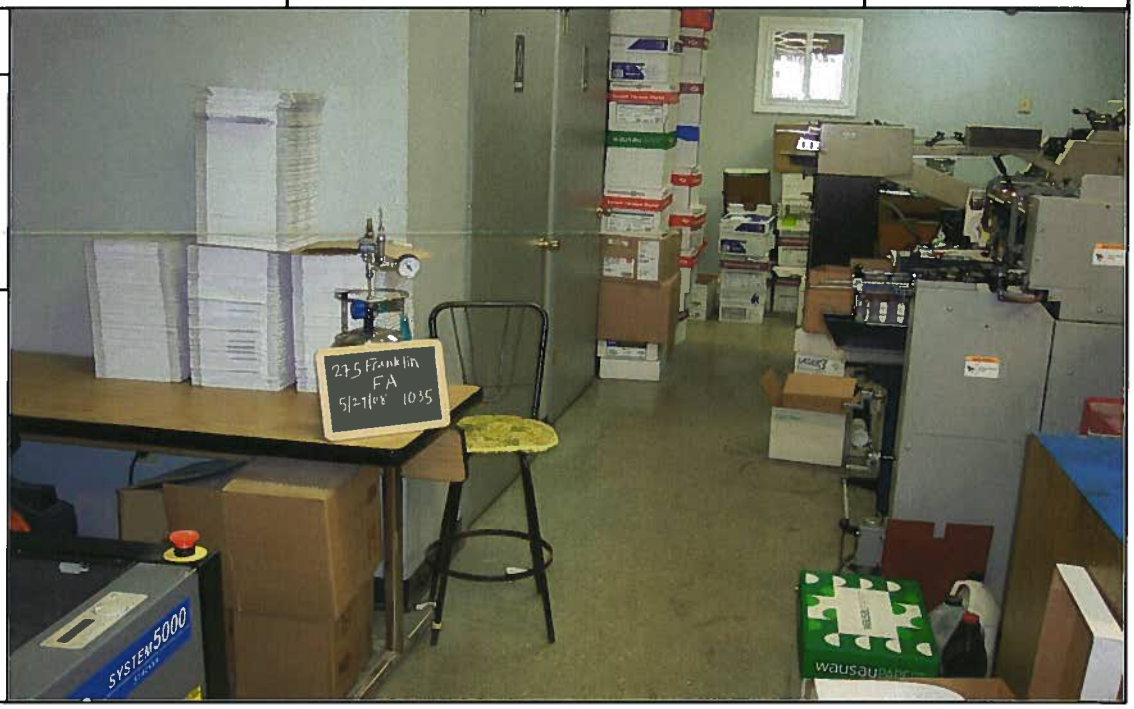
Photo No.	Date:
005	05/29/2008

Direction Photo Taken:

East

Description:

Location of indoor air sample (275 Franklin FA)



MALCOLM PIRNIE

PHOTOGRAPHIC LOG

Project:	Location:	Project No.
275 Franklin Street Site, Buffalo, New York	Insty-Prints (265 Franklin Street)	0266-377

Photo No.	Date:
001	05/29/2008

Direction Photo Taken:

Southeast

Description:

Hatch door to crawl space.

MALCOLM PIRNIE

PHOTOGRAPHIC LOG

Project:	Location:	Project No.
275 Franklin Street Site, Buffalo, New York	Insty-Prints (265 Franklin Street)	0266-377

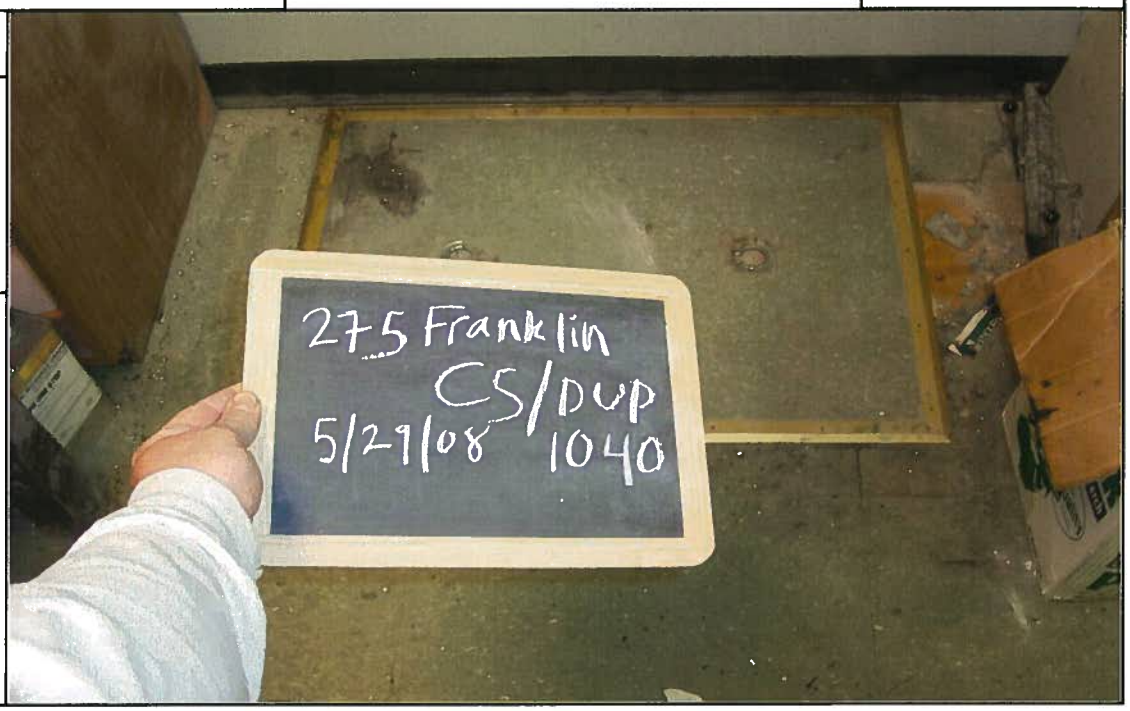
Photo No.	Date:
007	05/29/2008

Direction Photo Taken:

South

Description:

Closed crawl space from which two air samples were collected (CS and Dup)



MALCOLM PIRNIE

PHOTOGRAPHIC LOG

Project:	Location:	Project No.
275 Franklin Street Site, Buffalo, New York	Insty-Prints (265 Franklin Street)	0266-377

Photo No.	Date:
008	05/29/2008

Direction Photo Taken:

South

Description:

Air sample (CS and Dup) canisters in crawl space.

MALCOLM PIRNIE

PHOTOGRAPHIC LOG

Project:	Location:	Project No.
275 Franklin Street Site, Buffalo, New York	Insty-Prints (265 Franklin Street)	0266-377

Photo No.	Date:
009	05/29/2008

Direction Photo Taken:

North

Description:

Potential VOC-containing products.

MALCOLM PIRNIE

PHOTOGRAPHIC LOG

Project:	Location:	Project No.
275 Franklin Street Site, Buffalo, New York	Insty-Prints (265 Franklin Street)	0266-377

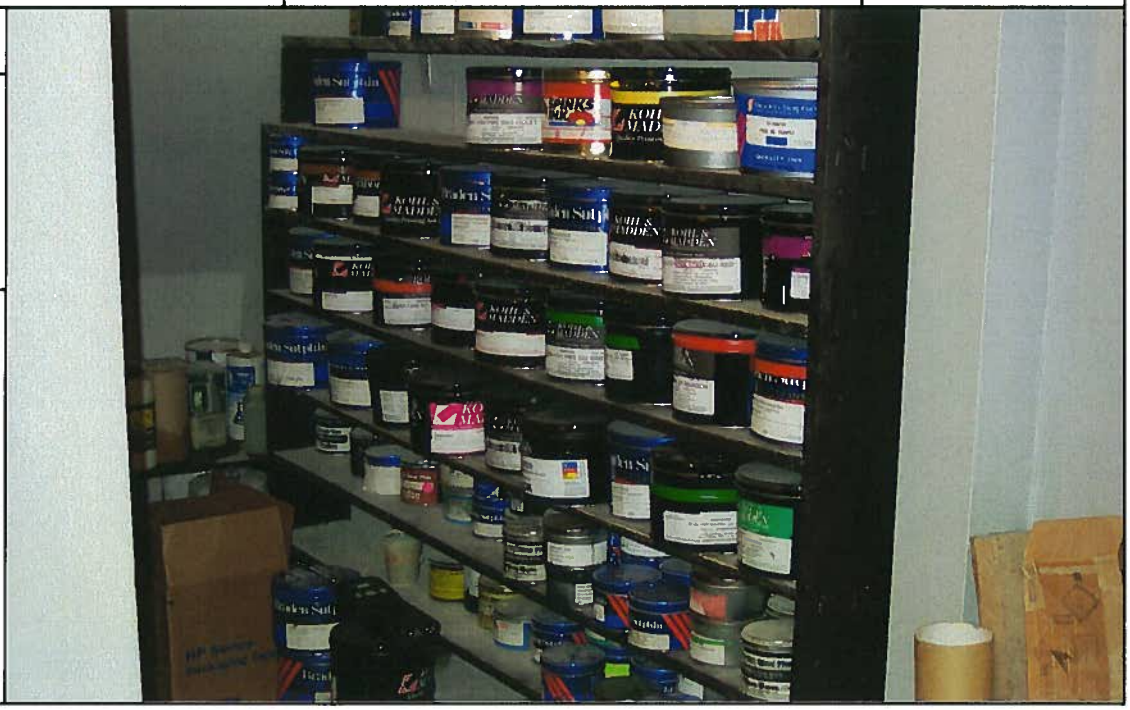
Photo No.	Date:
010	05/29/2008

Direction Photo Taken:

Northwest

Description:

Potential VOC-containing products.



MALCOLM PIRNIE

PHOTOGRAPHIC LOG

Project:	Location:	Project No.
275 Franklin Street Site, Buffalo, New York	Insty-Prints (265 Franklin Street)	0266-377

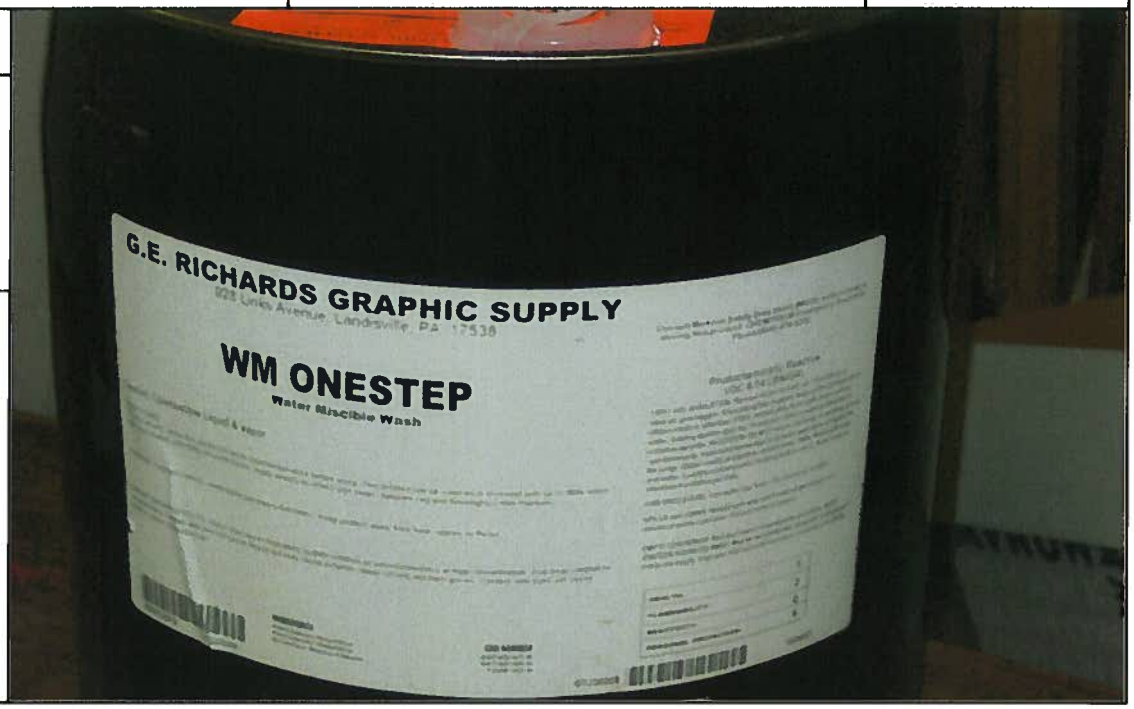
Photo No.	Date:
014	05/29/2008

Direction Photo Taken:

NA

Description:

Potential VOC-containing product.



MALCOLM PIRNIE

PHOTOGRAPHIC LOG

Project:	Location:	Project No.
275 Franklin Street Site, Buffalo, New York	Insty-Prints (265 Franklin Street)	0266-377

Photo No.	Date:
015	05/29/2008

Direction Photo Taken:

NA

Description:

Potential VOC-containing products.

MALCOLM PIRNIE

PHOTOGRAPHIC LOG

Project:	Location:	Project No.
275 Franklin Street Site, Buffalo, New York	Insty-Prints (265 Franklin Street)	0266-377

Photo No.	Date:
016	05/29/2008

Direction Photo Taken:

NA

Description:

Potential VOC-containing products.

MALCOLM PIRNIE

PHOTOGRAPHIC LOG

Project:	Location:	Project No.
275 Franklin Street Site, Buffalo, New York	Insty-Prints (265 Franklin Street)	0266-377

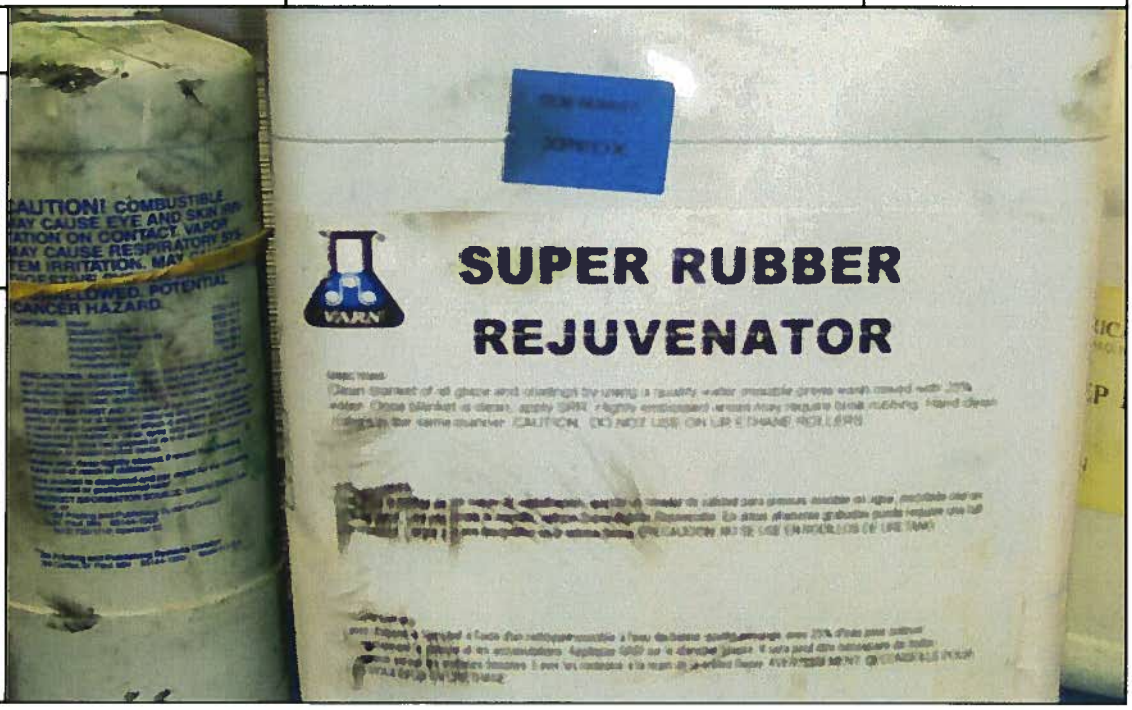
Photo No.	Date:
017	05/29/2008

Direction Photo Taken:

NA

Description:

Potential VOC-containing products.



MALCOLM PIRNIE

PHOTOGRAPHIC LOG

Project:	Location:	Project No.
275 Franklin Street Site, Buffalo, New York	Insty-Prints (265 Franklin Street)	0266-377

Photo No.	Date:
018	05/29/2008

Direction Photo Taken:

Southwest.

Description:

Potential VOC-containing products.

MALCOLM PIRNIE

PHOTOGRAPHIC LOG

Project:	Location:	Project No.
275 Franklin Street Site, Buffalo, New York	Insty-Prints (265 Franklin Street)	0266-377

Photo No.	Date:
019	05/29/2008

Direction Photo Taken:

NA

Description:

Potential VOC-containing products.

MALCOLM PIRNIE

PHOTOGRAPHIC LOG

Project:	Location:	Project No.
275 Franklin Street Site, Buffalo, New York	Insty-Prints (265 Franklin Street)	0266-377

Photo No.	Date:
020	05/29/2008

Direction Photo Taken:

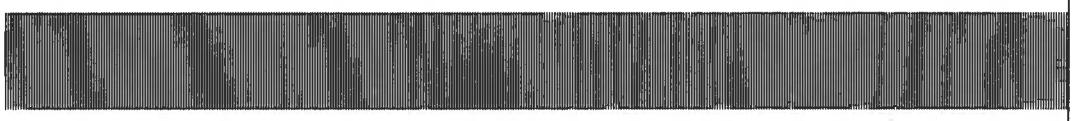
NA

Description:

Potential VOC-containing products.

New York State Department of Environmental Conservation
Immediate Investigation Summary Report

Air Sampling Event #2



0266-377 / BUF

MALCOLM PIRNIE

OSR – 3

267 Franklin st.

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 Dwight Symonds Date/Time Prepared 10/28/08 1100

Preparer's Affiliation Malcolm Pirnie Inc Phone No. 585-727-3710

Purpose of Investigation _____

1. OCCUPANT:

Interviewed: Y / N

Last Name: Masucci First Name: Antonio

Address: 267 Franklin st - Buffalo NY

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location 13 Age of Occupants avg ~ 35 ↑ (25, 30, 35, 65)

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: Y / N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	Commercial/Multi-use
Industrial	Church	Other: _____

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

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? _____

If the property is commercial, type?

Business Type(s) _____

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

Other characteristics:

Number of floors 4 Building age ?

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

some Connection w/ Hallways & Doorways

Airflow near source

Outdoor air infiltration

some / old Bldg.

Infiltration into air ducts

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 _____
c. Basement floor:	concrete &	dirt	stone	other slab wood floor
d. Basement floor:	uncovered	covered	covered with	partially covered carpet.
e. Concrete floor:	unsealed	sealed	sealed with _____	
f. Foundation walls:	poured	block	stone	other _____
g. Foundation walls:	unsealed	sealed	sealed with	paint.
h. The basement is:	wet	damp	dry	moldy
i. The basement is:	finished	unfinished	partially finished	
j. Sump present?	Y / N			
k. Water in sump?	Y / N / not applicable			

Basement/Lowest level depth below grade: 6' (feet)

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

subslab is irregularly poured - unevenness in floor - some cracking

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

The primary type of fuel used is:

Natural Gas	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

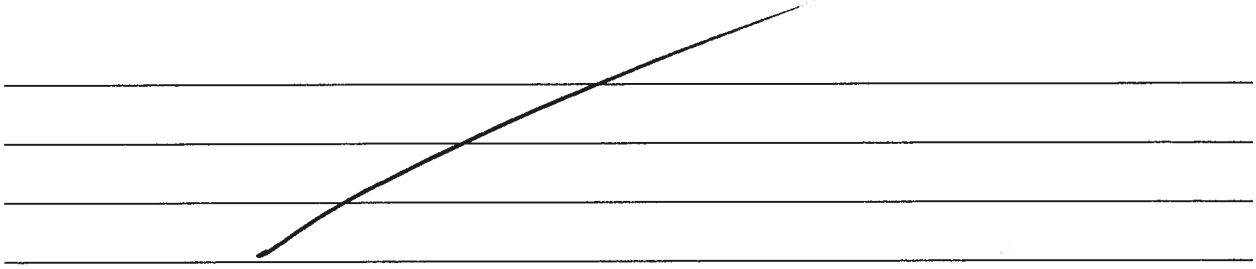
Domestic hot water tank fueled by: Natural Gas

Boiler/furnace located in: Basement Outdoors Main Floor Other_____

Air conditioning: Central Air Window units Open Windows None

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 Occasionally Seldom Almost Never

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	utility Room / Boiler Room / two appts.
1st Floor	4 appts
2nd Floor	4 appts
3rd Floor	4 appts
4th Floor	

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? ? possible

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? _____

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? over a month.

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

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? household cleaners / paint thinners

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: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

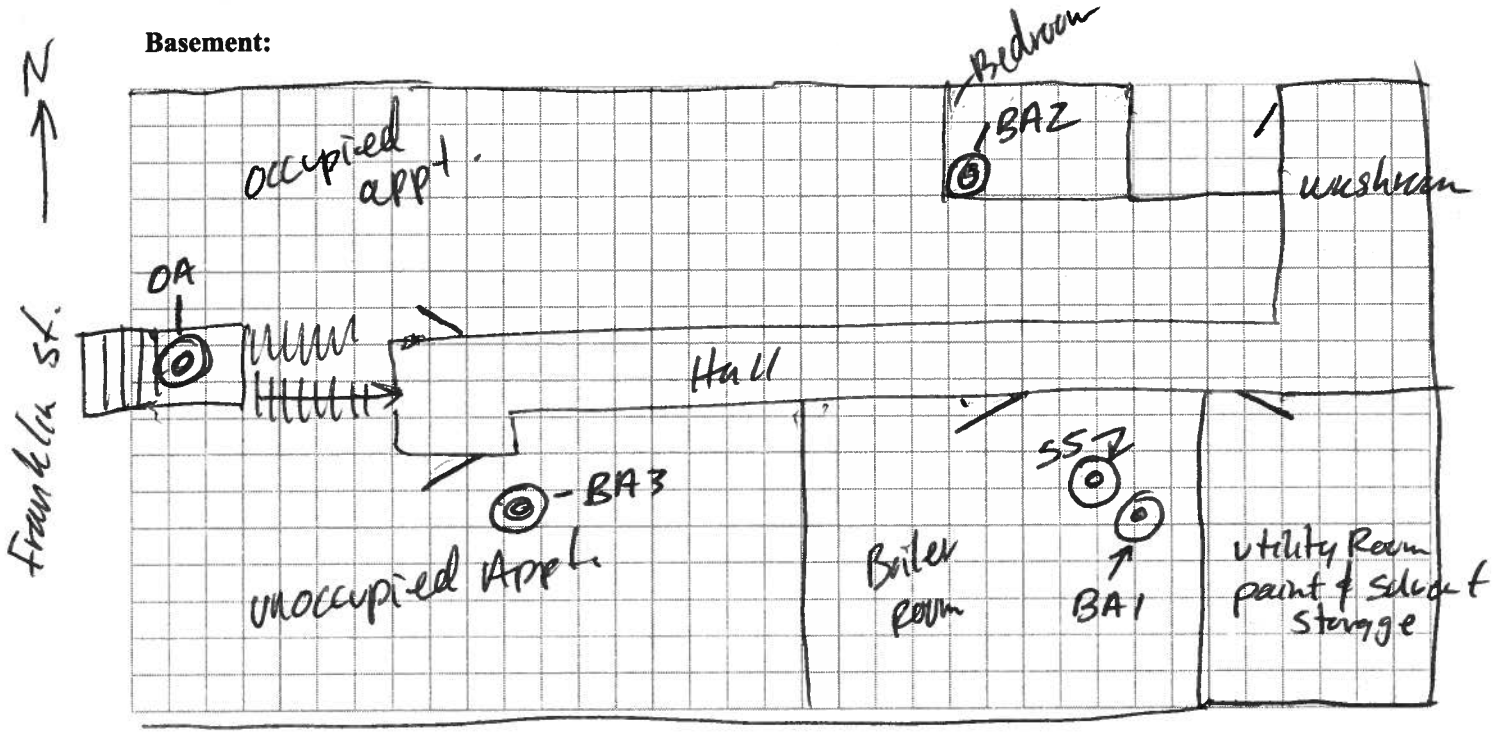
c. Responsibility for costs associated with reimbursement explained? Y / ~~N~~

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:

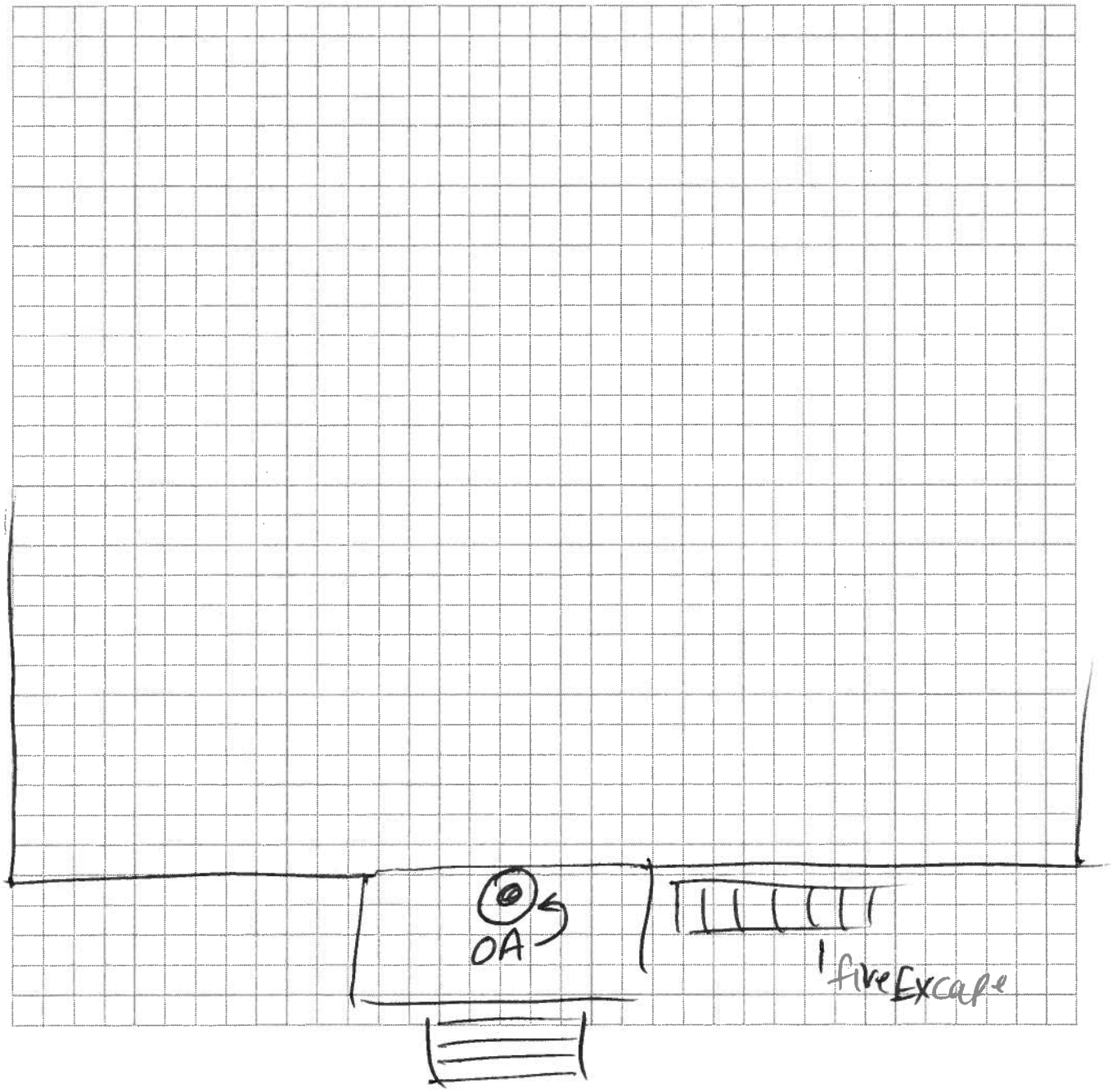


First Floor:

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.



13. PRODUCT INVENTORY FORM

R5920

Make & Model of field instrument used: PPB Rae

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N
MAINT. CLOSET	LATEX + OIL BASED PAINT	1G	LESS THAN FULL	PAINT / OVER OPEN CANS THINNER	3 PPM	864
"	OPEN CANS PAINT THINNER	1G	USED	SOAKING PAINT BRUSHES	310 PPM	863
"	20 MISC. CONTENTS STAIN, PAINTS	8 OZ TO 1 GAL	USED	VARIOUS	5.7 PPM	861
"	18 CALK, ADHESIVE GROUT STUFF	CALK TUBES	NEW & USED	VARIOUS	1.7 PPM	860
"	13 CONT. SOAPS	13 - 7502	USED	SOAPS	1.7 PPM	859
"	24 WD40, OVEN CLEANER SPRAY PAINTS ETC	1 QT	USED	OIL, PAINT, PESTICIDES VARIOUS	1.7 PPM	858

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

MALCOLM PIRNIE

PHOTOGRAPHIC LOG

Project:	Location:	Project No.
275 Franklin Street Site, Buffalo, New York	Apartment Bld. (267 Franklin Street)	0266-377

Photo No.	Date:
	10/28-29/08

Direction Photo Taken:

View to East

Description:

Sample canister on front fire escape for background outdoor air sample
(267 Franklin –OA)

MALCOLM PIRNIE

PHOTOGRAPHIC LOG

Project:	Location:	Project No.
275 Franklin Street Site, Buffalo, New York	Apartment Bld. (267 Franklin Street)	0266-377

Photo No.	Date:
	10/28-29/08

Direction Photo Taken:

View to east

Description:

Sub-slab sample (SS) and Basement air sample (BA1) located in boiler room of 267 Franklin Street apartment building.

MALCOLM PIRNIE

PHOTOGRAPHIC LOG

Project:	Location:	Project No.
275 Franklin Street Site, Buffalo, New York	Apartment Bld. (267 Franklin Street)	0266-377

Photo No.	Date:
	10/28-29/08

Direction Photo Taken:

View to East inside.

Description:

Location of basement air sample BA-3 in the kitchen of apartment B-1.

MALCOLM PIRNIE

PHOTOGRAPHIC LOG

Project:	Location:	Project No.
275 Franklin Street Site, Buffalo, New York	Apartment Bld. (267 Franklin Street)	0266-377

Photo No.	Date:
	10/28-29/08

Direction Photo Taken:

View to South

Description:

Location of basement air sample BA-2 in main bedroom of apartment B-2.

MALCOLM PIRNIE

PHOTOGRAPHIC LOG

Project:	Location:	Project No.
275 Franklin Street Site, Buffalo, New York	Apartment Bld. (267 Franklin Street)	0266-377

Photo No.	Date:
	10/28-29/08

Direction Photo Taken:

View to the South

Description:

Maintenance shop in the Southeast of basement level of 267 Franklin St. Note the many sources of VOCs present.

MALCOLM PIRNIE

PHOTOGRAPHIC LOG

Project:	Location:	Project No.
275 Franklin Street Site, Buffalo, New York	Apartment Bld. (267 Franklin Street)	0266-377

Photo No.	Date:
	10/28-29/08

Direction Photo Taken:

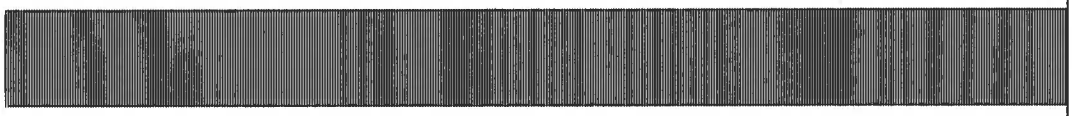
View to the East.

Description:

Some of the many consumer sources of VOCs located in the maintenance shop of 267 Franklin Street.

New York State Department of Environmental Conservation
Immediate Investigation Summary Report

SSD System



0266-377 / BUF

MALCOLM PIRNIE

mitigation tech *vapor intrusion specialists*

INVOICE

January 26, 2009

Mr. James J. Richert
Senior Project Hydrogeologist
Malcolm Pirnie, Inc.
50 Fountain Plaza, Suite 600
Buffalo, New York 14202
Via e-mail: jrichert@pirnie.com

Re: Project # 0266377
267 Franklin St., Buffalo, NY
Sub-slab Depressurization

For work completed 12-1, 2008 per proposals dated 9-11, 2008 and 10-13, 2008

Phase 1 - Furnished:

- Sub-slab air communication testing
- Professional design analysis to optimize fan and piping configuration and to minimize disturbance to existing or planned interior improvements and operation
- Examine the floor surfaces for material defects and potential leaks that would diminish the effectiveness of the SSD system
- Prepare and submit a work plan in accordance with NYS DOH Guidance Document on Mitigation of Soil Vapor Intrusion

Phase 2 - Furnished and Installed:

- Professional field consultation and supervision
- Sub-slab air communication testing concurrent with construction
- Design/Build construction for optimized outcome based on continuing field measurement
- Final placements of all components subject to approval by representatives of Malcolm Pirnie
- [System 1] -- (1) RADONAWAY GP-501 series centrifugal in-line fan (max 4.2 wci), (150w maximum continuous duty), roof mount via abandoned chimney, to provide sub-slab

depressurization via 4" or 3" schedule 40 PVC pipe to roof exhaust; with (3) suction cavities in sub-slab, with urethane seal; boiler room and south basement apartment; access hole to suction cavity by 5"core drill; suction cavity to consist of approximately 1 cu. ft. excavated material in sub-slab

- [System 2] -- (2) RADONAWAY RP-265 series centrifugal in-line fan (in series, each max 2.6 wci), (150w maximum continuous duty), roof mount via abandoned chimney, to provide sub-slab depressurization via 4" vertical riser/truck line and (4) 3"" connecting lines to sub-slab at strategic locations
- (2) U-tube manometers, one per system
- Electrical weatherproof conduit from fan housings to building interior and connection to customer designated circuit in boiler room
- Urethane sealant at slab joints, cracks and penetrations
- At completion, smoke test all floor cavities for vacuum leaks; backdraft test
- At completion, measure pressure differentials and document per Malcolm Pirnie requirements
- Insurance certificates as required
- Three year warranty; labor and installed components; although system design is based on achieving a sufficient pressure differential as suggested by site assessment, no specific warranty of effectiveness – effectiveness shall be determined by continuing field measurement provided by others; additional or modified suction points, fans or other measures may be required by others at other's expense

Labor and material: Phase 1 [redacted]
Phase 2
Net.....

Thank you.

Nicholas E. Mouganis EPA listing # 15415-I; NEHA ID# 100722

MALCOLM PIRNIE

INDEPENDENT ENVIRONMENTAL ENGINEERS, SCIENTISTS AND CONSULTANTS

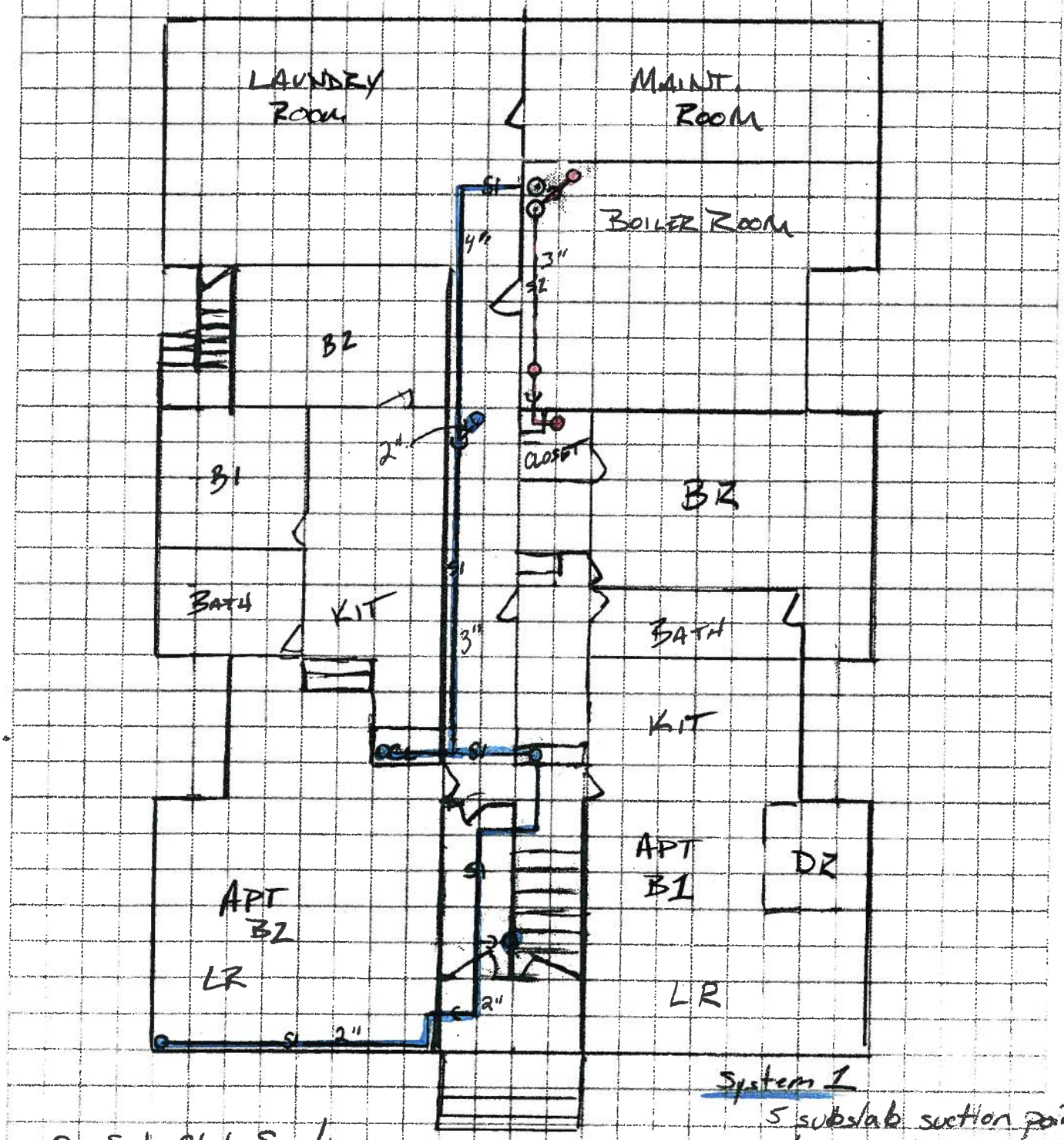
Malcolm Pirnie, Inc.

BY BWJ DATE 12/5/08 SHEET NO. ..... OF .....

CHKD. BY ..... DATE ..... JOB NO. .....

SUBJECT 267 FRANKLIN ST

Sub-Slab System Configuration



System 1
5 subslab suction points w/ 2 265 Fans (stacked)

System 2
3 subslab suction points w/ 1 501 Fan

O - Sub-Slab Suction Point

FRANKLIN ST

146721

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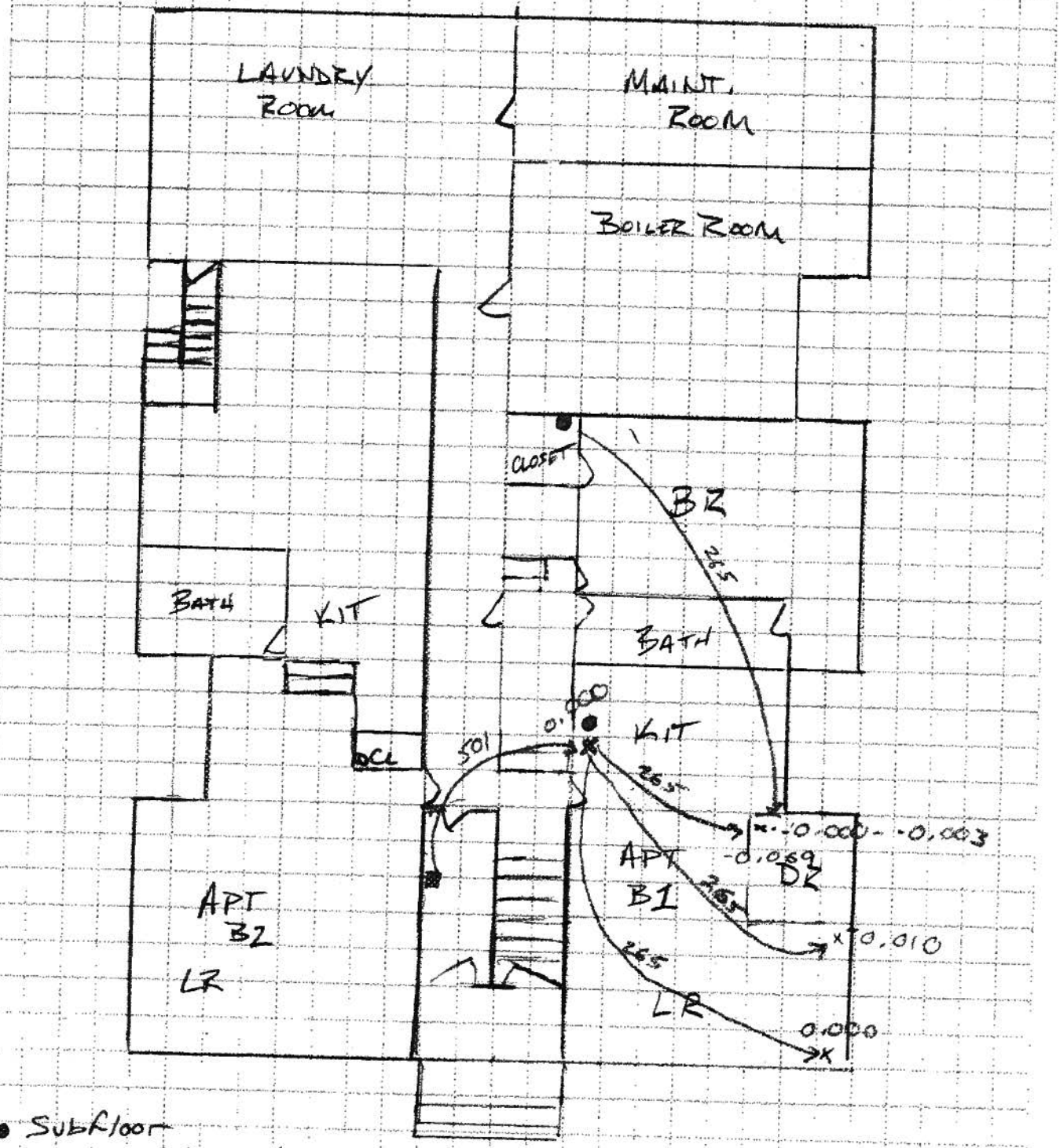
Malcolm Pirnie, Inc.

BY BWJ DATE 11/13/08 SHEET NO. 1 OF

CHKD. BY DATE JOB NO.

SUBJECT 267 FRANKLIN ST



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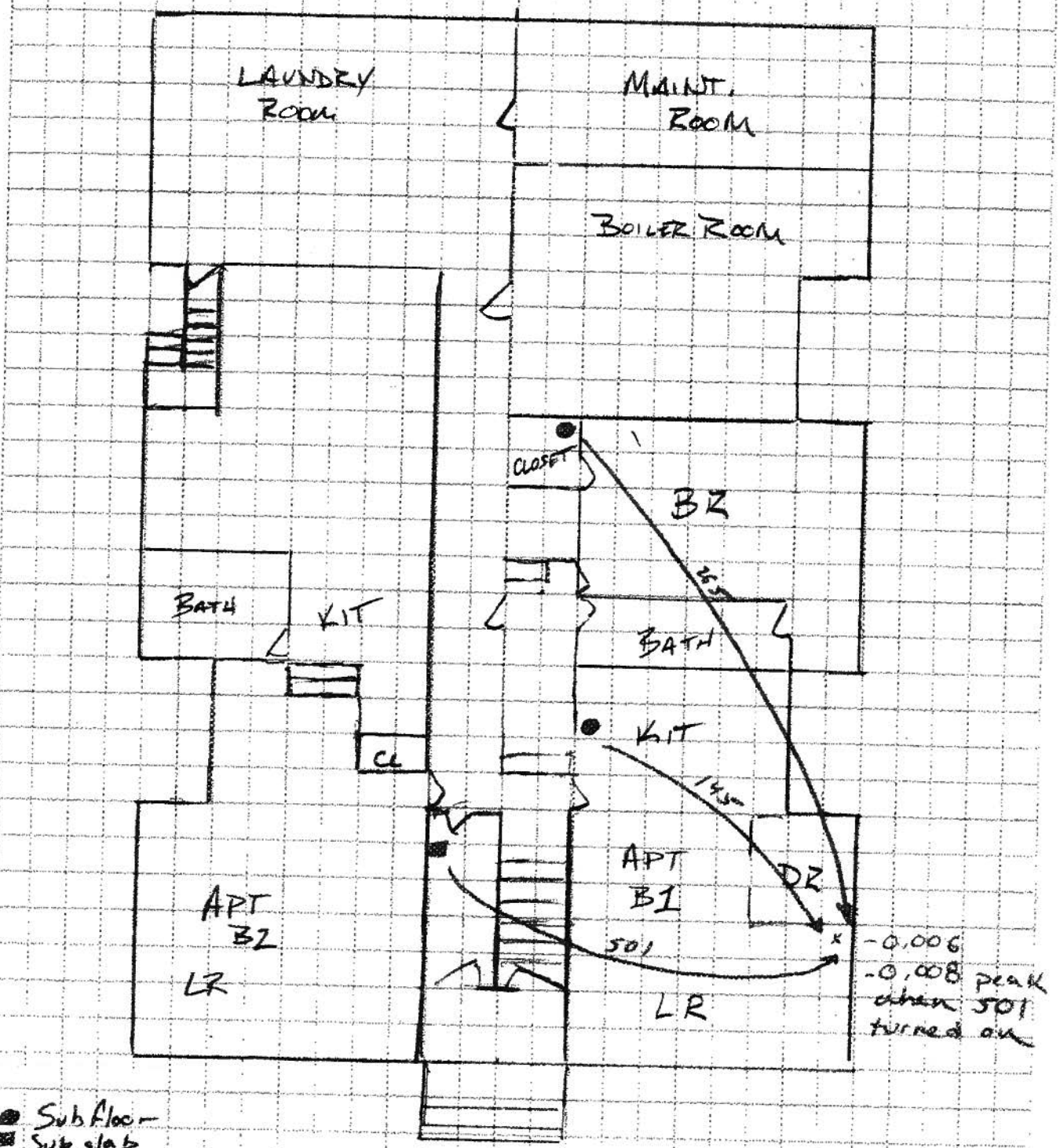
BY BW DATE 11/13/08 SHEET NO. 2 OF

CHKD. BY ..... DATE ..... JOB NO. .....

SUBJECT 267 FRANKLIN ST



FRANKLIN ST

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MALCOLM PIRNIE

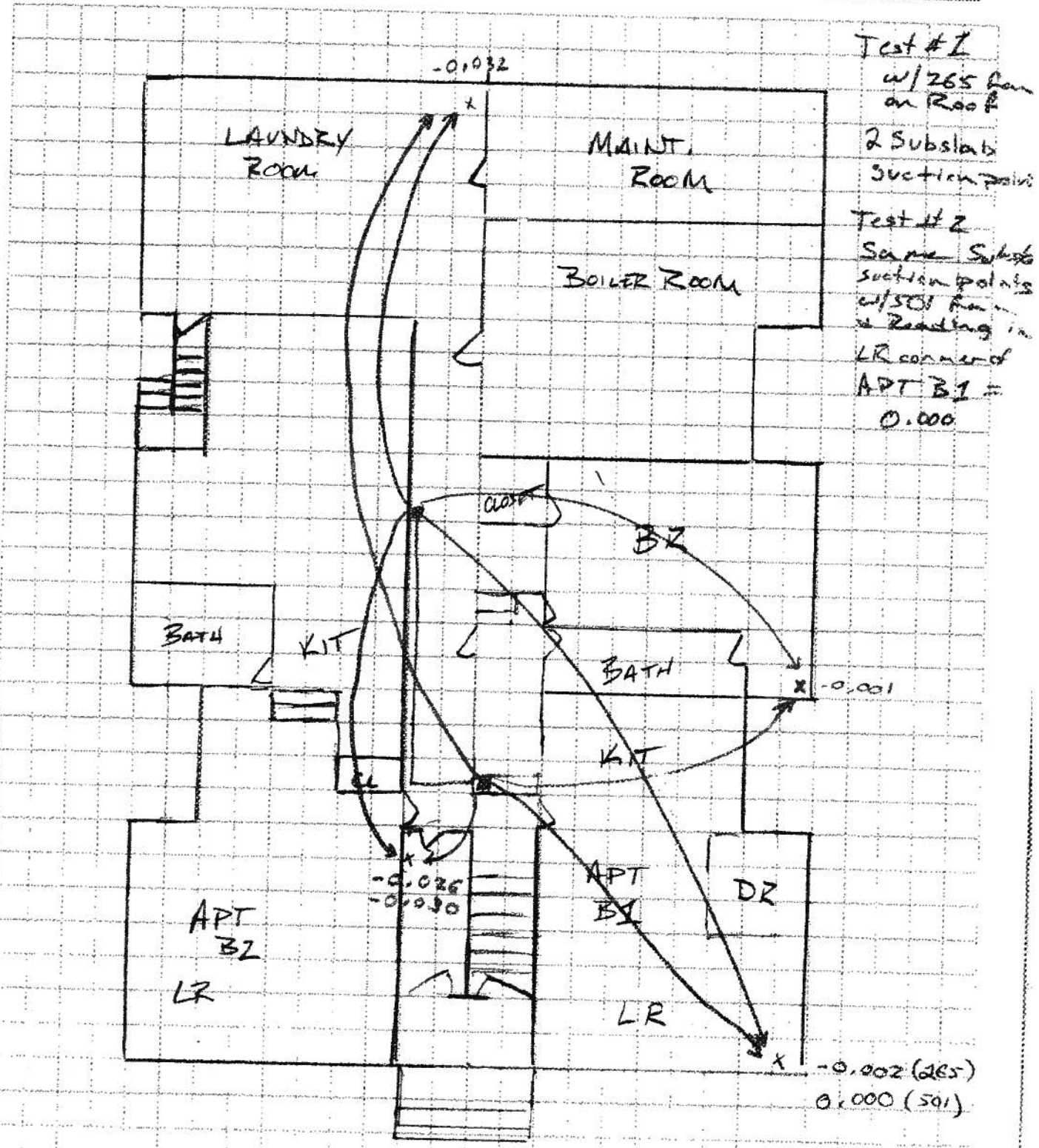
INDEPENDENT ENVIRONMENTAL ENGINEERS, SCIENTISTS AND CONSULTANTS

Malcolm Pirnie, Inc.

BY BWJ DATE 11/14/08 SHEET NO. 3 OF .....

CHKD. BY ..... DATE ..... JOB NO. .....

SUBJECT 267 FRANKLIN ST



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INDEPENDENT ENVIRONMENTAL ENGINEERS, SCIENTISTS AND CONSULTANTS

Malcolm Pirnie, Inc. 14

BY BWJ DATE 11/25/08 SHEET NO. 4 OF

CHKD. BY DATE JOB NO.

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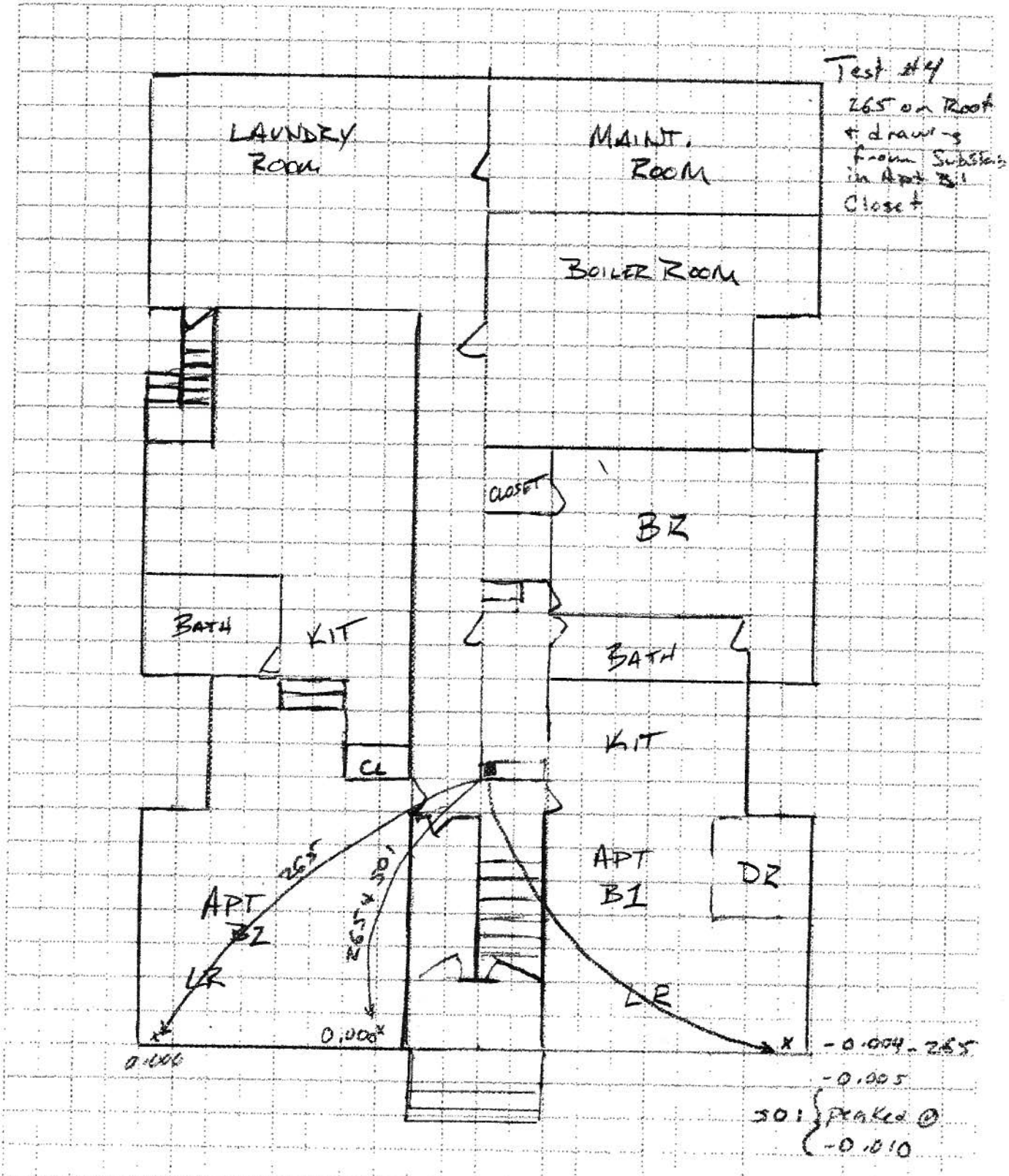

FRANKLIN ST

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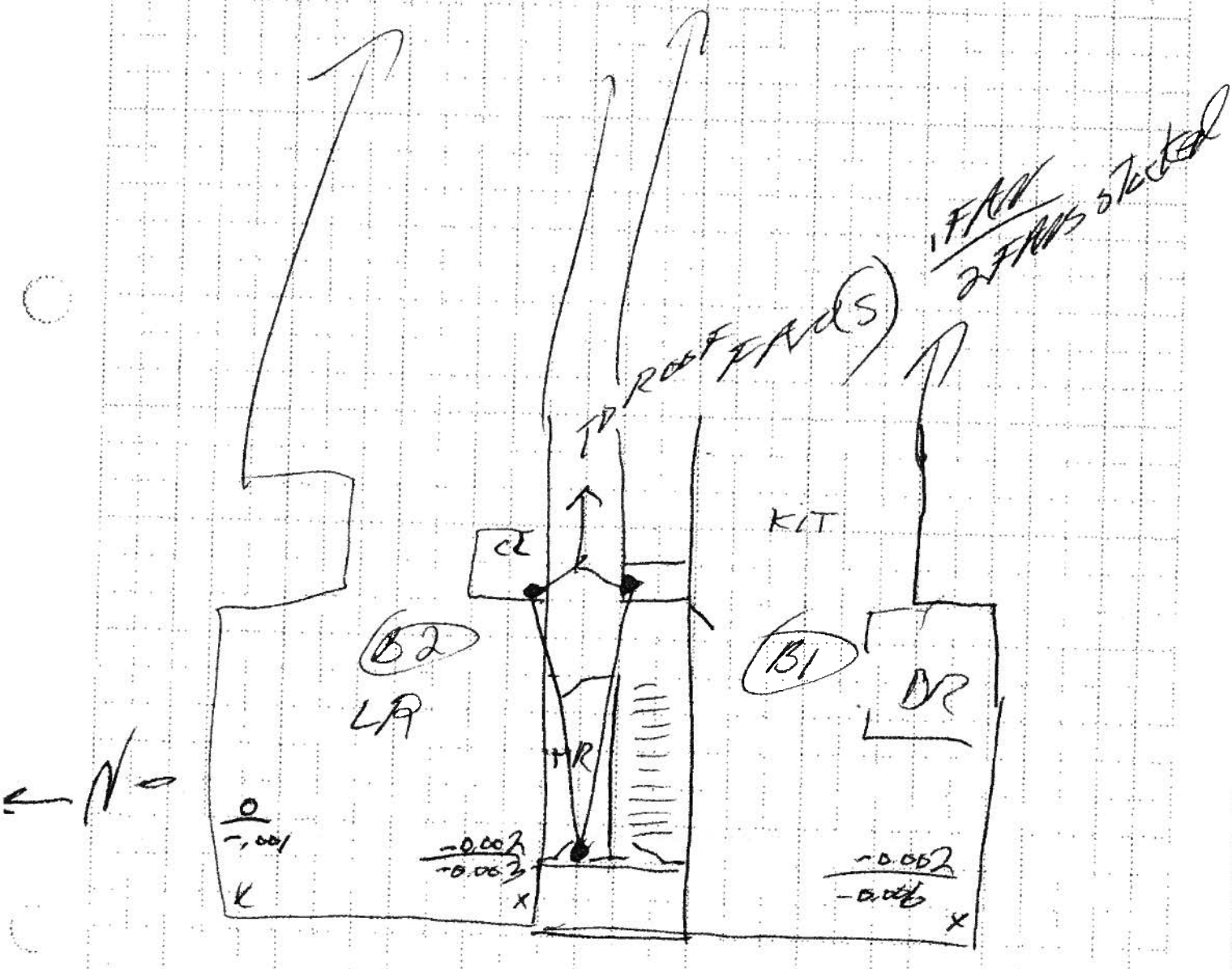
INDEPENDENT ENVIRONMENTAL ENGINEERS, SCIENTISTS AND CONSULTANTS

Malcolm Pirnie, Inc.

BY JE DATE 11/04 SHEET NO. 1 OF

CHKD. BY DATE JOB NO.

SUBJECT 267 Franklin St



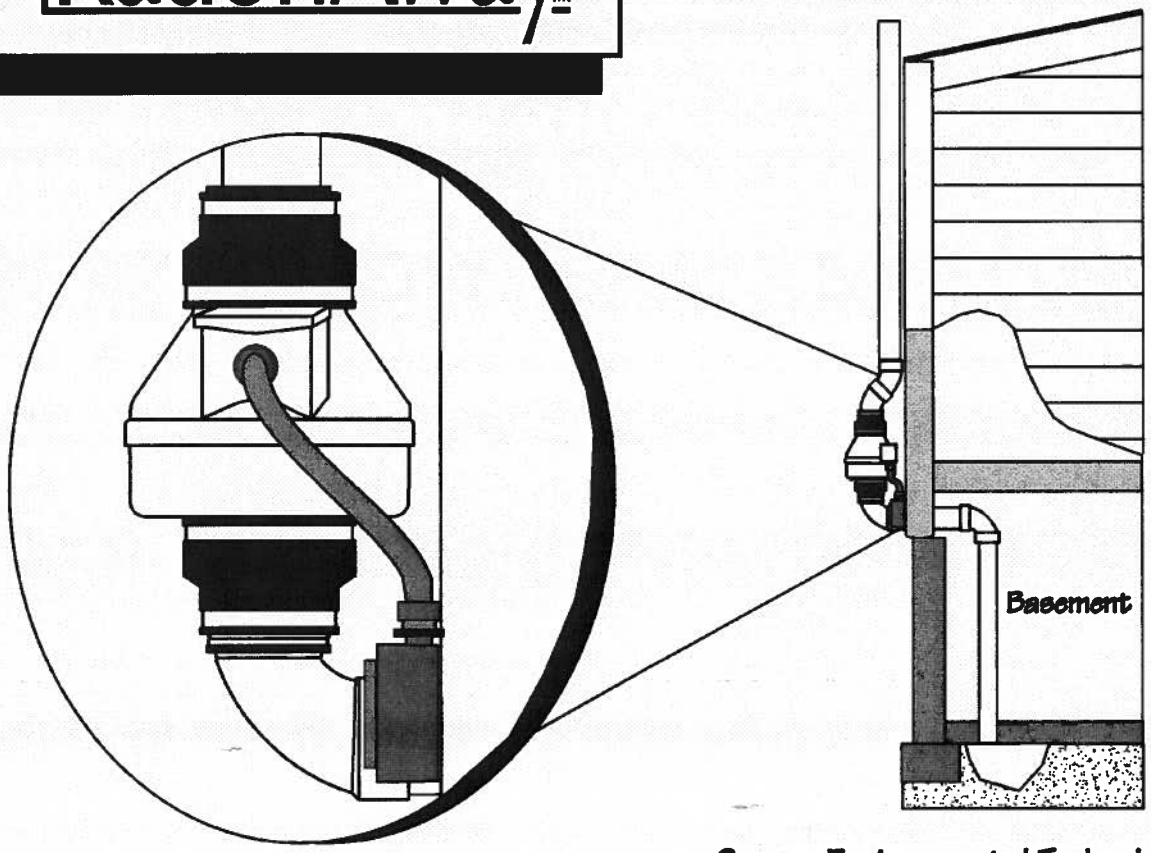
267 Franklin St

148721

Solutions for Life™

RP Series Installation Instructions

By RadonAway™



Spruce Environmental Technologies, Inc.
Ward Hill, MA P/N IN020 Rev H

RadonAway™

Series Fan Installation Instructions

Please Read and Save These Instructions.

DO NOT CONNECT POWER SUPPLY UNTIL FAN IS COMPLETELY INSTALLED.
MAKE SURE ELECTRICAL SERVICE TO FAN IS LOCKED IN "OFF" POSITION.
DISCONNECT POWER BEFORE SERVICING FAN.

1. **WARNING!** Do not use fan in hazardous environments where fan electrical system could provide ignition to combustible or flammable materials.

2. **WARNING!** Do not use fan to pump explosive or corrosive gases.

3. **WARNING!** Check voltage at the fan to insure it corresponds with nameplate.

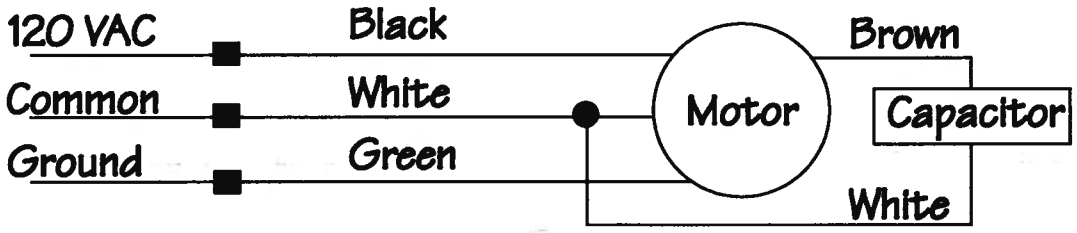
4. **WARNING!** Normal operation of this device may affect the combustion airflow needed for safe operation of fuel burning equipment. Check for possible backdraft conditions on all combustion devices after installation.

5. **NOTICE!** There are no user serviceable parts located inside the fan unit.
Do NOT attempt to open. Return unit to the factory for service.

6. All wiring must be performed in accordance with the National Fire Protection Association's (NFPA)"National Electrical Code, Standard #70"-current edition for all commercial and industrial work, and state and local building codes. All wiring must be performed by a qualified and licensed electrician

7. **WARNING!** Do not leave fan unit installed on system piping without electrical power for more than 48 hours. Fan failure could result from this non-operational storage.

DynaVac RP Series Fan Wiring Diagram



1.0 SYSTEM DESIGN CONSIDERATIONS

1.1 INTRODUCTION

The DynaVac RP Series Radon Fans are intended for use by trained, professional Radon mitigators. The purpose of this instruction is to provide additional guidance for the most effective use of a DynaVac Fan. This instruction should be considered as a supplement to EPA standard practices, state and local building codes and state regulations. In the event of a conflict, those codes, practices and regulations take precedence over this instruction.

1.2 ENVIRONMENTALS

The RP Series Fans are designed to perform year-round in all but the harshest climates without additional concern for temperature or weather. For installations in an area of severe cold weather, please contact RadonAway for assistance. When not in operation, the fan should be stored in an area where the temperature is never less than 32 degrees F. or more than 100 degrees F.

1.3 ACOUSTICS

The RP Series Fan, when installed properly, operates with little or no noticeable noise to the building occupants. The velocity of the outgoing air should be considered in the overall system design. In some cases the "rushing" sound of the outlet air may be disturbing. In these instances, the use of a RadonAway Exhaust Muffler is recommended.

1.4 GROUND WATER

In the event that a temporary high water table results in water at or above slab level, water may be drawn into the riser pipes thus blocking air flow to the RP Series Fan. The lack of cooling air may result in the fan cycling on and off as the internal temperature rises above the thermal cutoff and falls upon shutoff. Should this condition arise, it is recommended that the fan be turned off until the water recedes allowing for return to normal operation.

1.5 SLAB COVERAGE

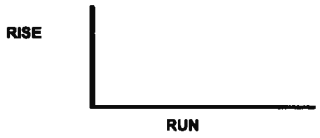
The RP Series Fan can provide coverage up to 2000+ sq. ft. per slab penetration. This will primarily depend on the sub-slab material in any particular installation. In general, the tighter the material, the smaller the area covered per penetration. Appropriate selection of the RP Series Fan best suited for the sub-slab material can improve the slab coverage. The RP140/145/155 are best suited for general purpose use. The RP260 can be used where additional airflow is required and the RP265/380 is best suited for large slab, high airflow applications. Additional suction points can be added as required. It is recommended that a small pit (5 to 10 gallons in size) be created below the slab at each suction hole.

1.6 CONDENSATION & DRAINAGE

Condensation is formed in the piping of a mitigation system when the air in the piping is chilled below its dew point. This can occur at points where the system piping goes through unheated space such as an attic, garage or outside. The system design must provide a means for water to drain back to a slab hole to remove the condensation. The RP Series Fan **MUST** be mounted vertically plumb and level, with the outlet pointing up for proper drainage through the fan. Avoid mounting the fan in any orientation that will allow water to accumulate inside the fan housing. The RP Series Fans are **NOT** suitable for underground burial.

For RP Series Fan piping, the following table provides the minimum recommended pipe diameter and pitch under several system conditions.

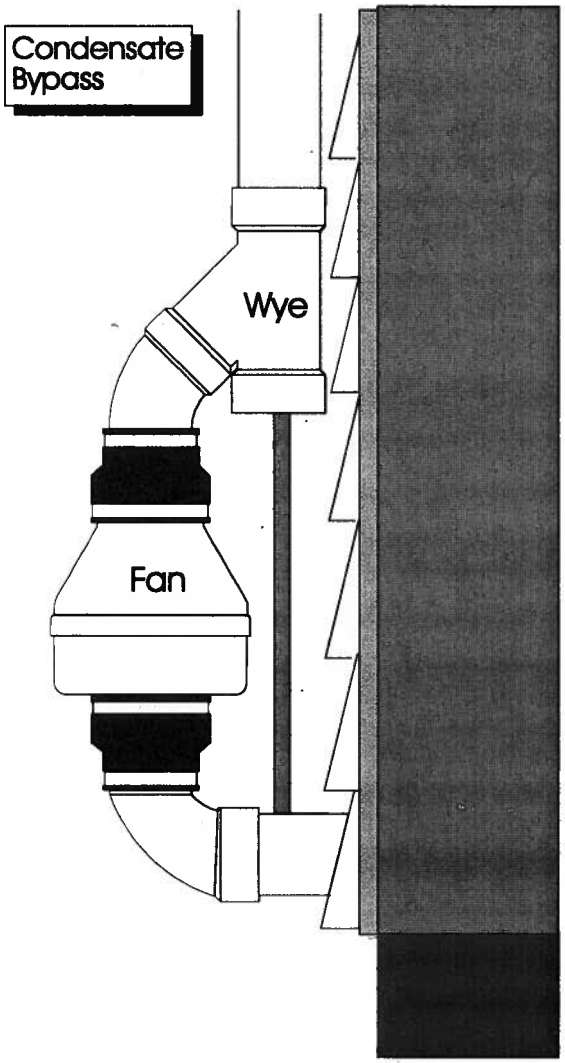
Pipe Dia.	Minimum Rise per Ft of Run*				
	@25 CFM	@50 CFM	@100 CFM	@200 CFM	@300 CFM
6"	-	3/16	1/4	3/8	3/4
4"	1/8	1/4	3/8	2 3/8	-
3"	1/4	3/8	1 1/2	-	-



*Typical RP1xx/2xx Series Fan operational flow rate is 25 - 90 CFM 0n 3" and 4" pipe. (For more precision, determine flow rate by measuring Static Pressure, in WC, and correlate pressure to flow in the performance chart in the addendum.)

Under some circumstances in an outdoor installation a condensate bypass should be installed in the outlet ducting as shown. This may be particularly true in cold climate installations which require long lengths of outlet ducting or where the outlet ducting is likely to produce large amounts of condensation because of high soil moisture or outlet duct material. Schedule 20 piping and other thin-walled plastic ducting and Aluminum downspout will normally produce much more condensation than Schedule 40 piping.

The bypass is constructed with a 45 degree Wye fitting at the bottom of the outlet stack. The bottom of the Wye is capped and fitted with a tube that connects to the inlet piping or other drain. The condensation produced in the outlet stack is collected in the Wye fitting and drained through the bypass tube. The bypass tubing may be insulated to prevent freezing.



1.7 "SYSTEM ON" INDICATOR

A properly designed system should incorporate a "System On" Indicator for affirmation of system operation. A manometer, such as a U-Tube, or a vacuum alarm is recommended for this purpose.

1.8 ELECTRICAL WIRING

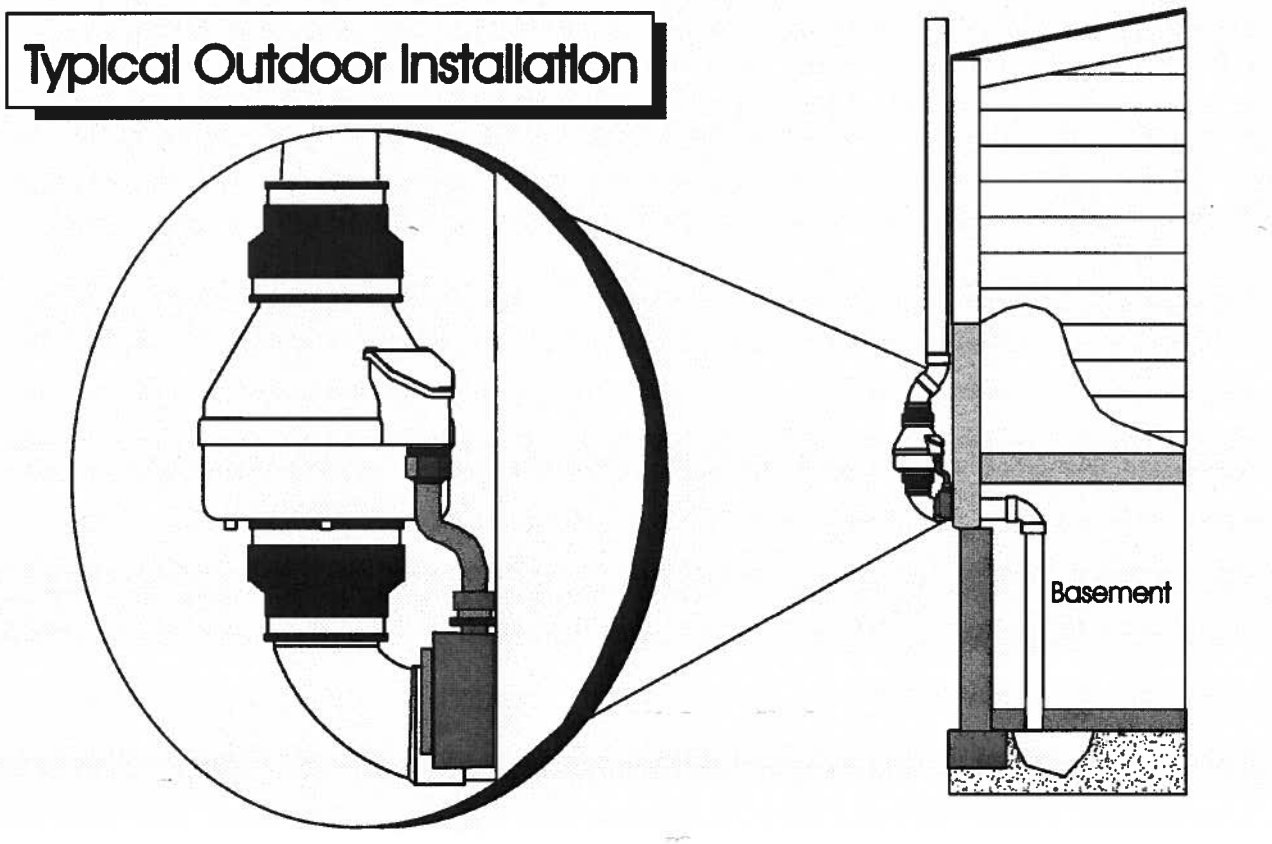
The RP Series Fans operate on standard 120V 60 Hz. AC. All wiring must be performed in accordance with the National Fire Protection Association's (NFPA)"National Electrical Code, Standard #70"-current edition for all commercial and industrial work, and state and local building codes. All wiring must be performed by a qualified and licensed electrician. Outdoor installations require the use of a U.L. listed watertight conduit. Ensure that all exterior electrical boxes are outdoor rated and properly caulked to prevent water penetration into the box. A means, such as a weep hole, is recommended to drain the box.

1.9 SPEED CONTROLS

The RP Series Fans are rated for use with electronic speed controls ,however , they are generally not recommended.

2.0 INSTALLATION

The RP Series Fan can be mounted indoors or outdoors. (It is suggested that EPA recommendations be followed in choosing the fan location.) The RP Series Fan may be mounted directly on the system piping or fastened to a supporting structure by means of optional mounting bracket.



2.1 MOUNTING

Mount the RP Series Fan vertically with outlet up. Insure the unit is plumb and level. When mounting directly on the system piping assure that the fan does not contact any building surface to avoid vibration noise.

2.2 MOUNTING BRACKET (optional)

The RP Series fan may be optionally secured with the RadonAway P/N 25007-2 (25033 for RP385) mounting bracket. Foam or rubber grommets may also be used between the bracket and mounting surface for vibration isolation.

2.3 SYSTEM PIPING

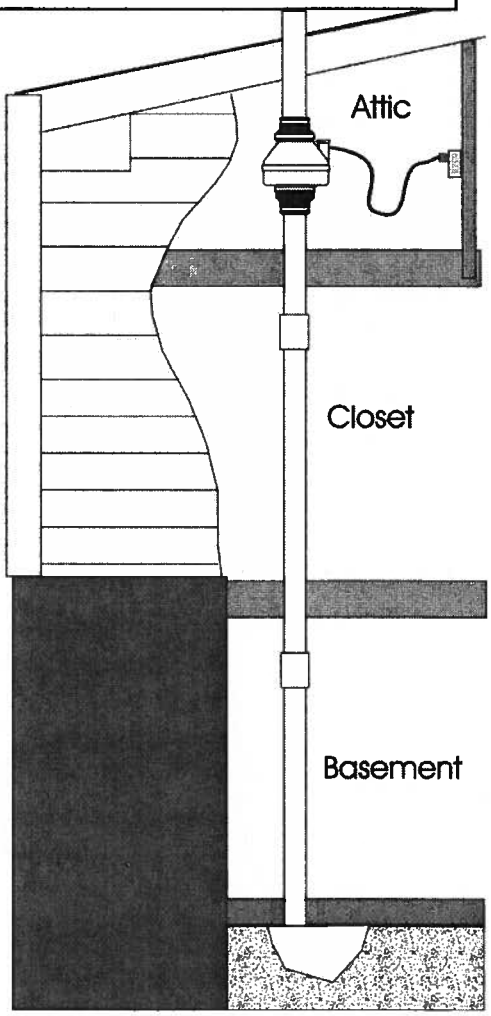
Complete piping run, using flexible couplings as means of disconnect for servicing the unit and vibration isolation.

2.4 ELECTRICAL CONNECTION

Connect wiring with wire nuts provided, observing proper connections:

Fan Wire	Connection
Green	Ground
Black	AC Hot
White	AC Common

Typical Indoor Installation



2.5 VENT MUFFLER (optional)

Install the muffler assembly in the selected location in the outlet ducting. Solvent weld all connections. The muffler is normally installed at the end of the vent pipe.

2.6 OPERATION CHECKS

_____ **Verify** all connections are tight and **leak-free**.

_____ **Insure** the RP Series Fan and all ducting is secure and vibration-free.

_____ **Verify** system vacuum pressure with manometer. **Insure** vacuum pressure is **less than** maximum recommended operating pressure

(Based on sea-level operation, at higher altitudes reduce by about 4% per 1000 Feet.)

(Further reduce Maximum Operating Pressure by 10% for High Temperature environments)

See Product Specifications. If this is exceeded, increase the number of suction points.

_____ **Verify Radon levels by testing to EPA protocol.**

RP SERIES PRODUCT SPECIFICATIONS

The following chart shows fan performance for the RP Series Fan:

Typical CFM Vs Static Pressure "WC									
	0"	.25"	.5"	.75"	1.0"	1.25"	1.5"	1.75"	2.0"
RP140	134	101	68	10	-	-	-	-	-
RP145	173	152	132	115	94	73	55	37	-
RP155	185	161	137	115	94	73	55	37	-
RP260	275	225	180	140	105	70	20	-	-
RP265	327	302	260	230	207	176	139	101	57
RP380*	420	375	330	260	220	170	130	70	30

* Tested with 6" inlet and discharge pipe.

Power Consumption 120 VAC, 60Hz 1.5 Amp Maximum		Maximum Recommended Operating Pressure* (Sea Level Operation)**	
RP140	14 - 20 watts	RP140	0.8" W.C.
RP145	37 - 71 watts	RP145	1.7" W.C.
RP155	37 - 75 watts	RP155	1.7" W.C.
RP260	52 - 72 watts	RP260	1.5" W.C.
RP265	86 - 140 watts	RP265	2.2" W.C.
RP380	95 - 152 watts	RP380	2.0" W.C.

**Reduce by 10% for High Temperature Operation*
***Reduce by 4% per 1000 feet of altitude*

	Size	Weight	Inlet/Outlet
RP140	8.5H" x 9.7" Dia.	5.5 lbs.	4.5" OD (4.0" PVC Sched 40 size compatible)
RP145	8.5H" x 9.7" Dia.	5.5 lbs.	4.5" OD (4.0" PVC Sched 40 size compatible)
RP155	8.5H" x 9.7" Dia.	5.5 lbs.	5.0" OD
RP260	8.6H" x 11.75" Dia.	5.5 lbs.	6.0" OD
RP265	8.6H" x 11.75" Dia.	6.5 lbs.	6.0" OD
RP380	10.53H" x 13.41" Dia.	11.5 lbs.	8.0" OD

Recommended ducting: 3" or 4" RP1xx/2xx, 6" RP380, Schedule 20/40 PVC Pipe

Mounting: Mount on the duct pipe or with optional mounting bracket.

Storage temperature range: 32 - 100 degrees F.

Normal operating temperature range: -20 - 120 degrees F.

Maximum inlet air temperature: 80 degrees F.

Continuous Duty

Class B Insulation

Thermally protected

3000 RPM

Rated for Indoor or Outdoor Use

LISTED Electric Fan ETL® Tested to UL Std. 507

77728

IMPORTANT INSTRUCTIONS TO INSTALLER

Inspect the GP/XP/XR/RP Series Fan for shipping damage within 15 days of receipt. Notify **RadonAway of any damages immediately**. Radonaway is not responsible for damages incurred during shipping. However, for your benefit, Radonaway does insure shipments.

There are no user serviceable parts inside the fan. **Do not attempt to open.** Return unit to factory for service.

Install the GP/XP/XR/RP Series Fan in accordance with all EPA standard practices, and state and local building codes and state regulations.

WARRANTY

Subject to any applicable consumer protection legislation, RadonAway warrants that the GPX01/XP/XR/RP Series Fan (the "Fan") will be free from defects in materials and workmanship for a period of 90 days from the date of purchase (the "Warranty Term").

RadonAway will replace any Fan which fails due to defects in materials or workmanship. The Fan must be returned (at Owner's cost) to the RadonAway factory. Any Fan returned to the factory will be discarded unless the Owner provides specific instructions along with the Fan when it is returned regardless of whether or not the Fan is actually replaced under this warranty. Proof of purchase must be supplied upon request for service under this Warranty.

This Warranty is contingent on installation of the Fan in accordance with the instructions provided. This Warranty does not apply where any repairs or alterations have been made or attempted by others, or if the unit has been abused or misused. Warranty does not cover damage in shipment unless the damage is due to the negligence of RadonAway.

5 YEAR EXTENDED WARRANTY WITH PROFESSIONAL INSTALLATION.

RadonAway will extend the Warranty Term of the fan to 5 years from date of manufacture if the Fan is installed in a professionally designed and professionally installed radon system or installed as a replacement fan in a professionally designed and professionally installed radon system. Proof of purchase and/or proof of professional installation may be required for service under this warranty. Outside the Continental United States and Canada the extended Warranty Term is limited to one (1) year from the date of manufacture.

RadonAway is not responsible for installation, removal or delivery costs associated with this Warranty.

EXCEPT AS STATED ABOVE, THE GPx01/XP/XR/RP SERIES FANS ARE PROVIDED WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

IN NO EVENT SHALL RADONAWAY BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF, OR RELATING TO, THE FAN OR THE PERFORMANCE THEREOF. RADONAWAY'S AGGREGATE LIABILITY HEREUNDER SHALL NOT IN ANY EVENT EXCEED THE AMOUNT OF THE PURCHASE PRICE OF SAID PRODUCT. THE SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY SHALL BE THE REPAIR OR REPLACEMENT OF THE PRODUCT, TO THE EXTENT THE SAME DOES NOT MEET WITH RADONAWAY'S WARRANTY AS PROVIDED ABOVE.

For service under this Warranty, contact RadonAway for a Return Material Authorization (RMA) number and shipping information. No returns can be accepted without an RMA. If factory return is required, the customer assumes all shipping cost to and from factory.

RadonAway
3 Saber Way
Ward Hill, MA 01835
TEL. (978) 521-3703
FAX (978) 521-3964

Record the following information for your records:

Serial No._____
Purchase Date_____

RadonAway Ward Hill, MA IN014 Rev F

XP/GP/XR Series Fan Installation Instructions

Please Read And Save These Instructions.

DO NOT CONNECT POWER SUPPLY UNTIL FAN IS COMPLETELY INSTALLED. MAKE SURE ELECTRICAL SERVICE TO FAN IS LOCKED IN "OFF" POSITION. DISCONNECT POWER BEFORE SERVICING FAN.

1. **WARNING!** Do not use fan in hazardous environments where fan electrical system could provide ignition to combustible of flammable materials.

2. **WARNING!** Do not use fan to pump explosive or corrosive gases.

3. **WARNING!** Check voltage at the fan to insure it corresponds with nameplate.

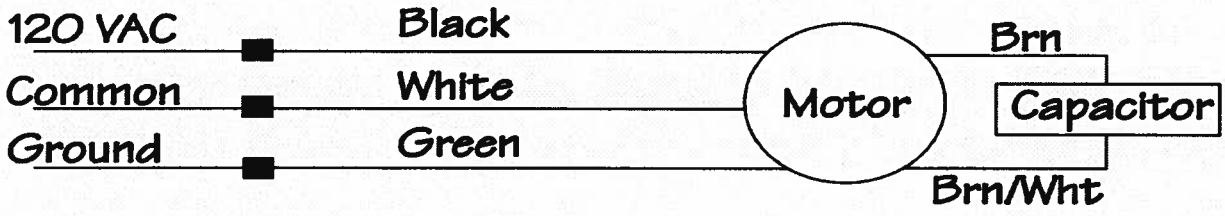
4. **WARNING!** Normal operation of this device may affect the combustion airflow needed for safe operation of fuel burning equipment. Check for possible backdraft conditions on all combustion devices after installation.

5. **NOTICE!** There are no user serviceable parts located inside the fan unit. **Do NOT attempt to open.** Return unit to the factory for service.

6. All wiring must be performed in accordance with the National Fire Protection Association's (NFPA)"National Electrical Code, Standard #70"-current edition for all commercial and industrial work, and state and local building codes. All wiring must be performed by a qualified and licensed electrician.

7. **WARNING!** Do not leave fan unit installed on system piping without electrical power for more than 48 hours. Fan failure could result from this non-operational storage.

DynaVac GP/XP/XR/RP Series Fan Wiring Diagram



RadonAway™

INSTALLATION INSTRUCTION IN014 Rev F

DynaVac - XP/XR Series		DynaVac - GP Series	
XP101	p/n 23008-1,-2	GP201	p/n 23007-1
XP151	p/n 23010-1,-2	GP301	p/n 23006-1,-2
XP201	p/n 23011-1,-2	GP401	p/n 23009-1
XR161	p/n 23018-1,-2	GP501	p/n 23005-1,-2
XR261	p/n 23019-1,-2		

1.0 SYSTEM DESIGN CONSIDERATIONS

1.1 INTRODUCTION

The DynaVac GP/XP/XR Series Radon Fans are intended for use by trained, professional Radon mitigators. The purpose of this instruction is to provide additional guidance for the most effective use of a DynaVac Fan. This instruction should be considered as a supplement to EPA standard practices, state and local building codes and state regulations. In the event of a conflict, those codes, practices and regulations take precedence over this instruction.

1.2 ENVIRONMENTALS

The GP/XP/XR Series Fans are designed to perform year-round in all but the harshest climates without additional concern for temperature or weather. For installations in an area of severe cold weather, please contact RadonAway for assistance. When not in operation, the fan should be stored in an area where the temperature is never less than 32 degrees F. or more than 100 degrees F.

1.3 ACOUSTICS

The GP/XP/XR Series Fan, when installed properly, operates with little or no noticeable noise to the building occupants. The velocity of the outgoing air should be considered in the overall system design. In some cases the "rushing" sound of the outlet air may be disturbing. In these instances, the use of a RadonAway Exhaust Muffler is recommended.

1.4 GROUND WATER

In the event that a temporary high water table results in water at or above slab level, water may be drawn into the riser pipes thus blocking air flow to the GP/XP/XR Series Fan. The lack of cooling air may result in the fan cycling on and off as the internal temperature rises above the thermal cutoff and falls upon shutoff. Should this condition arise, it is recommended that the fan be turned off until the water recedes allowing for return to normal operation.

1.5 SLAB COVERAGE

The GP/XP/XR Series Fan can provide coverage up to 2000+ sq. ft. per slab penetration. This will primarily depend on the sub-slab material in any particular installation. In general, the tighter the material, the smaller the area covered per penetration. Appropriate selection of the GP/XP/XR Series Fan best suited for the sub-slab material can improve the slab coverage. The GP & XP series have a wide range of models to choose from to cover a wide range of subslab material. The higher static suction fans are generally used for tighter subslab materials. The XR Series is specifically designed for high flow applications such as stone/gravel and drain tile. Additional suction points can be added as required. It is recommended that a small pit (5 to 10 gallons in size) be created below the slab at each suction hole.

1.6 CONDENSATION & DRAINAGE

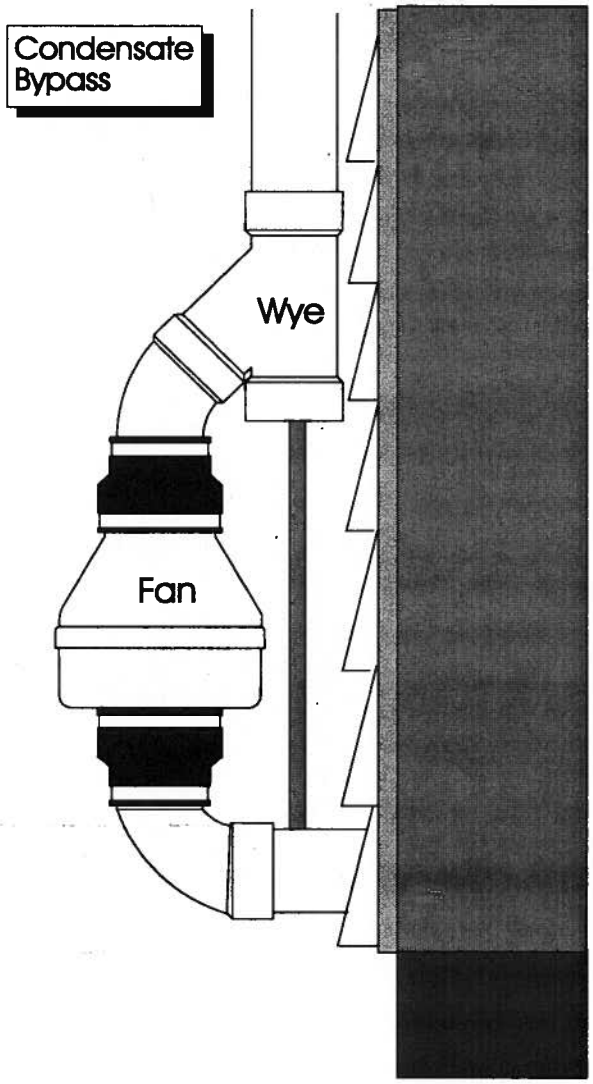
Condensation is formed in the piping of a mitigation system when the air in the piping is chilled below its dew point. This can occur at points where the system piping goes through unheated space such as an attic, garage or outside. The system design must provide a means for water to drain back to a slab hole to remove the condensation. The GP/XP/XR Series Fan **MUST** be mounted vertically plumb and level, with the outlet pointing up for proper drainage through the fan. Avoid mounting the fan in any orientation that will allow water to accumulate inside the fan housing. The GP/XP/XR Series Fans are **NOT** suitable for underground burial.

For GP/XP/XR Series Fan piping, the following table provides the minimum recommended pipe diameter and pitch under several system conditions.

Pipe Dia.	Minimum Rise per Foot of Run* @25 CFM	@50 CFM	@100 CFM
4"	1/8"	1/4"	3/8"
3"	1/4"	3/8"	1 1/2"

*Typical GP/XP/XR Series Fan operational flow rate is 25 - 90 CFM. (For more precision, determine flow rate by using the chart in the addendum.)

Under some circumstances in an outdoor installation a condensate bypass should be installed in the outlet ducting as shown. This may be particularly true in cold climate installations which require long lengths of outlet ducting or where the outlet ducting is likely to produce large amounts of condensation because of high soil moisture or outlet duct material. Schedule 20 piping and other thin-walled plastic ducting and Aluminum downspout will normally produce much more condensation than Schedule 40 piping.



The bypass is constructed with a 45 degree Wye fitting at the bottom of the outlet stack. The bottom of the Wye is capped and fitted with a tube that connects to the inlet piping or other drain. The condensation produced in the outlet stack is collected in the Wye fitting and drained through the bypass tube. The bypass tubing may be insulated to prevent freezing.

1.7 "SYSTEM ON" INDICATOR

A properly designed system should incorporate a "System On" Indicator for affirmation of system operation. A manometer, such as a U-Tube, or a vacuum alarm is recommended for this purpose.

1.8 ELECTRICAL WIRING

The GP/XP/XR Series Fans operate on standard 120V 60 Hz. AC. All wiring must be performed in accordance with the National Fire Protection

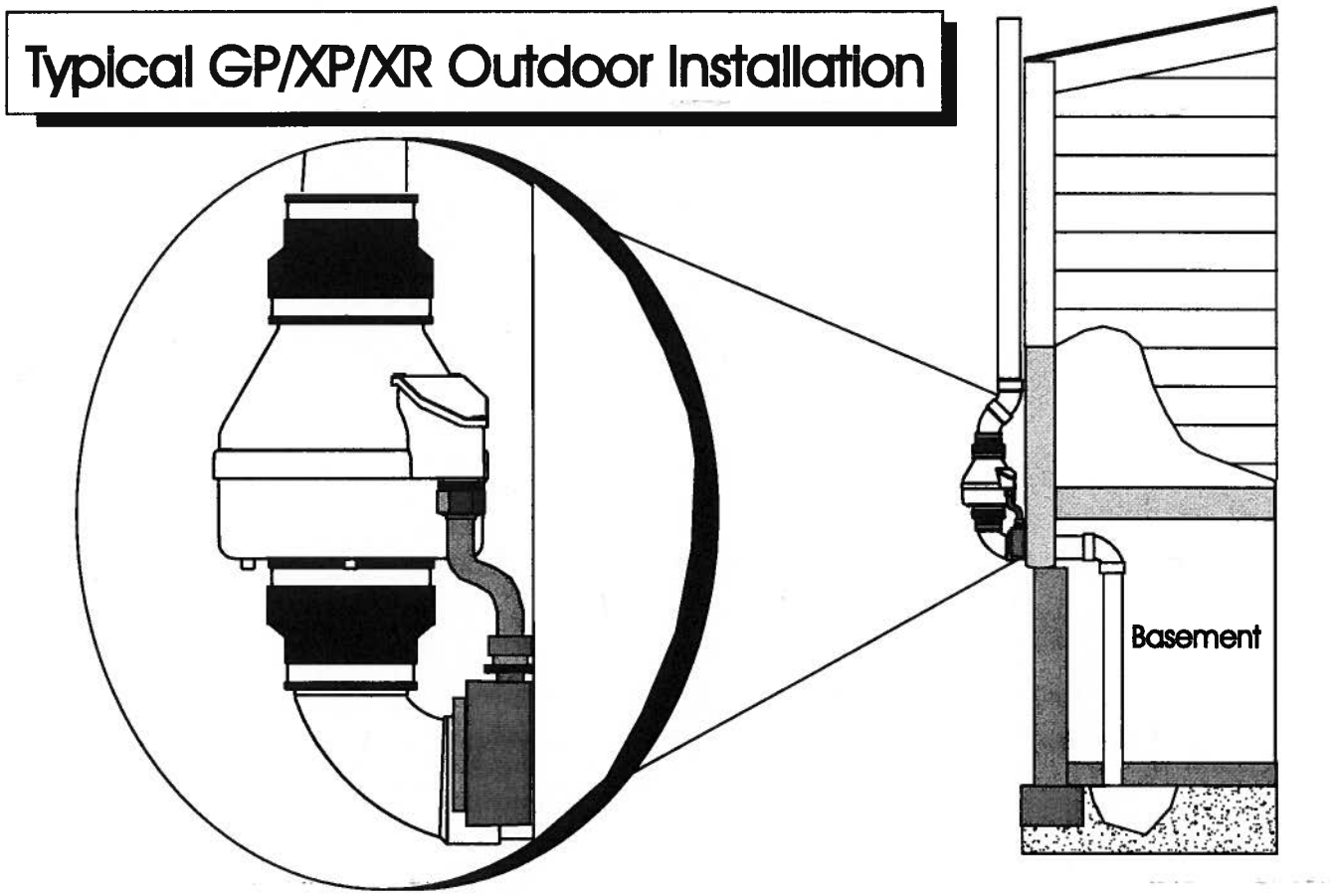
Association's (NFPA)"National Electrical Code, Standard #70"-current edition for all commercial and industrial work, and state and local building codes. All wiring must be performed by a qualified and licensed electrician. Outdoor installations require the use of a U.L. listed watertight conduit.

1.9 SPEED CONTROLS

The GP/XP/XR Series Fans are rated for use with electronic speed controls ,however, they are generally not recommended.

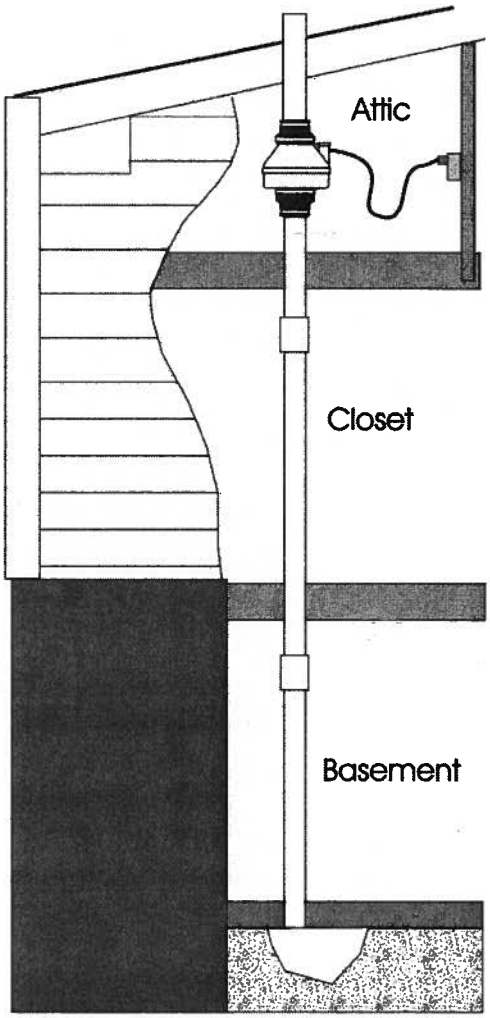
2.0 INSTALLATION

The GP/XP/XR Series Fan can be mounted indoors or outdoors. (It is suggested that EPA recommendations be followed in choosing the fan location.) The GP/XP/XR Series Fan may be mounted directly on the system piping or fastened to a supporting structure by means of optional mounting bracket.



2.1 MOUNTING

Mount the GP/XP/XR Series Fan vertically with outlet up. Insure the unit is plumb and level. When mounting directly on the system piping assure that the fan does not contact any building surface to avoid vibration noise.



2.2 MOUNTING BRACKET (optional)

The GP/XP/XR Series fan may be optionally secured with the integral mounting bracket on the GP Series fan or with RadonAway P/N 25007-2 mounting bracket for an XP/XR Series fan. Foam or rubber grommets may also be used between the bracket and mounting surface for vibration isolation.

2.3 SYSTEM PIPING

Complete piping run, using flexible couplings as means of disconnect for servicing the unit and vibration isolation.

2.4 ELECTRICAL CONNECTION

Connect wiring with wire nuts provided, observing proper connections:

Fan Wire	Connection
Green	Ground
Black	AC Hot
White	AC Common

2.5 VENT MUFFLER (optional)

Install the muffler assembly in the selected location in the outlet ducting. Solvent weld all connections. The muffler is normally installed at the end of the vent pipe.

2.6 OPERATION CHECKS

_____ **Verify** all connections are tight and **leak-free**.

_____ **Insure** the GP/XP/XR Series Fan and all ducting is secure and vibration-free.

_____ **Verify** system vacuum pressure with manometer. **Insure** vacuum pressure is **less than** maximum recommended operating pressure

(Based on sea-level operation, at higher altitudes reduce by about 4% per 1000 Feet.)

(Further reduce Maximum Operating Pressure by 10% for High Temperature environments)

See Product Specifications. If this is exceeded, increase the number of suction points.

_____ **Verify Radon levels by testing to EPA protocol.**

XP/XR SERIES PRODUCT SPECIFICATIONS

The following chart shows fan performance for the XP & XR Series Fan:

Typical CFM Vs Static Suction "WC									
	0"	.25"	.5"	.75"	1.0"	1.25"	1.5"	1.75"	2.0"
XP101	125	118	90	56	5	-	-	-	-
XP151	180	162	140	117	78	46	10	-	-
XP201	150	130	110	93	74	57	38	20	-
XR161	215	175	145	105	75	45	15	-	-
XR261	250	215	185	150	115	80	50	20	-

Maximum Recommended Operating Pressure*		
XP101	0.9" W.C.	(Sea Level Operation)**
XP151	1.3" W.C.	(Sea Level Operation)**
XP201	1.7" W.C.	(Sea Level Operation)**
XR161	1.3" W.C.	(Sea Level Operation)**
XR261	1.6" W.C.	(Sea Level Operation)**

**Reduce by 10% for High Temperature Operation*
***Reduce by 4% per 1000 feet of altitude*

Power Consumption @ 120 VAC	
XP101	40 - 49 watts
XP151	45 - 60 watts
XP201	45 - 66 watts
XR161	48 - 75 watts
XR261	65 - 105 watts

XP Series Inlet/Outlet: 4.5" OD (4.0" PVC Sched 40 size compatible)
XR Series Inlet/Outlet: 5.875" OD
Mounting: Mount on the duct pipe or with optional mounting bracket.
Recommended ducting: 3" or 4" Schedule 20/40 PVC Pipe
Storage temperature range: 32 - 100 degrees F.
Normal operating temperature range: -20 - 120 degrees F.
Maximum inlet air temperature: 80 degrees F.

Size: 9.5H" x 8.5" Dia. **Weight**: 6 lbs. (XR261 - 7 lbs)

Continuous Duty **Thermally protected**

Class B Insulation **3000 RPM**

Residential Use Only **Rated for Indoor or Outdoor use**

LISTED Electric Fan ETL® Tested to UL Std. 507
77728

GP SERIES PRODUCT SPECIFICATIONS

The following chart shows fan performance for the GPx01 Series Fan:

Typical CFM Vs Static Suction "WC							
	1.0"	1.5"	2.0"	2.5"	3.0"	3.5"	4.0"
GP501	95	87	80	70	57	30	5
GP401	93	82	60	38	12	-	-
GP301	92	77	45	10	-	-	-
GP201	82	58	5	-	-	-	-

Maximum Recommended Operating Pressure*		
GP501	3.8" W.C.	(Sea Level Operation)**
GP401	3.0" W.C.	(Sea Level Operation)**
GP301	2.4" W.C.	(Sea Level Operation)**
GP201	1.8" W.C.	(Sea Level Operation)**

**Reduce by 10% for High Temperature Operation*
***Reduce by 4% per 1000 feet of altitude*

Power Consumption @ 120 VAC	
GP501	70 - 140 watts
GP401	60 - 110 watts
GP301	55 - 90 watts
GP201	40 - 60 watts

Inlet/Outlet: 3.5" OD (3.0" PVC Sched 40 size compatible)

Mounting: Fan may be mounted on the duct pipe or with integral flanges.

Weight: 12 lbs.

Size: 13H" x 12.5" x 12.5"

Recommended ducting: 3" or 4" Schedule 20/40 PVC Pipe

Storage temperature range: 32 - 100 degrees F.

Normal operating temperature range: -20 - 120 degrees F.

Maximum inlet air temperature: 80 degrees F.

Continuous Duty

Class B Insulation

3000 RPM

Thermally protected

Rated for Indoor or Outdoor Use

GP301C / GP501C Rated for Commercial Use

LISTED Electric Fan ETL® Tested to UL Std. 507
77728

IMPORTANT INSTRUCTIONS TO INSTALLER

Inspect the GPx01/XP/XR Series Fan for shipping damage within 15 days of receipt. Notify RadonAway of any damages immediately. Radonaway is not responsible for damages incurred during shipping. However, for your benefit, Radonaway does insure shipments.

There are no user serviceable parts inside the fan. **Do not attempt to open.** Return unit to factory for service.

Install the GPx01/XP/XR Series Fan in accordance with all EPA standard practices, and state and local building codes and state regulations.

WARRANTY

Subject to any applicable consumer protection legislation, RadonAway warrants that the GPX01/XP/XR/RP Series Fan (the "Fan") will be free from defects in materials and workmanship for a period of 90 days from the date of purchase (the "Warranty Term").

RadonAway will replace any Fan which fails due to defects in materials or workmanship. The Fan must be returned (at Owner's cost) to the RadonAway factory. Any Fan returned to the factory will be discarded unless the Owner provides specific instructions along with the Fan when it is returned regardless of whether or not the Fan is actually replaced under this warranty. Proof of purchase must be supplied upon request for service under this Warranty.

This Warranty is contingent on installation of the Fan in accordance with the instructions provided. This Warranty does not apply where any repairs or alterations have been made or attempted by others, or if the unit has been abused or misused. Warranty does not cover damage in shipment unless the damage is due to the negligence of RadonAway.

5 YEAR EXTENDED WARRANTY WITH PROFESSIONAL INSTALLATION.

RadonAway will extend the Warranty Term of the fan to 5 years from date of manufacture if the Fan is installed in a professionally designed and professionally installed radon system or installed as a replacement fan in a professionally designed and professionally installed radon system. Proof of purchase and/or proof of professional installation may be required for service under this warranty. Outside the Continental United States and Canada the extended Warranty Term is limited to one (1) year from the date of manufacture.

RadonAway is not responsible for installation, removal or delivery costs associated with this Warranty.

EXCEPT AS STATED ABOVE, THE GPx01/XP/XR/RP SERIES FANS ARE PROVIDED WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

IN NO EVENT SHALL RADONAWAY BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF, OR RELATING TO, THE FAN OR THE PERFORMANCE THEREOF. RADONAWAY'S AGGREGATE LIABILITY HEREUNDER SHALL NOT IN ANY EVENT EXCEED THE AMOUNT OF THE PURCHASE PRICE OF SAID PRODUCT. THE SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY SHALL BE THE REPAIR OR REPLACEMENT OF THE PRODUCT, TO THE EXTENT THE SAME DOES NOT MEET WITH RADONAWAY'S WARRANTY AS PROVIDED ABOVE.

For service under this Warranty, contact RadonAway for a Return Material Authorization (RMA) number and shipping information. No returns can be accepted without an RMA. If factory return is required, the customer assumes all shipping cost to and from factory.

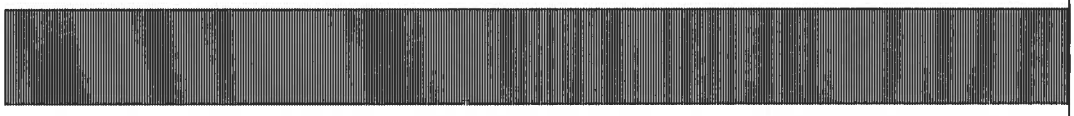
RadonAway
3 Saber Way
Ward Hill, MA 01835
TEL. (978) 521-3703
FAX (978) 521-3964

Record the following information for your records:

Serial No._____
Purchase Date_____

New York State Department of Environmental Conservation
Immediate Investigation Summary Report

Air Sampling Event #3



0266-377 / BUF

MALCOLM PIRNIE

con-test® ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

39 SPRUCE ST
EAST LONGMEADOW, MA 01028

AIR SAMPLE CHAIN OF CUSTODY RECORD

LIMS - 23619

Company Name: Malcolm Pirnie Inc.
Address: Suite 600
50 Fountain Plaza
Buffalo NY 14202
Attention: Attn: Jim Richert
Project Location: Buffalo NY
Sampled By: Dwight Symonds

Telephone: (716) 667-0900
Project # 0266377
Client PO # _____

DATA DELIVERY (check one):
☐FAX ☐EMAIL ☐WEBSITE CLIENT
Fax # : _____
Email: _____
Format: ☐ EXCEL ☐ PDF ☐ GIS KEY ☐ OTHER___

Proposal Provided? (For Billing purposes)
☐ yes _____ proposal date

TO-15

Field ID	Sample Description	Media	Lab #	Date Sampled Start Date/Time	Date Sampled Stop Date/Time	ONLY USE WHEN USING PUMPS: Total Minutes Sampled	Flow Rate M^3/Min. or L / Min.	Volume Liters or M^3	Matrix Code*	" Hg Initial pressure	" Hg Final pressure	Lab Receipt pressure	Summa Canister ID	Flow Controller ID
	Franklin SS	AIR	09806189	1045 2/23/09	1013 2/24/09					30.0	10.0		1697	3043
	Franklin BA1		90	1045	1109					29.5	10		1315	3084
	Franklin BA2		91	1051	0902					29.5	9.5		1226	3266
	Franklin BA3		92	1058	0946					30.0	9.0		1121	3067
	Franklin OA		93	1106	0929					26.0	7.0		1723	3103

2-25-9

Laboratory Comments: Indoor & Ambient/Urban Chloride .25ug/m3 TCE PCE - 1,1 TCA

CLIENT COMMENTS: Did not use spare canister.

Relinquished by: (signature)	Date/Time:
Jim Richert	2/24/9 1030
Received by: (signature)	Date/Time:
	2/26/09 1345
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround **
☐ 7-Day
☒ 10-Day
☒ Other 5 day
RUSH *
☐ *24-Hr ☐ *48-Hr
☐ *72-Hr ☐ *4-Day
*Approval Required

Special Requirements
Regulations: _____
Data Enhancement/RCP? ☐ Y ☐ N
Enhanced Data Package ☐ Y ☐ N
(Surchage Applies)
Required Detection Limits: NY
Other: Category B

*Matrix Code:
SG= SOIL GAS
IA= INDOOR AIR
AMB=AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = other_____

**Media Codes:
S=summa can
TB=tedlar bag
P=PUF
T=tube
F= filter
C=cassette
O = Other_____

** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAC & WBE/DBE Certified

Please fill out completely, sign, date and retain the yellow copy for your record.
Summa canisters and flow controllers must be returned within 14 days of receipt or rental fees will apply.
Summa canisters will be retained for a minimum of 14 days after sampling date prior to cleaning.

2/23/09 267 Franklin st. 26° snow
0266377.

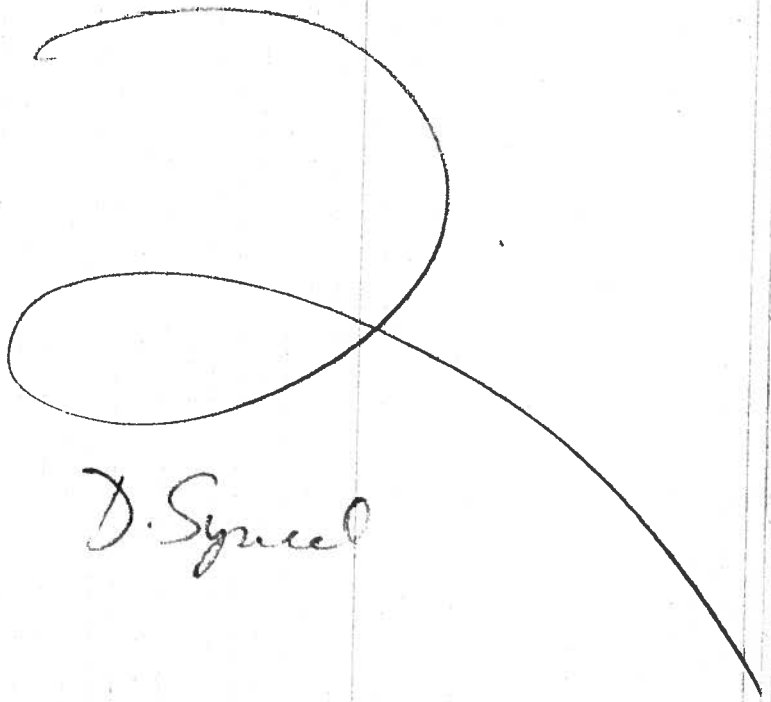
description of work - Sub slab / indoor / outdoor Air sampling

0910 - D. Symonds onsite
Jim Rockart onsite
0920 - Unload Equipt / Check locations
PID Background outside - 40-50 ppb
PID Background Appt. B1 - 90-115 ppb
0950 - Drill hole for Sub slab sampling
1000 - purge approx 400 mL from sub slab into Tedlar Bag
- PID Sub slab purge 734 ppb
PID Background in Boiler Room 100-128 ppb
1010 - photos taken of hole & purging method
1020 - Sealed tubing & Bucket using clay
1045 - Helium Test - Bucket - 99.2% } good seal
Tubing - 0 ppm
- Continue to set up for Sampling -

Sampling Info:

		Can #	Reg #
1045 -	Franklin SS 1	1697	3043
1045 -	Franklin BA 1	1315	3084
1051 -	Franklin BA 2	1226	3266
1058 -	Franklin BA 3	1121	3067
1106 -	Franklin OA	1723	3103

1115 - Second check of all sample canisters
- All checked out OK
1130 - load Equipment fill out COC
1200 - D. Symonds offsite



275 Franklin St. site
0266377
Feb. 24, 2009 -
Air sample retrieval

0900 Jim Richert (JR) arrives at 267 Franklin to retrieve 5 24-hr air samples.
Tony (maintenance) is on site

0902 JR checks BA2 in vacant apt. (B1) pressure is 9.3
shuts tank, removes regulator + caps tank

0906 JR reads BA3 (indoor air in boiler room) @ 9.0. shuts off tank, removes regulator + caps tank

0906 JR reads BA3 (from bedroom of occupied apt. #B2.)
Pressure is 9.0.
J.R. shuts off tank, removes regulator + caps tank

0912 Gene Melnyk of DEC arrives on site

0913 JR reads subslab air sample in boiler room @ 10.0.
JR shuts tank, removes regulator + caps tank

J. Richert 2-24-9

275 Franklin St.
0266377

Feb. 24 2009

0917 JR read pressure of BA1 indoor air in boiler room @ 10
JR shuts tank, removes regulator, caps tank.

0922 J.R. patches 1/2" diameter drill hole of concrete floor of boiler room using tube of concrete patch to satisfaction of Tony.

0929 J.R. + G.M. climb fire escape of building front to retrieve outdoor air sample (OA).
Pressure @ 9.0 - shuts tank

0935 JR removes regulator + caps tank.

0940 Pack all air canisters + supplies.

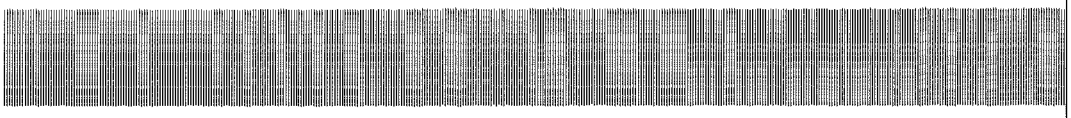
0942 J.R. returns set of 3 keys to Tony.

0945 J.R. + G.M. depart site. J.R. will ship samples to Con-Test today.

J. Richert 2-24-9

New York State Department of Environmental Conservation
Immediate Investigation Summary Report

Air Sampling Event #4



0266-377 / BUF

MALCOLM PIRNIE

Air - Chain of Custody Record & Analytical Service Request

Page 1 of 1

Columbia Analytical Services, Inc.
1 Mustard Street, Suite 250
Rochester, New York 14609-6925
Phone (585) 288-5380
Fax (585) 288-8475

Requested Turnaround Time in Business Days From Receipt, please circle
1 Day 2 Day 3 Day 4 Day 5 Day 10 Day-Standard

CAS Project No.

CAS Contact:

Company Name & Address (Reporting Information)
Malcolm Pirnie, Inc.

Project Name
275 Franklin ST. Site

Project Number
0266-377

Project Manager
Jim Richert

P.O. # / Billing Information
0266-377

Phone
716/667-6654

Fax
——0279

Email Address for Result Reporting
JRichert@Pirnie.com

Sampler (Print & Sign)
Jim Richert Jim Richert

Analysis Method and/or Analytes

VOCs TO-15

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID	Flow Controller ID	START Hg	9/14 Time	END Hg	9/15 Time	VOCs TO-15				Comments / Specific Instructions
267 Franklin-BA1		9-15-9	10:19	SLC 00032	FC 00719	-29	10:22	-6.0	10:19	X				Boiler Room
267 Franklin-BA2		"	1013	SLC 00103	FC 00716	-30	10:15	-3.5	10:13	X				APT. B2
267 Franklin-BA3		"	1018	SLC 00133	FC 00724	-29.5	10:25	-5.5	10:18	X				APT B1 (VACANT)
267 Franklin-OA		"	0958	SLC 00070	FC 00746	-29.5	10:28	-4.5	09:58	X				Outdoor Air

Jim Richert 9-16-09

Report Tier Levels - please select
Tier I - (Results/Default if not specified) ____ Tier III (CLP Forms Only) ____
Tier II (Results + QC) ____ Tier IV (Data Validation) X

EDD required (Yes) / No
Type: Excel EDD Units: ____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Jim Richert	9/15/9	1100	[illegible] CAS	9/16/09	10:15
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

R0905263
Malcolm Pirnie, Incorporated
276 Franklin Street site

275 Franklin St. site

59 0266-377 9/14/09

Air sampling @ 267 Franklin

255 Jim Richert (JR) and John Hilton (JH) of Malcolm Pirnie arrive at 267 Franklin St. Apt. Building

956 Gene Melnyk of DEC arrives.

000 Patrick of building management arrives & unlocks front doors for access & doors to boiler room + Vacant APT #B2

010 Dale Bless (tenant of B2) arrives to give access to sample air in his bedroom.

015 start sample in APT B2. (BA2) can# 00103 Reg# 00716 init pressure -30 Hg

022 BA1 Basement can# 00032 Reg# 00719 initial pressure -29.0

025 collect BA3 in Vacant APT (B1) can# 00133, Reg# 00724, init press = -29.5 Hg

028 collect outdoor air sample on top of Entrance overhang. can# 00070, Reg# 00746, init pressure -22.5 Hg

035 Patrick leaves doors

037 Pirnie, DEC & Patrick depart site

275 Franklin St. site

JOB# 0266-377 9-15-09 60

Retrieval of 4 Air samples @ 267 Franklin

0955 Jim Richert (JR) and John Hilton (JH) of Malcolm Pirnie arrive @ 267 Franklin St. Apt. Building to retrieve 4 summa canisters placed yesterday.

Weather: mostly sunny 60° F wind calm

0955 Gene Melnyk of DEC arrives onsite

1010 Dale Bless - Apt B2 Tenant arrives & grants access to sample BA2 press -3.5

0958 collect OA sample pressure is -4.5 Hg

1015 collect BA3 in Vacant Apt. pressure = -5.5 Hg

1019 collect sample BA1 from Boiler Room. Pressure = -6.0 Hg

1025 JR & J.H. Package & mailer

New York State Department of Environmental Conservation
Immediate Investigation Summary Report

Appendix B

Borehole and Well Construction Logs

MALCOLM PIRNIE

MALCOLM PIRNIE	TEST BORING LOG	BORING No.MW-OS-21D

PROJECT **275 Franklin St**	LOCATION **Buffalo NY**				SHEET **1** OF **3**	
CLIENT **NYSDEC**					PROJECT No. **0266377**	
DRILLING CONTRACTOR					MEAS. PT. ELEV.	
PURPOSE **MW Installation**					GROUND ELEV.	
WELL MATERIAL					DATUM	
DRILLING METHOD(S)		SAMPLE	CORE	CASING	DATE STARTED **5/12/09**	
DRILL RIG TYPE **D-50**	TYPE				DATE FINISHED **5/12/09**	
GROUND WATER DEPTH **12.0'**	DIA.	"			DRILLER **Larry Schroeder**	
MEASURING POINT	WEIGHT	#			PIRNIE STAFF **Dwight Symonds**	
DATE OF MEASUREMENT	FALL	"				

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. DEPTH	WELL Constr.	REMARKS
					cut 24" circular hole through asphalt and course gravel			
2					hand cleared - loose med brown fine sand	1.0		
						3.0		
4								
	1.0	11 12	0.9		very loose med brown fine sand (quartz)	5.0		dry
6	1.5	17 16 18 20	2.0		loose med/dark brown gray fine sand	6.0		dry
8	1.2	11 17 35 62	0.3		firm to dense med gray brown fine sand w/ trace silt	8.0		
10	1.6	14 40 50/4	0.2		dense med gray brown fine sand w/ trace silt	10.0		moist
12	1.3	10 16 25 25	0.0		loose med/dark gray med sand w/ trace sub round gravel ~0.1" diameter	12.0		▼ wet
14	1.8	10 12 17 22	0.0		very loose med gray med/coarse sand	14.0		wet
16	1.6	3 2 6 12	0.1		loose med/dark gray med/coarse sand w/ trace fine sand	16.0		saturated
18	1.8	6 12 17 20	0.4		loose med brown gray fine to med sand	18.0		saturated soil sample collected 18-20'

MALCOLM PIRNIE	TEST BORING LOG	BORING No.MW-OS-21D
PROJECT **275 Franklin St**	LOCATION **Buffalo NY**	SHEET **2** OF **3**
CLIENT **NYSDEC**		PROJECT No. **0266377**

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
					med dense med brown fine to med sand	20.0		saturated
	1.8	3 6 8 11	0.0					
22					very loose med/dark brown fine sand w/ med sand and silt	22.0		saturated
	1.8	2 5	0.0					
24					loose med/light brown fine sand w/trace silt	24.0		saturated
	1.7	2 2 8 5	0.0					
26					loose/stiff med brown fine sand	26.0		moist
	1.9	5 6 6 9	0.0					
28					very loose med/brown fine sand	28.0		saturated
	1.0	1 3 2 4	0.0					
30					loose/stiff med brown/gray fine sand	30.0		wet
	1.4	3 1 2 14	0.0					
32					stiff med brown/gray fine sand w/ trace silt	32.0		moist
	2.0	12 20 61 50	0.0					
34					dense med red brown silty clay (interbedded silt layers)	33.5		
	1.5	3 2 4 5	0.0		very loose med/light brown fine sand	34.0		34.5 wet
36					loose to stiff med/light brown fine sand w/ trace silt	36.0		36.5 wet
	1.7	6 9 15 21	0.0					
38					loose to stiff med brown fine sand	38.0		38.5 saturated
	2.0	11 5 7 8	0.0					
40					loose to stiff med brown fine/med sand	40.0		saturated
	1.0	5 4 7 17	0.0					
42					stiff med brown fine sand	42.0		saturated
	2.0	13 15 20 21	0.0					
44					stiff to dense med/dark gray/brown fine sand w trace sub round gravel	44.0		moist soil sample collected 44-46'
	2.0	19 11 50/2	0.0					

MALCOLM PIRNIE	TEST BORING LOG	BORING No.MW-OS-21D
PROJECT **275 Franklin St**	LOCATION **Buffalo NY**	SHEET **3** OF **3**
CLIENT **NYSDEC**		PROJECT No. **0266377**

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
	2.0	18 17 15 11	0.0		loose to stiff med red brown sandy clay with 1/2" gravel till (strong plasticity)	46.0		wet
48	1.5	14 14 25 50/3	0.0		very dense light gray fine sandy clay and silt w/ gravel till	48.0	48.5 49.0 49.5	wet end of boring 49.5'
						50.0		

MALCOLM PIRNIE	TEST BORING LOG	BORING No.MW-OS-21S

PROJECT **275 Franklin St**	LOCATION **Buffalo NY**				SHEET **1** OF **2**	
CLIENT **NYSDEC**					PROJECT No. **0266377**	
DRILLING CONTRACTOR					MEAS. PT. ELEV.	
PURPOSE **MW Installation**					GROUND ELEV.	
WELL MATERIAL					DATUM	
DRILLING METHOD(S)		SAMPLE	CORE	CASING	DATE STARTED **5/13/09**	
DRILL RIG TYPE **D-50**	TYPE				DATE FINISHED **5/13/09**	
GROUND WATER DEPTH **12.0'**	DIA.	"			DRILLER **Larry Schroeder**	
MEASURING POINT	WEIGHT	#			PIRNIE STAFF **Dwight Symonds**	
DATE OF MEASUREMENT	FALL	"				

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. DEPTH	WELL Constr.	REMARKS
					cut 24" circular hole through asphalt and course gravel			
2					hand cleared - loose med brown fine sand	1.0	2.0	
4								
6	1.0	11 12	0.9		very loose med brown fine sand (quartz)	5.0		dry
	1.5	17 16 18 20	2.0		loose med/dark brown gray fine sand	6.0		dry
8	1.2	11 17 35 62	0.3		firm to dense med gray brown fine sand w/ trace silt	8.0	9.0	
10	1.6	14 40 50/4	0.2		dense med gray brown fine sand w/ trace silt	10.0	11.0	moist
12	1.3	10 16 25 25	0.0		loose med/dark gray med sand w/ trace sub round gravel ~0.1" diameter	12.0	13.5	wet
14	1.8	10 12 17 22	0.0		very loose med gray med/coarse sand	14.0		wet
16	1.6	3 2 6 12	0.1		loose med/dark gray med/coarse sand w/ trace fine sand	16.0		saturated
18	1.8	6 12 17 20	0.4		loose med brown gray fine to med sand	18.0		saturated

MALCOLM PIRNIE	TEST BORING LOG	BORING No.MW-OS-21S
PROJECT **275 Franklin St**	LOCATION **Buffalo NY**	SHEET **2** OF **2**
CLIENT **NYSDEC**		PROJECT No. **0266377**

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
	1.8	3 6 8 11	0.0		med dense med brown fine to med sand	20.0		saturated
22	1.8	2 5	0.0		very loose med/dark brown fine sand w/ med sand and silt	22.0		saturated
	1.7	2 2 8 5	0.0			23.5	23.5	saturated end of boring 23.5'

MALCOLM PIRNIE	TEST BORING LOG	BORING No.MW-OS-22D

PROJECT **275 Franklin St**	LOCATION **Buffalo NY**				SHEET **1** OF **3**	
CLIENT **NYSDEC**					PROJECT No. **0266377**	
DRILLING CONTRACTOR					MEAS. PT. ELEV.	
PURPOSE **MW Installation**					GROUND ELEV.	
WELL MATERIAL					DATUM	
DRILLING METHOD(S)		SAMPLE	CORE	CASING	DATE STARTED **5/14/09**	
DRILL RIG TYPE **D-50/D-120**	TYPE				DATE FINISHED **5/14/09**	
GROUND WATER DEPTH **11.0'**	DIA.	"			DRILLER **Larry Schroeder**	
MEASURING POINT	WEIGHT	#			PIRNIE STAFF **Dwight Symonds**	
DATE OF MEASUREMENT	FALL	"				

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. DEPTH	WELL Constr.	REMARKS
					cut 24" circular hole in asphalt/gravel			1.0
2					loose light orange brown fine sand w/ trace dark brown/black fine sand	1.0		
					dense dark red brown clay	3.0		dry
4					loose light orange brown fine sand	3.5		
	1.0	15 15	0.0		loose med/dark gray/brown fine sand	5.0		dry
6	1.7	21 25 23 19	0.0		firm med/light brown/gray fine sand w/ some orange oxidation bands(0.2" thick) w/ trace sub round gravel	6.0		dry
8	1.6	12 16 17 16	0.0		firm med/dark gray/brown fine sand	8.0		moist
10	1.6	23 22 27 31	0.0		a/a	10.0		moist/wet ▼
12	1.6	12 15 18 22	12.0		a/a	12.0		moist/wet
14	1.4	10 15 19 22	10.6		firm med gray fine sand	14.0		saturated
16	2.0	3 3 13 28	25		firm to loose med gray fine sand	16.0		saturated
18	1.5	3 9 18 21	15.0		firm med/dark gray fine/med sand	18.0		saturated soil sample collected 18-20'

MALCOLM PIRNIE	TEST BORING LOG	BORING No.MW-OS-22D
PROJECT **275 Franklin St**	LOCATION **Buffalo NY**	SHEET **2** OF **3**
CLIENT **NYSDEC**		PROJECT No. **0266377**

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
	2.0	6 13 24 35	9.9		a/a	20.0		saturated
22	1.5	5 9 14 17	10.6		loose to firm med/dark gray med/fine sand w/ trace orange med sand	22.0		saturated
24	1.7	7 15 20 20	11.9		loose to firm med/dark gray med/coarse sand w/ firm med/light brown fine sand	24.0		saturated
26	1.7	4 5 8 13	18.8		loose to firm med/light brown fine sand w/ some med gray fine/med sand	26.0		saturated
28	1.5	7 12 15 19	13.1		loose to firm med/light brown fine sand	28.0		saturated
30	1.5	7 10 15 19	14		loose med gray med sand w/ some fine sand	30.0		saturated
32	1.8	6 13 18 20	0.0		loose to firm dark gray coarse sand and gravel (~0.2" diameter) 4" layer of firm light brown sand w/ some silt	32.0		saturated
34	2.0	11 22 22 22	0.0		firm to loose med gray/brown fine sand (34-35') firm to dense light brown fine silty sand w/ trace reddish brown clay (35-36')	34.0	34.0 36.0	saturated
36	2.0	5 8 13 18	1.8		firm med/light brown fine sand	36.0	38.0	wet
38	1.8	3 5 11 9	0.0		firm med/dark gray brown fine sand	38.0		wet
40	2.0	5 6 11 11	0.0		firm to loose med gray brown fine sand	40.0		wet
42	1.0	8 2 15 12	0.0		dense to firm med/dark brown gray med/fine sand	42.0		wet
44	1.6	5 5 6 6	4.0		loose med/dark gray/brown med/fine sand	44.0		wet soil sample collected 46-48'

MALCOLM PIRNIE	TEST BORING LOG	BORING No.MW-OS-22D
PROJECT **275 Franklin St**	LOCATION **Buffalo NY**	SHEET **3** OF **3**
CLIENT **NYSDEC**		PROJECT No. **0266377**

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
	2.0	4679	3.9		loose med/light gray fine sand and silt w/ gravel till	46.0		wet
48	1.0	refusal	0.0		dense med/light gray fine sand and silt w/ gravel till (encountered bedrock refusal at 50')	48.0	48.0	wet end of boring 48'
						50.0	50.0	

MALCOLM PIRNIE	TEST BORING LOG	BORING No.MW-OS-22S

PROJECT **275 Franklin St**	LOCATION **Buffalo NY**				SHEET **1** OF **1**	
CLIENT **NYSDEC**					PROJECT No. **0266377**	
DRILLING CONTRACTOR					MEAS. PT. ELEV.	
PURPOSE **MW Installation**					GROUND ELEV.	
WELL MATERIAL					DATUM	
DRILLING METHOD(S)		SAMPLE	CORE	CASING	DATE STARTED **5/15/09**	
DRILL RIG TYPE **D-120**	TYPE				DATE FINISHED **5/15/09**	
GROUND WATER DEPTH **11.0'**	DIA.	"			DRILLER **Larry Schroeder**	
MEASURING POINT	WEIGHT	#			PIRNIE STAFF **Dwight Symonds**	
DATE OF MEASUREMENT	FALL	"				

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. DEPTH	WELL Constr.	REMARKS
					cut 24" circular hole in asphalt/gravel			1.0
2					loose light orange brown fine sand w/ trace dark brown/black fine sand	1.0		3.0
					dense dark red brown clay	3.0		dry
4					loose light orange brown fine sand	3.5		5.0
	1.0	15 15	0.0		loose med/dark gray/brown fine sand	5.0		dry
6	1.7	21 25 23 19	0.0		firm med/light brown/gray fine sand w/ some orange oxidation bands(0.2" thick) w/ trace sub round gravel	6.0		dry 7.7
8	1.6	12 16 17 16	0.0		firm med/dark gray/brown fine sand	8.0		moist
10	1.6	23 22 27 31	0.0		a/a	10.0		moist/wet
12	1.6	12 15 18 22	12.0		a/a	12.0		moist/wet
14	1.4	10 15 19 22	10.6		firm med gray fine sand	14.0		saturated
16	2.0	3 3 13 28	25		firm to loose med gray fine sand	16.0		saturated 17.7
18	1.5	3 9 18 21	15.0			18.0		18.0 saturated end of boring 18'

MALCOLM PIRNIE	TEST BORING LOG	BORING No.MW-OS-23D

PROJECT **275 Franklin St**	LOCATION **Buffalo NY**				SHEET **1** OF **3**	
CLIENT **NYSDEC**					PROJECT No. **0266377**	
DRILLING CONTRACTOR					MEAS. PT. ELEV.	
PURPOSE **MW Installation**					GROUND ELEV.	
WELL MATERIAL					DATUM	
DRILLING METHOD(S)		SAMPLE	CORE	CASING	DATE STARTED **5/18/09**	
DRILL RIG TYPE **D-120**	TYPE				DATE FINISHED **5/19/09**	
GROUND WATER DEPTH **11.0'**	DIA.	"			DRILLER **Larry Schroeder**	
MEASURING POINT	WEIGHT	#			PIRNIE STAFF **Dwight Symonds**	
DATE OF MEASUREMENT	FALL	"				

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. DEPTH	WELL Constr.	REMARKS
					fill as c&d debris with brick & stone			
2								2.0
4								
	0.8	50/2	0.0		a/a	5.0		dry
6	1.5	9 12 14 12	4.1		firm to loose med brown fine sand	6.0		dry
8	1.8	13 13 15 15	0.7		firm med brown fine sand w/ orange brown fine sand layers ~ 0.02" thick at ~10'	8.0		moist
10	1.2	17 24 30 34	4.4		firm to loose med/dark brown fine/med sand w/ dark brown sand layers at ~10.5'	10.0		dry ▼
12	1.6	10 10 28 33	2.0		firm med/dark brown fine/med sand	12.0		saturated
14	1.8	9 25 35 40	2.0		a/a	14.0		saturated
16	1.7	23 37 50/4	2.4		firm med brown fine sand w/ trace silt	16.0		saturated
18	2.0	21 40 50/4	1.8		firm med brown fine sand	18.0		wet soil sample collected 18-20'

MALCOLM PIRNIE	TEST BORING LOG	BORING No.MW-OS-23D
PROJECT **275 Franklin St**	LOCATION **Buffalo NY**	SHEET **2** OF **3**
CLIENT **NYSDEC**		PROJECT No. **0266377**

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. DEPTH	WELL Constr.	REMARKS
	1.9	25 32 50/3	2.0		firm to dense med brown fine sand w/ med/dark gray brown med/coarse sand	20.0		saturated
22	2.0	25 57 50/2	2.0		firm to dense med brown fine sand w/ med/dark gray/brown med/coarse sand	22.0		saturated
24	2.0	5 17 35 50/4	2.0		24-25' - firm to dense med brown fine sand 25-25.5' - loose med/dark gray/brown course sand	24.0		saturated
26	2.0	3 4 24 26	0.9		25.5-26' - firm to dense med brown fine sand w/ trace red brown interbedded sandy clay layers ~0.01" thick w/ trace sub round gravel ~0.01" diameter	26.0		wet
28	2.0	26 28 38 40	1.3		firm to dense med brown fine sand w/ trace sub round gravel ~0.5" diameter & trace red brown sandy clay 28-29' - loose med brown med sand	28.0		wet
30	2.0	7 14 35 35	0.0		29-30' - firm to stiff med/dark brown fine sand w/ some dense red brown sandy clay & trace gravel ~0.3" diameter loose to firm med brown fine sand	30.0		wet
32	2.0	8 16 40 50/3	1.0		31.5' - firm to stiff med/dark gray/brown sand & gravel ~0.2" diameter loose to firm med gray/brown coarse sand & sub round gravel ~ 0.3" diameter w/ trace red brown clay	32.0		wet
34	1.8	26 40 50 53	0.4		firm to stiff med/light brown find silty sand	34.0		saturated
36	1.8	6 9 20 50/3	0.0		a/a	36.0		saturated
38	1.8	4 10	0.4		loose med gray/brown fine sand	38.0		saturated
40	1.8	3 3 10 18	0.0		a/a	40.0		saturated
42	0				lost sample	42.0		
44	2.0	23 27 50/4	0.0		firm med gray/brown fine sand w/ trace gravel ~0.02" diameter w/ trace orange brown oxidation bands	44.0		moist soil sample collected 44-46'

MALCOLM PIRNIE	TEST BORING LOG	BORING No.MW-OS-23D
PROJECT **275 Franklin St**	LOCATION **Buffalo NY**	SHEET **3** OF **3**
CLIENT **NYSDEC**		PROJECT No. **0266377**

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
	2.0	40 25 25 40	0.3		loose to dense med gray brown fine and & gravel w/ dense red/brown sandy clay w/ some sub round gravel ~0.2" diameter (till)	46.0		moist
48	1.0	25 40 50/4	0.2		dense to stiff med red brown sandy clay w/ sub round gravel ~1" diameter (bedrock)	48.0 49.0	48.3 48.5 49.0	moist end of boring 48'

MALCOLM PIRNIE	TEST BORING LOG	BORING No.MW-OS-23S

PROJECT **275 Franklin St**	LOCATION **Buffalo NY**				SHEET **1** OF **1**	
CLIENT **NYSDEC**					PROJECT No. **0266377**	
DRILLING CONTRACTOR					MEAS. PT. ELEV.	
PURPOSE **MW Installation**					GROUND ELEV.	
WELL MATERIAL					DATUM	
DRILLING METHOD(S)		SAMPLE	CORE	CASING	DATE STARTED **5/19/09**	
DRILL RIG TYPE **D-120**	TYPE				DATE FINISHED **5/19/09**	
GROUND WATER DEPTH **11.0'**	DIA.	"			DRILLER **Larry Schroeder**	
MEASURING POINT	WEIGHT	#			PIRNIE STAFF **Dwight Symonds**	
DATE OF MEASUREMENT	FALL	"				

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. DEPTH	WELL Constr.	REMARKS
					fill as c&d with brick & stone			
2							2.0	
4							5.0	
	0.8	50/2	0.0		a/a	5.0		dry
6	1.5	9 12 14 12	4.1		firm to loose med brown fine sand	6.0	7.0	dry
8	1.8	13 13 15 15	0.7		firm med brown fine sand w/ orange brown fine sand layers ~ 0.02" thick at ~10'	8.0	9.0	moist
10	1.2	17 24 30 34	4.4		firm to loose med/dark brown fine/med sand w/ dark brown sand layers at ~10.5'	10.0		dry ▼
12	1.6	10 10 28 33	2.0		firm med/dark brown fine/med sand	12.0		saturated
14	1.8	9 25 35 40	2.0		a/a	14.0		saturated
16	1.7	23 37 50/4	2.4		firm med brown fine sand w/ trace silt	16.0		saturated
18	2.0	21 40 50/4	1.8					wet
							19.0 19.5	
						19.5		end of boring 19.5'

MALCOLM PIRNIE	TEST BORING LOG	BORING No.MW-OS-24D

PROJECT **275 Franklin St**	LOCATION **Buffalo NY**				SHEET **1** OF **3**	
CLIENT **NYSDEC**					PROJECT No. **0266377**	
DRILLING CONTRACTOR					MEAS. PT. ELEV.	
PURPOSE **MW Installation**					GROUND ELEV.	
WELL MATERIAL					DATUM	
DRILLING METHOD(S)		SAMPLE	CORE	CASING	DATE STARTED **5/20/09**	
DRILL RIG TYPE **D-120**	TYPE				DATE FINISHED **5/20/09**	
GROUND WATER DEPTH **11.0'**	DIA.	"			DRILLER **Larry Schroeder**	
MEASURING POINT	WEIGHT	#			PIRNIE STAFF **Dwight Symonds**	
DATE OF MEASUREMENT	FALL	"				

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. DEPTH	WELL Constr.	REMARKS
					cut 24" circular hole through asphalt and gravel (fill, concrete & topsoil)			
2					loose med/light orange brown fine sand	1.0	2.0	
4	1.5	9 13 15	0.2		loose med/light gray tan fine sand	4.5		dry
6	1.6	16 18 22 22	0.2		loose med/light gray brown fine sand	6.0		dry
8	1.7	19 28 28 30	0.0		firm med brown fine sand w/ 2" dense red brown clay lens (perched saturation)	8.0		wet
10	1.7	20 25 27 25	10.4		loose med/dark brown fine sand	10.0		moist soil sample collected 10-12'
12	1.8	5 7 9 7	0.0		loose med/dark brown fine/med sand	12.0		saturated
14	1.8	9 15 19 20	0.0		a/a	14.0		wet
16	2.0	7 9 13 20	0.0		loose to firm med/dark gray brown med sand	16.0		wet
18	0.8	2 3 6 6	0.0		loose med/dark gray/brown sand	18.0		wet

MALCOLM PIRNIE	TEST BORING LOG	BORING No.MW-OS-24D
PROJECT **275 Franklin St**	LOCATION **Buffalo NY**	SHEET **2** OF **3**
CLIENT **NYSDEC**		PROJECT No. **0266377**

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
	1.5	3 3 9 14	0.1		a/a	20.0		wet
22	1.6	8 11 15 24	0.0		a/a	22.0		wet
24	1.2	13 11 11 11	0.0		loose to firm light brown fine sand	24.0		wet
26	1.8	6 12 18 20	0.0		26-27' - loose med/dark brown med sand 27-27.2' - firm med/dark red brown sandy clay 27.2-28' - firm med/light brown fine sand	26.0		wet
28	2.0	7 12 20 24	0.0		loose to firm med brown fine sand w/ trace silt at 29'	28.0		wet
30	1.7	4 8 12 13	0.0		loose to firm med/light brown fine silty sand	30.0		wet
32	1.5	3 9 16 14	0.0		loose med brown fine sand	32.0		wet
34	2.0	4 10 15 16	0.0		a/a	34.0	34.5	wet
36	2.0	6 12 18 33	0.0		firm med brown fine sand w/ dense red brown sandy clay from 37.5 to 37.8'	36.0	36.5	wet
38	1.9	8 12 17 33	0.0		firm med/dark gray brown fine/med sand w/ dense red brown sandy clay from 39.5 to 39.9'	38.0	38.5	wet
40	2.0	9 28 50/3	0.0		firm med/dark gray brown med sand w/ trace sub round gravel ~ 0.5" diameter	40.0		wet
42	1.1	10 16 20 22	0.0		loose to firm med gray/brown fine/med sand	42.0		wet
44	2.0	3 4 12 16	0.0		loose to firm med gray/brown fine/med sand w/ trace orange brown oxidation bands~0.2" thick	44.0		wet soil sample collected 44-46' (ms/msd)

MALCOLM PIRNIE	TEST BORING LOG	BORING No.MW-OS-24D
PROJECT **275 Franklin St**	LOCATION **Buffalo NY**	SHEET **3** OF **3**
CLIENT **NYSDEC**		PROJECT No. **0266377**

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. / DEPTH	WELL Constr.	REMARKS
	1.8	19 24 24 27	0.0		46-47.6' - firm to stiff med/dark gray brown fine sand 47.6-48' - firm to dense med red brown sandy clay (till)	46.0		wet
48	2.0	12 37 37 50/3	0.0		dense med red brown sandy clay w/ trace sub round gravel bedrock at 50'	48.0		48.5 49.5 50.0
						50.0		end of boring 50'

MALCOLM PIRNIE	TEST BORING LOG	BORING No.MW-OS-24S

PROJECT **275 Franklin St**	LOCATION **Buffalo NY**				SHEET **1** OF **1**	
CLIENT **NYSDEC**					PROJECT No. **0266377**	
DRILLING CONTRACTOR					MEAS. PT. ELEV.	
PURPOSE **MW Installation**					GROUND ELEV.	
WELL MATERIAL					DATUM	
DRILLING METHOD(S)		SAMPLE	CORE	CASING	DATE STARTED **5/21/09**	
DRILL RIG TYPE **D-120**	TYPE				DATE FINISHED **5/21/09**	
GROUND WATER DEPTH **11.0'**	DIA.	"			DRILLER **Larry Schroeder**	
MEASURING POINT	WEIGHT	#			PIRNIE STAFF **Dwight Symonds**	
DATE OF MEASUREMENT	FALL	"				

DEPTH FT.	SAMPLE TYPE, RECOVERY, NUMBER	BLOWS ON SAMPLE SPOON PER 6"	PID	GRAPHIC LOG	GEOLOGIC DESCRIPTION KEY - Color, Major, Minor Moisture, Etc.	ELEV. DEPTH	WELL Constr.	REMARKS
					cut 24" circular hole through asphalt and gravel (fill, concrete & topsoil)			1.0
2					loose med/light orange brown fine sand	1.0		
4								
	1.5	9 13 15	0.2		loose med/light gray tan fine sand	4.5		5.0 dry
6	1.6	16 18 22 22	0.2		loose med/light gray brown fine sand	6.0		dry 7.0
8	1.7	19 28 28 30	0.0		firm med brown fine sand w/ 2" dense red brown clay lens (perched saturation)	8.0		wet 9.0
10	1.7	20 25 27 25	10.4		loose med/dark brown fine sand	10.0		moist
12	1.8	5 7 9 7	0.0		loose med/dark brown fine/med sand	12.0		saturated
14	1.8	9 15 19 20	0.0		a/a	14.0		wet
16	2.0	7 9 13 20	0.0		loose to firm med/dark gray brown med sand	16.0		wet
18	0.8	2 3 6 6	0.0		loose med/dark gray/brown sand	18.0		wet 19.0
						19.0		end of boring 19'

New York State Department of Environmental Conservation
Immediate Investigation Summary Report

Appendix C

Daily Observation Reports

MALCOLM PIRNIE

DAILY OBSERVATION REPORT

Day: Monday Date: 5/11/09

NYSDEC

Division of Environmental Remediation
275 Franklin Street SVI/GW Investigation
NYSDEC Site # C-915208

Contract # D-004439-3

Buffalo, New York

Temperature: (F) 40 (am) 60° (pm)

Wind Direction: breezy (am) (pm)

Weather: (am) clear, breezy
(pm)

Arrive at site 0750 (am)

Leave site: 1430 (pm)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan? Yes ( ) No (✓)
(If yes, list the deviation under items for concern)

Are monitoring results at acceptable levels?

Soil	Yes (✓)	n/a ( )	* No ( )
Waters	Yes ( )	n/a (✓)	* No ( )
Air	Yes ( )	n/a (✓)	* No ( )

• *If No, provide comments*

OTHER ITEMS:

Site Sketch Attached: Yes ( ) No (✓)
Photos Taken: Yes ( ) No (✓)

DESCRIPTION OF DAILY WORK PERFORMED:

- set up / construct decon Pad

- cut asphalt @ MW-05-21D

PROJECT TOTALS:

SAMPLING (Soil/Water/Air)

Contractor Sample ID:	DEC Sample ID:	Description:

DAILY OBSERVATION REPORT **Day:** Monday **Date:** 5/11/09

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

(Name of contractor) personnel: Dwight Symonds / Jim Richert MPI

(Name of Subcontractor) personnel:

(Name of contractor) equipment: Larry Schnader / Russ Dibble Buffalo Drilling

(*Indicates active equipment)

Other Subcontractors: Gene Melnyk NYSDEC

VISITORS TO SITE:

1.

PROJECT SCHEDULE ISSUES:

PROJECT BUDGET ISSUES:

ITEMS OF CONCERN:

COMMENTS:
- Buffalo Drilling didn't arrive onsite until 1200
- Not prepared to drill / tooling ect.
- waiting on Hydrant permit

ATTACHMENT(S) TO THIS REPORT:

SITE REPRESENTATIVE:

Name: (*signature*) D. Symonds 5/11/09

cc:

DAILY PHOTOLOG

DAILY OBSERVATION REPORT

Day: Tuesday **Date:** 5/12/09

NYSDEC

Division of Environmental Remediation
275 Franklin Street SVI/GW Investigation
NYSDEC Site # C-915208

Contract # D-004439-3

Buffalo, New York

Temperature: (F) 45° (am) 65° (pm)

Wind Direction: (am) (pm)

Weather: (am) clear, calm
(pm)

Arrive at site 0750 (am)

Leave site: 1600 (pm)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan? Yes ( ) No (✓)
(If yes, list the deviation under items for concern)

Are monitoring results at acceptable levels?

Soil	Yes (✓)	n/a ( )	* No ( )
Waters	Yes ( )	n/a (✓)	* No ( )
Air	Yes ( )	n/a (✓)	* No ( )

- *If No, provide comments*

OTHER ITEMS:

Site Sketch Attached: Yes ( ) No (✓)
Photos Taken: Yes ( ) No (✓)

DESCRIPTION OF DAILY WORK PERFORMED:

- continue Drilling @ MW-05-21D
- Advanced 4¼" Auggars to 48'
- continuous split spoon Sampling to 48'-50'
- Tagged bedrock @ ~50'
- collected Two soil samples: ID's
  ① C915208-05-SB MW-21D 18-20'
  ② C915208-05-SB MW-21D 44-46'

PROJECT TOTALS:

SAMPLING (Soil/Water/Air)

Contractor Sample ID:	DEC Sample ID:	Description:
C915208-05-SB MW-21D 18-20'		1 4oz Soil Jar
C915208-05-SB MW-21D 44-46'		" "

DAILY OBSERVATION REPORT Day: Tuesday Date: 5/12/09

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

(Name of contractor) personnel: D. Symonds / Jim Richert MPI

(Name of Subcontractor) personnel: Larry Schroder / Russ Dibble Boff. Drilling

(Name of contractor) equipment:

(*Indicates active equipment)

Other Subcontractors: Gene Melnyk NYSDEC

VISITORS TO SITE:

1.

PROJECT SCHEDULE ISSUES:

PROJECT BUDGET ISSUES:

ITEMS OF CONCERN: - Running Sands → will have to flush using 2" casing & Roller bit -

COMMENTS: - still waiting for Hydrant permit.

ATTACHMENT(S) TO THIS REPORT:

SITE REPRESENTATIVE:

Name: (*signature*) D. Symonds 5/12/09

cc:

DAILY PHOTOLOG

DAILY OBSERVATION REPORT

Day: Wednesday Date: 5/13/09

NYSDEC

Division of Environmental Remediation
275 Franklin Street SVI/GW Investigation
NYSDEC Site # C-915208

Contract # D-004439-3

Buffalo, New York

Temperature: (F) 50° (am) 68° (pm)

Wind Direction: (am) (pm)

Weather: (am) clear, sunny
(pm)

Arrive at site 0730 (am)

Leave site: 1630 (pm)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan? Yes ( ) No (✓)
(If yes, list the deviation under items for concern)

Are monitoring results at acceptable levels?

Soil	Yes (✓)	n/a ( )	* No ( )
Waters	Yes ( )	n/a (✓)	* No ( )
Air	Yes ( )	n/a (✓)	* No ( )

• *If No, provide comments*

OTHER ITEMS:

Site Sketch Attached: Yes ( ) No (✓)
Photos Taken: Yes ( ) No (✓)

DESCRIPTION OF DAILY WORK PERFORMED:

- Continue Drilling @ MW-05-21D
  - construct well & Grout.

- Drill MW-05-21S
  - construct well & Grout.

PROJECT TOTALS:

SAMPLING (Soil/Water/Air)

Contractor Sample ID:	DEC Sample ID:	Description:

DAILY OBSERVATION REPORT **Day:** Wednesday **Date:** 5/13/09

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

(Name of contractor) personnel: Dwight Symonds MPI / Jim Richert MPI
(Name of Subcontractor) personnel: John Hilton MPI
(Name of contractor) equipment:
*(*Indicates active equipment)* Larry Schroder / Russ Dibble Buffalo Drilling
Other Subcontractors: Gene Melnyk NYSDEC

VISITORS TO SITE:
1. Joe Rizk (local property owner)

PROJECT SCHEDULE ISSUES:

PROJECT BUDGET ISSUES:

ITEMS OF CONCERN:

COMMENTS: - running sands issue has been solved using 2" casing & Roller bit — flushed w/ water.

ATTACHMENT(S) TO THIS REPORT:

SITE REPRESENTATIVE:

Name: (*signature*) D. Symonds 5/13/09
cc:

DAILY PHOTOLOG

DAILY OBSERVATION REPORT

NYSDEC

Division of Environmental Remediation
275 Franklin Street SVI/GW Investigation
NYSDEC Site # C-915208

Contract # D-004439-3

Buffalo, New York

Day: Thursday **Date:** 5/14/09

Temperature: (F) 50 (am) 58° (pm)

Wind Direction: (am) (pm)

Weather: (am) strong winds / overcast
(pm) Heavy Rain @ 1200 - sunny in afternoon

Arrive at site 0730 (am)

Leave site: 1600 (pm)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan? Yes ( ) No (✓)
(If yes, list the deviation under items for concern)

Are monitoring results at acceptable levels?

Soil	Yes (✓)	n/a (✓)	* No ( )
Waters	Yes ( )	n/a (✓)	* No ( )
Air	Yes ( )	n/a (✓)	* No ( )

- *If No, provide comments*

OTHER ITEMS:

Site Sketch Attached: Yes ( ) No (✓)
Photos Taken: Yes ( ) No (✓)

DESCRIPTION OF DAILY WORK PERFORMED:

- Decon Auggars
- Construct flush mounts for MW-05-21D & MW-05-21S
- start Drilling @ MW-05-22D
  - Advance split spoon & Auggars to 46'
  - collect one soil sample -
    ID: C915208-05-SB-MW-22D 18-20'

PROJECT TOTALS:

SAMPLING (Soil/Water/Air)

Contractor Sample ID:	DEC Sample ID:	Description:
C915208-05-SB-MW22D 18-20'		1 4oz soil jar

DAILY OBSERVATION REPORT **Day:** Thursday **Date:** 5/14/09

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

(Name of contractor) personnel: Dwight Symonds / Jim Richert / John Hilton MPI

(Name of Subcontractor) personnel:

(Name of contractor) equipment: Larry Schrader / Russ Dibble Buffdrilling

(*Indicates active equipment)

Other Subcontractors: # (Charlie)

Gene Melnyk NYSDEC

VISITORS TO SITE:

1.

PROJECT SCHEDULE ISSUES:

PROJECT BUDGET ISSUES:

ITEMS OF CONCERN: Diedrick - 50 Rig Broke Right Angle Drive @ 1430

will have replacement part or New Rig Friday Am.

COMMENTS:

ATTACHMENT(S) TO THIS REPORT:

SITE REPRESENTATIVE:

Name: (*signature*) D. Symonds 5/14/09

cc:

DAILY PHOTOLOG

DAILY OBSERVATION REPORT

NYSDEC

Division of Environmental Remediation
275 Franklin Street SVI/GW Investigation
NYSDEC Site # C-915208

Contract # D-004439-3

Buffalo, New York

Day: Friday **Date:** 5/15/09

Temperature: (F) 55° (am) 75° (pm)

Wind Direction: (am) (pm)

Weather: (am) clear sunny
(pm)

Arrive at site 0730 (am)

Leave site: 1600 (pm)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan? Yes ( ) No (✓)
(If yes, list the deviation under items for concern)

Are monitoring results at acceptable levels?

Soil	Yes (✓)	n/a ( )	* No ( )
Waters	Yes ( )	n/a (✓)	* No ( )
Air	Yes ( )	n/a (✓)	* No ( )

• *If No, provide comments*

OTHER ITEMS:

Site Sketch Attached: Yes ( ) No (✓)
Photos Taken: Yes ( ) No (✓)

DESCRIPTION OF DAILY WORK PERFORMED:

- New Diedrich D-120 onsite
- continue drilling @ MW-22D / collect soil sample
  - construct well & Grout.
- drill @ MW-22S
  construct well & Grout

PROJECT TOTALS:

SAMPLING (Soil/Water/Air)

Contractor Sample ID:	DEC Sample ID:	Description:
C915208-05-SB-MW-22D 44-46'		1 4oz Soil Jar.

DAILY OBSERVATION REPORT **Day:** Friday **Date:** 5/15/09

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

(Name of contractor) personnel: Dwight Symonds / Jim Rickert / John Hilton MP1

(Name of Subcontractor) personnel: Larry Schroeder / Russ Dibble Buff Drill.

(Name of contractor) equipment:

(*Indicates active equipment)

Other Subcontractors: Gene Melnyk NYSDEC

VISITORS TO SITE:

1.

PROJECT SCHEDULE ISSUES:

PROJECT BUDGET ISSUES:

ITEMS OF CONCERN:

COMMENTS:

ATTACHMENT(S) TO THIS REPORT:

SITE REPRESENTATIVE:

Name: (*signature*) D. Symonds 5/15/09

cc:

DAILY PHOTOLOG

DAILY OBSERVATION REPORT

NYSDEC

Division of Environmental Remediation
275 Franklin Street SVI/GW Investigation
NYSDEC Site # C-915208

Contract # D-004439-3

Buffalo, New York

Day: Monday **Date:** 5/18/09

Temperature: (F) 38 (am) 60 (pm)

Wind Direction: (am) (pm)

Weather: (am) clear, sunny
(pm)

Arrive at site 0745 (am)

Leave site: 1600 (pm)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan? (If yes, list the deviation under items for concern) Yes ( ) No (✓)

Are monitoring results at acceptable levels?

Soil	Yes (✓)	n/a ( )	* No ( )
Waters	Yes ( )	n/a (✓)	* No ( )
Air	Yes ( )	n/a (✓)	* No ( )

• *If No, provide comments*

OTHER ITEMS:

Site Sketch Attached: Yes ( ) No (✓)
Photos Taken: Yes ( ) No (✓)

DESCRIPTION OF DAILY WORK PERFORMED:

- Decon Augers, construct flushmount pads.

- start Drilling @ MW-05-23D
Advanced split spoons to 44-46'

collected soil samples –
ID: C915208-05-SB-MW-23D 18-20'

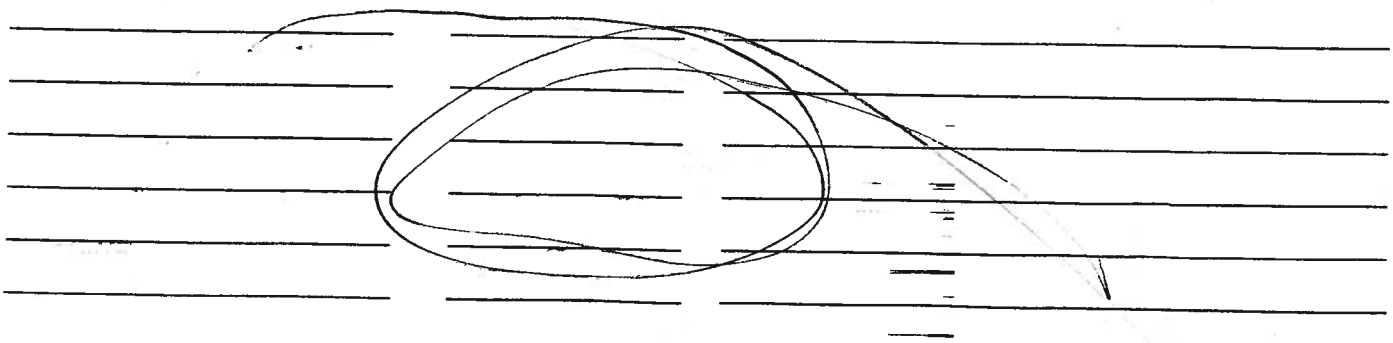
ID: C915208-05-SB-MW-23D 44-46'

2-4oz soil jars

PROJECT TOTALS:

SAMPLING (Soil/Water/Air)

Contractor Sample ID:	DEC Sample ID:	Description:



DAILY OBSERVATION REPORT

Day: Monday Date: 5/18/09

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

(Name of contractor) personnel: Dwight Symonds MP1

(Name of Subcontractor) personnel: Buffalo Drilling: Larry Schrader / Russ Dibble

(Name of contractor) equipment:

(*Indicates active equipment)

Other Subcontractors: NYSDEC - Gene Melnyk

VISITORS TO SITE:

1.

PROJECT SCHEDULE ISSUES:

PROJECT BUDGET ISSUES:

ITEMS OF CONCERN:

COMMENTS:

ATTACHMENT(S) TO THIS REPORT:

SITE REPRESENTATIVE:

Name: (*signature*) D. Symonds 5/18/09

cc:

DAILY PHOTOLOG

DAILY OBSERVATION REPORT

NYSDEC

Division of Environmental Remediation
275 Franklin Street SVI/GW Investigation
NYSDEC Site # C-915208

Contract # D-004439-3

Buffalo, New York

Day: Tuesday **Date:** 5/19/09

Temperature: (F) 40 (am) 60 (pm)

Wind Direction: (am) (pm)

Weather: (am) clear, calm, Sunny
(pm)

Arrive at site 0800 (am)

Leave site: 1530 (pm)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan? (If yes, list the deviation under items for concern) Yes ( ) No (✓)

Are monitoring results at acceptable levels?

Soil	Yes (•)	n/a (✓)	* No ( )
Waters	Yes ( )	n/a (✓)	* No ( )
Air	Yes ( )	n/a (✓)	* No ( )

• *If No, provide comments*

OTHER ITEMS:

Site Sketch Attached: Yes ( ) No (✓)
Photos Taken: Yes ( ) No (✓)

DESCRIPTION OF DAILY WORK PERFORMED:

- Continue drilling @ MW-05-23D
  [Install well, sandpack, Bentonite, Grout to 1'BG]
- Drill MW-05-23S (19.5')
- Install MW-05-23S
  [Grout to surface]
- construct curb boxes for MW05-23D & MW05-23S

PROJECT TOTALS:

SAMPLING (Soil/Water/Air)

Contractor Sample ID:	DEC Sample ID:	Description:

DAILY OBSERVATION REPORT Day: Tuesday Date: 5/19/09

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

(Name of contractor) personnel: Dwight Symonds MPI

(Name of Subcontractor) personnel: Buffalo Drilling : Larry Schroder & Russ Dibble

(Name of contractor) equipment:

(*Indicates active equipment)

Other Subcontractors: NYSDEC : Gene Melnyk

VISITORS TO SITE:

1.

PROJECT SCHEDULE ISSUES:

PROJECT BUDGET ISSUES:

ITEMS OF CONCERN:

COMMENTS:

ATTACHMENT(S) TO THIS REPORT:

SITE REPRESENTATIVE:

Name: (*signature*) D. Symcl 5/19/09

cc:

DAILY PHOTOLOG

DAILY OBSERVATION REPORT

NYSDEC

Division of Environmental Remediation
275 Franklin Street SVI/GW Investigation
NYSDEC Site # C-915208

Contract # D-004439-3

Buffalo, New York

Day: Wednesday Date: 5/20/09

Temperature: (F) 60 (am) 80 (pm)

Wind Direction: (am) (pm)

Weather: (am) Sunny, Clear
(pm)

Arrive at site 0800 (am)

Leave site: 1600 (pm)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan? (If yes, list the deviation under items for concern) Yes ( ) No (✓)

Are monitoring results at acceptable levels?

Soil	Yes (✓)	n/a ( )	* No ( )
Waters	Yes ( )	n/a (✓)	* No ( )
Air	Yes ( )	n/a (✓)	* No ( )

• *If No, provide comments*

OTHER ITEMS:

Site Sketch Attached: Yes ( ) No (✓)
Photos Taken: Yes ( ) No (✓)

DESCRIPTION OF DAILY WORK PERFORMED:

- Set up & Drill @ MW-05-240 (alley between Buildings 275 Franklin)
- collected soil samples:
  ID: C915208-05-SB-MW-240 10-12' (2 4oz Soil Jars)
  ID: C915208-05-SB-MW-240 44-46'
- Advanced spoons to 50' - Augers to 48'
- construct well & seal with bentonite.

PROJECT TOTALS:

SAMPLING (Soil/Water/Air)

Contractor Sample ID:	DEC Sample ID:	Description:

DAILY OBSERVATION REPORT Day: Wednesday Date: 5/20/09

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

(Name of contractor) personnel: Dwight Symonds MPI

(Name of Subcontractor) personnel: Buffalo Drilling: Larry Schneider / Russ Dibble

(Name of contractor) equipment:

(*Indicates active equipment)

Other Subcontractors: NYSDEC: Gene Melnyk.

VISITORS TO SITE:

1.

PROJECT SCHEDULE ISSUES:

PROJECT BUDGET ISSUES:

ITEMS OF CONCERN:

COMMENTS:

ATTACHMENT(S) TO THIS REPORT:

SITE REPRESENTATIVE:

Name: (*signature*) D. Symonds 5/20/09

cc:

DAILY PHOTOLOG

DAILY OBSERVATION REPORT

NYSDEC

Division of Environmental Remediation
275 Franklin Street SVI/GW Investigation
NYSDEC Site # C-915208

Contract # D-004439-3

Buffalo, New York

Day: Thursday **Date:** 5/21/09

Temperature: (F) 65 (am) 85 (pm)

Wind Direction: (am) (pm)

Weather: (am) clear, Sunny
(pm)

Arrive at site 0800 (am)

Leave site: 1500 (pm)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan? (If yes, list the deviation under items for concern) Yes ( ) No (✓)

Are monitoring results at acceptable levels?

Soil	Yes ( )	n/a (✓)	* No ( )
Waters	Yes ( )	n/a (✓)	* No ( )
Air	Yes ( )	n/a (✓)	* No ( )

• *If No, provide comments*

OTHER ITEMS:

Site Sketch Attached: Yes ( ) No (✓)
Photos Taken: Yes ( ) No (✓)

DESCRIPTION OF DAILY WORK PERFORMED:

- Grout MW-05-24D
- Drill & Install MW-05-24S
- MW-05-24S - 19' Bgs
- Top of screen 9'
- Wash alley of mud -
- Break down Decon Pad -

PROJECT TOTALS:

SAMPLING (Soil/Water/Air)

Contractor Sample ID:	DEC Sample ID:	Description:

DAILY OBSERVATION REPORT Day: Thursday Date: 5/21/09

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

(Name of contractor) personnel: D. Symonds MPI

(Name of Subcontractor) personnel: L. Schrader / R. Dibble Buffalo Drilling

(Name of contractor) equipment:

(*Indicates active equipment)

Other Subcontractors: G. Melnyk NYSDEC

VISITORS TO SITE:

1.

PROJECT SCHEDULE ISSUES:

PROJECT BUDGET ISSUES:

ITEMS OF CONCERN:

COMMENTS:

ATTACHMENT(S) TO THIS REPORT:

SITE REPRESENTATIVE:

Name: (*signature*) D. Symonds - 5/21/09

cc:

DAILY PHOTOLOG

DAILY OBSERVATION REPORT

NYSDEC

Division of Environmental Remediation
275 Franklin Street SVI/GW Investigation
NYSDEC Site # C-915208

Contract # D-004439-3

Buffalo, New York

Day: Tuesday Date: 5/26/09

Temperature: (F) 50 (am) 70 (pm)

Wind Direction: (am) (pm)

Weather: (am) clear, Sunny
(pm)

Arrive at site 0800 (am)

Leave site: 1600 (pm)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan? Yes ( ) No (✓)
(If yes, list the deviation under items for concern)

Are monitoring results at acceptable levels?

Soil	Yes ( )	n/a (✓)	* No ( )
Waters	Yes (✓)	n/a ( )	* No ( )
Air	Yes ( )	n/a (✓)	* No ( )

• *If No, provide comments*

OTHER ITEMS:

Site Sketch Attached: Yes ( ) No (✓)
Photos Taken: Yes ( ) No (✓)

DESCRIPTION OF DAILY WORK PERFORMED:

- Development & GW Sampling.

- MW-05-21S, MW-05-21D, MW-05-22S, MW-05-22D, MW-05-23S

- collected GW samples in 40mL Voa Vials

PROJECT TOTALS:

SAMPLING (Soil/Water/Air)

Contractor Sample ID:	DEC Sample ID:	Description:
C915208-05-GW-MW-21S		2 40mL Voas
C915208-05-GW-MW-21D		" "
C915208-05-GW-MW-22S		" "
C915208-05-GW-MW-22D		" "
C915208-05-GW-MW-23S		" "

DAILY OBSERVATION REPORT Day: Tuesday Date: 5/26/09

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

(Name of contractor) personnel: D. Symonds MPI

(Name of Subcontractor) personnel: Larry Schrader / Russ Dibble Buffalo Drilling

(Name of contractor) equipment:

(*Indicates active equipment)

Other Subcontractors: Gene Melnyk NYSDEC

VISITORS TO SITE:

1.

PROJECT SCHEDULE ISSUES:

PROJECT BUDGET ISSUES:

ITEMS OF CONCERN:

COMMENTS:

ATTACHMENT(S) TO THIS REPORT:

SITE REPRESENTATIVE:

Name: (*signature*) D. Symonds

cc:

DAILY PHOTOLOG

DAILY OBSERVATION REPORT

Day: Wednesday Date: 5/27/09

NYSDEC

Division of Environmental Remediation
275 Franklin Street SVI/GW Investigation
NYSDEC Site # C-915208

Contract # D-004439-3

Buffalo, New York

Temperature: (F) 59° (am) 76° (pm)

Wind Direction: (am) (pm)

Weather: (am) Cloudy - 10% chance Rain
(pm)

Arrive at site 0800 (am)

Leave site: 1400 (pm)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan? Yes ( ) No (✓)
(If yes, list the deviation under items for concern)

Are monitoring results at acceptable levels?

Soil	Yes ( )	n/a (✓)	* No ( )
Waters	Yes (✓)	n/a ( )	* No ( )
Air	Yes ( )	n/a (✓)	* No ( )

- *If No, provide comments*

OTHER ITEMS:

Site Sketch Attached: Yes ( ) No (✓)
Photos Taken: Yes ( ) No (✓)

DESCRIPTION OF DAILY WORK PERFORMED:

Continue MW development @
→ MW-OS-23D, MW-OS-24D, MW-OS-24S
collected GW samples - MS, MSD, & field Dup.
→ MOB drill rig offsite -

PROJECT TOTALS:

SAMPLING (Soil/Water/Air)

Contractor Sample ID:	DEC Sample ID:	Description:
C915208-OS-GW-MW-23D		2-40mL VOAs
C915208OS-GW-MW-24D		" "
C915208-OS-GW-MW-24D	MS	" "
" "	MSD	" "
field Dup		" "

DAILY OBSERVATION REPORT Day: ~~Tue~~ Wednesday Date: 5/27/09

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

(Name of contractor) personnel: D. Symonds / MPI

(Name of Subcontractor) personnel: Larry Schwabe / Russ Dibble Buff. Drilling

(Name of contractor) equipment:

(*Indicates active equipment)

Other Subcontractors: Gene Melnyk NYSDEC

VISITORS TO SITE:

1.

PROJECT SCHEDULE ISSUES:

PROJECT BUDGET ISSUES:

ITEMS OF CONCERN:

COMMENTS:

ATTACHMENT(S) TO THIS REPORT:

SITE REPRESENTATIVE:

Name: (*signature*) D. Symonds 5/27/09

cc:

DAILY PHOTOLOG

New York State Department of Environmental Conservation
Immediate Investigation Summary Report

Appendix D

Well Development / Purging Logs
IDW Disposal Documentation

MALCOLM PIRNIE

MALCOLM PIRNIE

WELL PURGING AND SAMPLING LOG

WELL NO.: MW-05-215

PROJECT TITLE: 275 Franklin St.
PROJECT NO.: 026637
DATE: 5/26/09 STAFF: Dwight Symonds
PURGE METHOD: Hand Bailer / Submersible Pump
SAMPLE METHOD: Low flow pump TIME COLLECTED: 1020

PURGING and SAMPLING DATA:

1. Total Casing and Sceen Length (ft.) 23.50'
2. Casing Internal Diameter (in.) 2"
3. Water Level Below Top of Casing (ft.) 9.95'
4. Volume of Water in Casing (gal.) 2.30 gals
5. Photoionization Detector at Wellhaed (ppm) 0.0 ppm

3 well vols - 6.91 gals

(Vol = 0.0408 [(2)² x { (1) - (3) }])

Constants for Calculating Borehole and Well Water Volumes							
Well Diam.	1"	2"	3"	4"	5"	6"	8"
Vol. (gal/ft)	0.04	0.17	0.38	0.66	1.04	1.50	2.60

Low Flow Stabilization Criteria	
pH	+/- 0.1
Cond.	3%
Turb.	10% if > 1 NTU
DO	10%
Temp.	3%
Eh	+/- 10 mV

PARAMETER	ACCUMULATED VOLUME PURGED										
Gallons	*Initial*	5	10	15	20	25	30	35	40	45	50
Time (24 hr. clock)	0900	0915	0930	0935	0940	0950	1000	1005	1010	1015	1020
pH (s.u.)	8.02	7.44	7.20	7.04	6.97	6.90	7.06	6.91	6.89	6.87	6.87
Conductivity (mS/cm)	3.21	3.60	3.54	3.54	3.53	3.69	3.70	3.71	3.70	3.69	3.71
Turbidity (NTUs)	-5.0	-5.0	-5.0	-5.0	442.0	93.0	54.0	38.4	30.5	24.2	26.0
Dissolved Oxygen (mg/l)	2.80	3.17	2.03	1.54	1.73	1.54	1.54	1.56	1.54	1.55	1.55
Temperature (°C)	14.16	12.86	13.31	13.27	13.06	13.19	13.31	13.04	12.97	12.95	13.00
Eh (mV)	116	141	137	138	136	131	130	128	126	123	120
Depth to Water (ft.)	9.95'	10.10'	10.10'	12.10'	12.10'	10.90'	10.90'	10.40'	10.40'	10.40'	10.40
Purge (Flow) Rate											
Appearance											
	Hand Bail			Monsoon Pump							

Notes:
Collected sample @ 1020
DO continually falling

MALCOLM PIRNIE

WELL PURGING AND SAMPLING LOG

WELL NO.: MW-05-21D

PROJECT TITLE: 275 Franklin St.

PROJECT NO.: 0266-377

DATE: 5/26/09 STAFF: Dwight Symonds

PURGE METHOD: Hand Bail / submersable pump

SAMPLE METHOD: Low flow pump TIME COLLECTED: 1200

PURGING and SAMPLING DATA:

1. Total Casing and Sceen Length (ft.) 48 ~~50~~'
2. Casing Internal Diameter (in.) 2"
3. Water Level Below Top of Casing (ft.) 10.50'
4. Volume of Water in Casing (gal.) 6.46 gals
5. Photoionization Detector at Wellhaed (ppm) 0.0 ppm

3 well vols = 19.38 gals

(Vol = 0.0408 [(2)² x { (1) - (3) }])

Constants for Calculating Borehole and Well Water Volumes							
Well Diam.	1"	2"	3"	4"	5"	6"	8"
Vol. (gal/ft)	0.04	0.17	0.38	0.66	1.04	1.50	2.60

Low Flow Stabilization Criteria	
pH	+/- 0.1
Cond.	3%
Turb.	10% if > 1 NTU
DO	10%
Temp.	3%
Eh	+/- 10 mV

PARAMETER	ACCUMULATED VOLUME PURGED										
Gallons	*Initial*	5	10	15	20	30	35	45	55	60	65
Time (24 hr. clock)	1035	1045	1055	1100	1105	1115	1120	1135	1150	1155	1200
pH (s.u.)	7.11	7.12	7.08	6.99	7.07	6.94	6.92	6.90	6.87	6.87	6.87
Conductivity (mS/cm)	1.80	1.83	1.83	2.73	2.81	3.03	3.14	3.20	3.37	3.37	3.37
Turbidity (NTUs)	-5.0	-5.0	-5.0	-5.0	-5.0	540.0	561.0	560.0	176.0	178.0	178.0
Dissolved Oxygen (mg/l)	1.89	1.90	2.43	2.70	2.50	2.22	2.50	1.99	2.02	2.03	2.07
Temperature (°C)	14.47	14.37	14.39	14.47	14.88	14.70	14.85	15.31	14.70	14.75	14.71
Eh (mV)	46	46	13	6	27	-16	-15	-13	-5	-6	-0
Depth to Water (ft.)	10.60'	15.00'	31.00'	29.80'	29.80'	29.80'	29.80'	29.80'	29.80'	29.80'	29.80
Purge (Flow) Rate											
Appearance											

Hand Bail / Monsun Pump

Notes: Collected Sample @ 1200

DO cont. falling

MALCOLM PIRNIE

WELL PURGING AND SAMPLING LOG

WELL NO.: MW-05-22S

PROJECT TITLE: 275 Franklin St.

PROJECT NO.: 0266-377

DATE: 5/26/09 STAFF: Dwight Symmonds

PURGE METHOD: Hand bail / submersible pump

SAMPLE METHOD: low flow pump - TIME COLLECTED: 1350

PURGING and SAMPLING DATA:

1. Total Casing and Sceen Length (ft.) 17.70'
2. Casing Internal Diameter (in.) 2"
3. Water Level Below Top of Casing (ft.) 10.60'
4. Volume of Water in Casing (gal.) 1.29 gals — 3 well vols = 3.876 gals
5. Photoionization Detector at Wellhaed (ppm) 0.0ppm

(Vol = 0.0408 [(2)² x { (1) - (3) }])

Constants for Calculating Borehole and Well Water Volumes							
Well Diam.	1"	2"	3"	4"	5"	6"	8"
Vol. (gal/ft)	0.04	0.17	0.38	0.66	1.04	1.50	2.60

Low Flow Stabilization Criteria	
pH	+/- 0.1
Cond.	3%
Turb.	10% if > 1 NTU
DO	10%
Temp.	3%
Eh	+/- 10 mV

PARAMETER	ACCUMULATED VOLUME PURGED										
Gallons	*Initial*	15	20	25	30	35	40				
Time (24 hr. clock)	1300	1310	1320	1325	1331	1338	1345				
pH (s.u.)	6.85	7.09	7.01	7.01	6.99	6.99	6.97				
Conductivity (mS/cm)	8.01	7.73	7.67	7.59	7.55	7.51	7.49				
Turbidity (NTUs)	5.10	857.0	224.0	85.0	133.0	52.3	44.8				
Dissolved Oxygen (mg/l)	6.50	5.07	4.07	4.03	3.27	3.29	3.29				
Temperature (°C)	13.96	13.38	12.28	12.59	12.70	12.54	12.50				
Eh (mV)	123	117	117	115	114	113	114				
Depth to Water (ft.)	10.10	10.85	10.85	10.85	10.85	10.85	10.85				
Purge (Flow) Rate											
Appearance											

Hand Bail / Monsoon Pump

Notes: Collected Sample @ 1350

MALCOLM PIRNIE

WELL PURGING AND SAMPLING LOG

WELL NO.: MW-05-22D

PROJECT TITLE: 275 Franklin St.
PROJECT NO.: 0266-377
DATE: 5/26/09 STAFF: Dwight Symonds
PURGE METHOD: Hand bail / submersible pump
SAMPLE METHOD: Low flow pump TIME COLLECTED: 1440

PURGING and SAMPLING DATA:

1. Total Casing and Sceen Length (ft.) 48.00'
2. Casing Internal Diameter (in.) 2"
3. Water Level Below Top of Casing (ft.) 10.40'
4. Volume of Water in Casing (gal.) 6.392 gals
5. Photoionization Detector at Wellhaed (ppm) 0 ppm

(Vol = 0.0408 [(2)² x { (1) - (3) }])

Constants for Calculating Borehole and Well Water Volumes							
Well Diam.	1"	2"	3"	4"	5"	6"	8"
Vol. (gal/ft)	0.04	0.17	0.38	0.66	1.04	1.50	2.60

Low Flow Stabilization Criteria	
pH	+/- 0.1
Cond.	3%
Turb.	10% if > 1 NTU
DO	10%
Temp.	3%
Eh	+/- 10 mV

PARAMETER	5 ACCUMULATED VOLUME PURGED										
Gallons	*Initial*	10	20	30	40	50	60				
Time (24 hr. clock)	1355	1402	1410	1418	1424	1430	1435				
pH (s.u.)	7.13	7.12	6.91	6.83	6.82	6.81	6.83				
Conductivity (mS/cm)	3.77	3.77	3.65	3.64	3.61	3.61	3.61				
Turbidity (NTUs)	>5.0	>5.0	453.0	241.0	242.0	228.0	229.0				
Dissolved Oxygen (mg/l)	3.70	3.71	1.80	1.88	1.89	1.85	1.89				
Temperature (°C)	14.91	14.89	15.01	15.01	14.91	14.83	14.82				
Eh (mV)	105	109	95	75	69	67	71				
Depth to Water (ft.)	10.40'	12.50	12.86	12.80'	12.80'	12.80'	12.80'				
Purge (Flow) Rate											
Appearance											

Hand bail / Monsoon Pump

Notes: DO - continously falling ↓

collected Sample @ 1440

MALCOLM PIRNIE

WELL PURGING AND SAMPLING LOG

WELL NO.: MW-05-23S

PROJECT TITLE: 275 Franklin St.
PROJECT NO.: 0266-377
DATE: 5/26/09 STAFF: Dwight Symonds
PURGE METHOD: Hand bail / submersable Pump
SAMPLE METHOD: Low flow pump TIME COLLECTED: 1540

PURGING and SAMPLING DATA:

1. Total Casing and Sceen Length (ft.) 19.00'
2. Casing Internal Diameter (in.) 2"
3. Water Level Below Top of Casing (ft.) 11.10'
4. Volume of Water in Casing (gal.) 1.34 gals
5. Photoionization Detector at Wellhaed (ppm) 0.0 ppm

(Vol = 0.0408 [(2)^2 x { (1) - (3) }])

Constants for Calculating Borehole and Well Water Volumes							
Well Diam.	1"	2"	3"	4"	5"	6"	8"
Vol. (gal/ft)	0.04	0.17	0.38	0.66	1.04	1.50	2.60

Low Flow Stabilization Criteria	
pH	+/- 0.1
Cond.	3%
Turb.	10% if > 1 NTU
DO	10%
Temp.	3%
Eh	+/- 10 mV

PARAMETER	5 ACCUMULATED VOLUME PURGED										
Gallons	*Initial*	10	15	20	25	30					
Time (24 hr. clock)	1500	1515	1521	1525	1530	1535					
pH (s.u.)	7.02	7.02	6.95	6.93	6.91	6.90					
Conductivity (mS/cm)	5.85	5.96	5.94	5.93	5.95	5.97					
Turbidity (NTUs)	>5.0	99.6	66.7	42.0	46.0	44.8					
Dissolved Oxygen (mg/l)	5.61	0.47	0.50	0.52	0.51	0.55					
Temperature (^{0}C)	11.68	10.65	10.76	10.69	10.70	10.69					
Eh (mV)	120	109	102	94	91	89					
Depth to Water (ft.)	11.10	12.00	12.00	12.00	12.00	12.00					
Purge (Flow) Rate											
Appearance											

Hand bail / Marcon Pump

Notes:

Collect sample @ 1540

MALCOLM PIRNIE

WELL PURGING AND SAMPLING LOG

WELL NO.: MW-05 - 23D

PROJECT TITLE: 275 Franklin St.
PROJECT NO.: 0266-377
DATE: 5/27/09 STAFF: Dwight Symonds
PURGE METHOD: Hand bail / Submersable pump
SAMPLE METHOD: Low flow pump TIME COLLECTED: 1000

PURGING and SAMPLING DATA:

1. Total Casing and Sceen Length (ft.) ~48.30'
2. Casing Internal Diameter (in.)
3. Water Level Below Top of Casing (ft.) 11.80'
4. Volume of Water in Casing (gal.)
5. Photoionization Detector at Wellhaed (ppm)

(Vol = 0.0408 [(2)² x { (1) - (3) }])

Constants for Calculating Borehole and Well Water Volumes							
Well Diam.	1"	2"	3"	4"	5"	6"	8"
Vol. (gal/ft)	0.04	0.17	0.38	0.66	1.04	1.50	2.60

Low Flow Stabilization Criteria	
pH	+/- 0.1
Cond.	3%
Turb.	10% if > 1 NTU
DO	10%
Temp.	3%
Eh	+/- 10 mV

PARAMETER	5	ACCUMULATED VOLUME PURGED									
Gallons	*Initial*	10	20	30	40	50	65	75	85		
Time (24 hr. clock)	0850	0858	0905	0910	0915	0920	0930	0939	0949		
pH (s.u.)	7.44	7.19	6.99	6.91	6.85	6.82	6.80	6.77	6.77		
Conductivity (mS/cm)	3.47	3.46	3.45	3.45	3.46	3.47	3.46	3.46	3.46		
Turbidity (NTUs)	-5.0	-5.0	465.0	252.4	231.0	246.4	195.4	208.4	197.0		
Dissolved Oxygen (mg/l)	4.52	3.55	2.85	1.89	1.80	1.76	1.83	1.85	1.86		
Temperature (°C)	14.85	14.55	14.50	14.54	14.53	14.55	14.61	14.67	14.70		
Eh (mV)	175	171	162	154	149	146	138	135	131		
Depth to Water (ft.)	11.60'	12.80'	12.80'	12.80'	12.80'	12.80'	12.80	12.80	12.80		
Purge (Flow) Rate											
Appearance											

handbail / Monsoon pump

Notes: DO continuously decreasing - stabilized near zero
collected Sample @ 1000

MALCOLM PIRNIE

WELL PURGING AND SAMPLING LOG

WELL NO.: MW-05-24S

PROJECT TITLE: 275 Franklin st.
PROJECT NO.: 0266-377
DATE: 5/27/09 STAFF: Dwight Symonds
PURGE METHOD: Hand bail / Submersable Pump
SAMPLE METHOD: low flow pump- TIME COLLECTED:

PURGING and SAMPLING DATA:

1. Total Casing and Sceen Length (ft.) 19.00'
2. Casing Internal Diameter (in.) 2"
3. Water Level Below Top of Casing (ft.) 10.50'
4. Volume of Water in Casing (gal.) 1.44 gal
5. Photoionization Detector at Wellhaed (ppm) 0.0 ppm

(Vol = 0.0408 [(2)² x { (1) - (3) }])

Constants for Calculating Borehole and Well Water Volumes							
Well Diam.	1"	2"	3"	4"	5"	6"	8"
Vol. (gal/ft)	0.04	0.17	0.38	0.66	1.04	1.50	2.60

Low Flow Stabilization Criteria	
pH	+/- 0.1
Cond.	3%
Turb.	10% if > 1 NTU
DO	10%
Temp.	3%
Eh	+/- 10 mV

PARAMETER	5 ACCUMULATED VOLUME PURGED										
Gallons	*Initial*	10	20	30	40						
Time (24 hr. clock)	1150	1155	1201	1207	1214						
pH (s.u.)	6.67	6.67	6.67	6.68	6.67						
Conductivity (mS/cm)	3.03	3.02	3.01	3.02	3.01						
Turbidity (NTUs)	-5.0	-5.0	403.0	109.6	62.2						
Dissolved Oxygen (mg/l)	2.32	2.35	2.19	2.15	2.16						
Temperature (°C)	13.95	13.95	13.52	13.54	13.52						
Eh (mV)	-21	-22	20	32	33						
Depth to Water (ft.)	10.50'	10.70'	10.70	10.72	10.72						
Purge (Flow) Rate											
Appearance											

Hand bail / Submersen pump

Notes:
collected sample @ 1220
collected field duplicate -

MALCOLM PIRNIE

WELL PURGING AND SAMPLING LOG

WELL NO.: MW-05-24D

PROJECT TITLE: 275 Franklin St.
PROJECT NO.: 0266-377
DATE: 5/27/09 STAFF: Dwight Symonds
PURGE METHOD: Hand bail / Submersable Pump
SAMPLE METHOD: low flow pump TIME COLLECTED: 1140

PURGING and SAMPLING DATA:

1. Total Casing and Sceen Length (ft.) 46.50'
2. Casing Internal Diameter (in.) 2"
3. Water Level Below Top of Casing (ft.) 11.10'
4. Volume of Water in Casing (gal.) 6.36 gals
5. Photoionization Detector at Wellhaed (ppm) 00 ppm

(Vol = 0.0408 [(2)² x { (1) - (3) }])

Constants for Calculating Borehole and Well Water Volumes							
Well Diam.	1"	2"	3"	4"	5"	6"	8"
Vol. (gal/ft)	0.04	0.17	0.38	0.66	1.04	1.50	2.60

Low Flow Stabilization Criteria	
pH	+/- 0.1
Cond.	3%
Turb.	10% if > 1 NTU
DO	10%
Temp.	3%
Eh	+/- 10 mV

PARAMETER	ACCUMULATED VOLUME PURGED										
Gallons	*Initial*	10	20	30	40	50	60	70	80		
Time (24 hr. clock)	1025	1035	1045	1055	1100	1110	1117	1127	1135		
pH (s.u.)	7.46	7.19	7.06	6.78	6.71	6.70	6.66	6.66	6.67		
Conductivity (mS/cm)	3.00	3.00	2.99	3.00	3.01	2.95	3.01	3.00	3.00		
Turbidity (NTUs)	>5.0	>5.0	757.0	375.0	280.0	251.0	228.0	201.0	228.0		
Dissolved Oxygen (mg/l)	3.95	2.95	3.41	2.28	2.05	2.25	2.14	1.87	1.87		
Temperature (°C)	15.50	15.36	14.79	14.86	14.73	14.66	14.62	14.57	14.57		
Eh (mV)	35	-6	-31	-50	-52	-47	-48	-49	-49		
Depth to Water (ft.)	11.10	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50		
Purge (Flow) Rate											
Appearance											

Hand bail / Monsoon pump

Notes: DO cont. ↓ Decreasing.
Collected Sample @ 1140 - collected MS & MSD

MODERN CORPORATION

Since 1964

A Full Service Solid Waste Disposal Company

INVOICE

S

Modern Landfill, Inc.
4746 Model City Road
P.O. Box 209
Model City, NY 14107-0209
(716) 754-8226

Invoice Number: 2338378
Date: 07/11/09
Terms: Net 10 Days
Purchase Order #:

Bill To:

OP-TECH ENVIRONMENTAL
ATTN: A/P
6392 DEERE ROAD
SYRACUSE,NY 13206

Service Address:

OP-TECH ENVIRONMENTAL-NYSDEC
275 FRANKLIN ST
BUFFALO, NY 14202

Service Number: 17271.034
Customer Number: 17271.000

07/01/09	4.26 TN INDUSTRIAL WASTE	1690007	50.00	.00	213.00

Sales Tax:
Invoice Total: 213.00

MODERN CORPORATION

P.O. BOX 209 MODEL CITY, NEW YORK 14107
LANDFILL SITE - HAROLD & PLETCHER RD.
LEWISTON, NEW YORK

TICKET: 1690007
DATE IN: 07/01/09 11:22:55
DATE OUT: 07/01/09 11:41:24
TRUCK: 905
HAULER: OP-TECH ENVIRONMENTA
GENERATOR: 17271.034
OP-TECH ENVIRONMENTAL-NYSDEC
275 FRANKLIN ST

BILL TO: 17271.000
OP-TECH ENVIRONMENTAL
COMMODITY: 0100-0000 INDUSTRIAL WASTE
HAULER TICKET:
GROSS WEIGHT: 18,440.00
TARE WEIGHT: 9,920.00
NET WEIGHT: 8,520.00
TONS: 4.26

To the best of my knowledge, the waste stream(s) indicated on this ticket contain(s) no hazardous or unacceptable waste and has been packaged and transported in accordance with all applicable state and federal regulations. Any person accepting this ticket assumes all risk of accident and expressly agrees that Modern Landfill Inc. shall not be liable under any circumstances for any injury to person, loss or damage and also agrees to indemnify and hold harmless Modern Landfill Inc. and its employees. Additionaly, I hearby acknowledge that I have read and understand conditions or statements indicated below.

ALL CUSTOMERS/TRANSPORTERS MUST COMPLY WITH THE FOLLOWING RULES IN ORDER TO UTILIZE MODERN LANDFILL INC.:

- NO SMOKING BEYOND LANDFILL GATE EXCEPT IN DESIGNATED SMOKING AREAS

- SAFETY GLASSES AND HARD HAT MUST BE WORN UPON ENTERING GATE

- ALL MODERN LANDFILL INC. RULES AND REGULATIONS MUST BE OBSERVED INCLUDING BUT NOT LIMITED TO, SITE SPEED LIMIT, DUMPING AREA, TRUCK WASH, SAFETY, AND OBEYING DIRECTION FROM SITE PERSONNEL.

WEIGHMASTER SIGNATURE

CUSTOMER SIGNATURE

New York State Department of Environmental Conservation
Immediate Investigation Summary Report

Appendix E

Data Usability Summary Report / Form I Laboratory Data

MALCOLM PIRNIE

Data Validation Services

120 Cobble Creek Road P.O. Box 208
North Creek, NY 12853

Phone 518-251-4429
Facsimile 518-251-4428

July 28, 2009

John Hilton
Malcolm Pirnie, Inc.
50 Fountain Plaza
Buffalo, NY 14202

RE: 275 Franklin St. site
Data Usability Summary Report (DUSR)
Chemtech SDG Nos. A2790, A2837, and A2908
Con-test SDG LIMT-23619
Columbia Analytical Services (CAS) SDG Nos. P0801622 and R2846926

Dear Mr. Hilton:

Review has been completed for the data packages generated by CAS, Con-test, and Chemtech Laboratories that pertain to samples collected 5/21/08 through5/27/09 at the 275 Franklin St. site. Eight soil samples, eight aqueous samples, and an aqueous field duplicate were processed for TCL volatiles by USEPA SW846 method 8260B. Eight air samples and a field duplicate were processed for thirteen site-specific compounds by method USEPA TO-15. Five air samples were analyzed a full volatile list for TO-15. Trip blanks were also processed.

The data packages submitted contained full deliverables for validation, but this usability report is primarily generated from review of the summary form information, with full review of sample raw data, and limited review of associated QC raw data. Full validation has not been performed. However, the reported summary forms have been reviewed for application of validation qualifiers, per the USEPA Region 2 validation SOPs and the USEPA CLP National Functional Guidelines for Data Review, with consideration of the requirements of the project QAPP and the specific analytical methodologies. The following items were reviewed:

* Laboratory Narrative Discussion
* Case Narratives
* Custody Documentation
* Holding Times
* Surrogate and Internal Standard Recoveries
* Matrix Spike Recoveries/Duplicate Correlations
* Preparation/Calibration Blanks
* Matrix Spiked Blanks/Laboratory Control Samples (LCSs)
* Instrumental Tunes
* Calibration Standards
* Method Compliance
* Sample Result Verification

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for this level of review.

In summary, results for the target analytes in the samples are usable as reported, or usable with minor qualification due to sample matrix or to processing outliers.

Copies of the sample identification summaries and laboratory case narratives are attached to this text, and should be reviewed in conjunction with this report. Also included with this report are validation qualifier definitions and red-ink qualified client results tables/laboratory report forms.

The following text discusses quality issues of concern.

Chain-of-Custody/Sample Receipt

No collection date was entered onto the custody for sample C915208-OS-SB-MW-21D 44'-46'.

The collection and release date year entries were not present on the custody for air samples collected 05/29/09. The year was present on the laboratory receive date. The collection date year entries were not present on the custody for air samples collected 10/29/08. The year was present on the release and laboratory receive dates.

The down-arrow was omitted from the matrix column on the custody for samples collected 05/20/09.

Data Package Completeness

The soil sample client ID on the data package Forms 1 are truncated, and do not show the depth. This results in Forms 1 with duplicate client IDs for samples.

Clean canister certification data were not provided. These would be required for full validation.

Raw data should have been denoted with client ID.

General

On the organic sample results forms, the reporting limit for undetected compounds in the "Conc" field should reflect "RL values, not "MDL" values.

The aqueous blind field duplicate evaluation on C915208-OS-GW- MW-24S and the air blind field duplicate evaluation on CS-1 show acceptable correlations, with the exception of that for trichloroethene (86%RPD) in C915208-OS-GW- MW-24S. The results for that compound in the parent sample and its field duplicate have been qualified as estimated in value.

TCL Volatiles by EPA 8260B

Results for analytes initially reported with the laboratory "E" flag are derived from the dilution analyses of the samples.

Naphthalene was detected (and reported as a Tentatively Identified Compound (TIC)) in several soil samples and their associated preparation blank. The amounts of that compound found in the sample analyses were similar to those of the blank, when evaluated at the instrument level. Therefore, those sample detections are considered external contamination, and results for that compound have been rejected from consideration as a sample component. The laboratory should have flagged that TIC in the samples as "B".

The matrix spikes (MS/MSD) of C915208-OS-SB-MW-21D-18-20, C915208-OS-SB-MW-24D-44-46, and C915208-OS-GW- MW-24S show acceptable accuracy and precision within validation guidelines.

Methyl acetate and 1,2,4-trichlorobenzene show low recoveries (58% and 65%) in the LCS associated with the analysis of the trip blank reported in A2790. The results for that compound in the blank have been qualified as estimated in value.

Calibrations standard responses were within laboratory and validation guidelines, with the following exceptions, results for which are qualified as estimated, with a possible low bias (unless indicated otherwise), in the indicated samples:

- acetone (low RRF) in the soil samples collected 5/20/09
- tetrachloroethene (24%D) in C915208-OS-SB-MW-21D-18-20, C915208-OS-SB-MW-21D-44-46, and C915208-OS-SB-MW-22D-44-46

The soil samples were processed at fivefold dilution, although the raw data do not show matrix interfereces. This results in unnecessary proportionally elevated reporting limits for analytes not detected in those samples.

Volatiles by EPA TO-15

Holding times were met. Surrogate and internal standard responses were compliant. Instrument tunes meet fragmentation requirements.

Detected results of methylene chloride in the samples collected 10/29/08, and of acetone and methylene chloride in the samples collected 02/23/09 and 02/24/09 are considered external contamination due to presence in the associated method blanks. Those results have been edited to reflect non-detection.

Calibration standard responses are within protocol and validation guidelines, with the following exceptions, results for which have been qualified as estimated ("J") in the indicated associated samples:

- propene, acetone, and ethanol (37%RSD to 42%RSD) in the samples collected 06/18/09
- 1,2-dichloropropane (33%D) in the samples collected 06/18/09

The detection of o-xylene in Franklin BA1 is qualified as tentative in identification and estimated in value due to poor mass spectral quality.

Recoveries for all analytes in the Laboratory Control Samples (LCSs) are within laboratory and validation guidelines. No laboratory duplicates evaluations were performed.

Some of the samples were processed at initial dilution due to high concentration of target analytes. This results in proportionally elevated reporting limits for analytes not detected in those samples.

Please do not hesitate to contact me if you have comments or questions regarding this report.

Very truly yours,

Judy Harry

Att

VALIDATION DATA QUALIFIER DEFINITIONS

U - The compound was analyzed for, but was not detected above the level of the associated value.

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

UJ - The compound was not detected. The associated reporting limit is an estimate and may be inaccurate or imprecise.

NJ - The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.

R - The data are unusable. The analyte may or may not be present.

EMPC - The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

CLIENT and LABORATORY SAMPLE IDs and CASE NARRATIVES

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY

Customer Sample Code	Laboratory Sample Code	Analytical					
		*VOA GC/MS Method #	*BNA GC/MS Method #	*VOA GC Method #	*Pest PCBs Method #	*Metals	*Other
275 Franklin OA	P0801622-001	EPA TO-15					
275 Franklin FA	P0801622-002	EPA TO-15					
275 Franklin CS	P0801622-003	EPA TO-15					
275 Franklin Dup	P0801622-004	EPA TO-15					

CAS ASP/CLP BATCHING FORM / LOGIN SHEET

SDG#: 267 FRANKLIN SS
SUBMISSION R2846926
CLIENT: Malcolm Pirnie, Inc.
CLIENT REP: Janice Jaeger
PROJECT: FRANKLIN PROJECT #0266-377

BATCH COMPLETE: __yes_____
DISKETTE REQUESTED: Y___ N__X__
DATE: 11/3/08
CUSTODY SEAL: PRESENT/ABSENT: P
CHAIN OF CUSTODY: PRESENT/ABSENT: P

DATE REVISED:
DATE DUE: 11/20/08
PROTOCOL: to-15
SHIPPING No.:

CAS JOB #	CLIENT/EPA ID	MATRIX	REQUESTED PARAMETERS	DATE SAMPLED	DATE RECEIVED	pH (SOLIDS)	% SOLIDS	REMARKS AMPLE CONDITION
1150195	267 FRANKLIN SS	AIR	TO-15	10/29/2008	10/30/2008			
1150196	267 FRANKLIN BA1	AIR	TO-15	10/29/2008	10/30/2008			
1150197	267 FRANKLIN BA2	AIR	TO-15	10/29/2008	10/30/2008			
1150198	267 FRANKLIN BA3	AIR	TO-15	10/29/2008	10/30/2008			
1150201	267 FRANKLIN OA	AIR	TO-15	10/29/2008	10/30/2008			

00005

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REPORT DATE 3/5/2009

MALCOLM PIRNIE - BUFFALO
50 FOUNTAIN PLAZA
BUFFALO, NY 14202
ATTN: JIM RICHERT

CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER: 0266377

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-23619
JOB NUMBER: 0266377

PROJECT LOCATION: BUFFALO-NY

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	Subcontract Lab (if any) Cert. Nos.
FRANKLIN BA1	09B06190	AIR	Not Specified	to-15 ppbv	
FRANKLIN BA1	09B06190	AIR	Not Specified	to-15 ug/m3	
FRANKLIN BA2	09B06191	AIR	Not Specified	to-15 ppbv	
FRANKLIN BA2	09B06191	AIR	Not Specified	to-15 ug/m3	
FRANKLIN BA3	09B06192	AIR	Not Specified	to-15 ppbv	
FRANKLIN BA3	09B06192	AIR	Not Specified	to-15 ug/m3	
FRANKLIN OA	09B06193	AIR	Not Specified	to-15 ppbv	
FRANKLIN OA	09B06193	AIR	Not Specified	to-15 ug/m3	
FRANKLIN SS	09B06189	AIR	Not Specified	to-15 ppbv	
FRANKLIN SS	09B06189	AIR	Not Specified	to-15 ug/m3	

CHEMTECH
284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Cover Page

Order ID : A2790

Project ID : 275 Franklin Street

Client : Malcolm Pirnie

Lab Sample Number	Client Sample Number
A2790-01	C915208-OS-SB-MW-21D-18-20
A2790-02	C915208-OS-SB-MW-21D-44-46
A2790-03	C915208-OS-SB-MW-22D-18-20
A2790-04	C915208-OS-SB-MW-22D-44-46
A2790-05	TB-5-15-09

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : Mildred V Reyes

Mildred V. Reyes
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NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CHEMTECH
284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Cover Page

Order ID : A2837

Project ID : 275 Franklin Street

Client : Malcolm Pirnie

Lab Sample Number	Client Sample Number
A2837-01	C915208-OS-SB-MW-23D-18-20
A2837-02	C915208-OS-SB-MW-23D-44-46
A2837-03	C915208-OS-SB-MW-24D-10-12
A2837-04	C915208-OS-SB-MW-24D-44-46
A2837-05	A2837-04MS
A2837-06	A2837-04MSD
A2837-07	TRIPBLANK

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

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

Cover Page

Order ID : A2908

Project ID : 275 Franklin Street

Client : Malcolm Pirnie

Lab Sample Number	Client Sample Number
A2908-01	C915208-OS-GW-MW-21S
A2908-02	C915208-OS-GW-MW-21D
A2908-03	C915208-OS-GW-MW-22S
A2908-04	C915208-OS-GW-MW-22D
A2908-05	C915208-OS-GW-MW-23S
A2908-06	C915208-OS-GW-MW-23D
A2908-07	C915208-OS-GW-MW-24D
A2908-08	A2908-07MS
A2908-09	A2908-07MSD
A2908-10	C915208-OS-GW-MW-24S
A2908-11	FIELDDUPLICATE
A2908-12	TRIPBLANK

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : Mildred V Reyes

Mildred V. Reyes
I am approving this document
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2655 Park Center Drive, Suite A Simi Valley, California 93065 (805) 526-7161 (805) 526-7270 fax

Columbia Analytical Services INC.
An Employee - Owned Company

Client:	Malcolm Pirnie, Incorporated	CAS Project No:	P0801622
Project:	275 Franklin St. / 0266 377	New York Lab ID:	11221

CASE NARRATIVE

The samples were received intact under chain of custody on May 30, 2008 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for selected volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.

CASE NARRATIVE

COMPANY: Malcolm Pirnie
Franklin Project #0266-377
SUBMISSION #: R2846926

Malcolm Pirnie samples were collected on 10/29/08 and received at CAS on 10/30/08 in good condition.

VOLATILE ORGANICS

Five air samples were analyzed for a site specific list of Volatiles by method TO-15.

All Tuning criteria were met.

All the initial and continuing calibration criteria were met for all analytes.

All internal standard areas were within QC limits.

All surrogate standard recoveries were within acceptance limits.

All Reference spike recoveries were within limits.

The Laboratory Blanks associated with these analyses were free of contamination except the 11/15/08 blank contained a low level hit for Methylene chloride. All affected data has been flagged with a "B".

All samples were analyzed within recommended holding times.

No other analytical or QC problems were encountered.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the details conditioned above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

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REPORT DATE 3/5/2009

MALCOLM PIRNIE - BUFFALO
50 FOUNTAIN PLAZA
BUFFALO, NY 14202
ATTN: JIM RICHERT

CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER: 0266377

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-23619
JOB NUMBER: 0266377

Comments :

LIMS BATCH NO. : LIMT-23619

CASE NARRATIVE SUMMARY

In method TO-15, method blank-130185 contained Acetone at 0.94 ppbv = 2.2 ug/m3, and 2-Butanone(MEK) at 0.12 ppbv = 0.36 ug/m3.

In method TO-15, any reported result for 1,2-Dichloropropane is estimated and likely to be biased on the low side based on continuing calibration bias.

In method TO-15, any reported result for 1,2-Dichloropropane is likely to be biased on the low side based on laboratory fortified blank recovery bias.

In method TO-15, any reported result for 1,1,2-Trichloro-1,2,2-trifluoroethane is likely to be biased on the high side based on laboratory fortified blank recovery bias.

There are no other analytical issues that affect the usability of the data.

METHOD TO-15 - ADDITIONAL DETAILS

All TO-15 samples were analyzed undiluted unless specified below:
If dilutions were performed only one dilution within the linear calibrated region of the curve is reported.

Sample	Dilution	Compound(s)
09B06189	2x	All
09B06190	0.7x=570ml sample	All
09B06191	0.7x=570ml sample	All
09B06192	0.7x=570ml sample	Most
	20x	tetrachloroethylene, ethanol
09B06193	0.7x=570ml sample	All
blank-130185	0.7x=570ml sample	All

In method TO-15, for 1,2,4-Trichlorobenzene, data is not affected by continuing calibration non-conformance since bias is on the high side and all results are "not detected".

In method TO-15, data is not affected by laboratory fortified blank recovery outlier(s) for Bromoform and 1,2,4-Trichlorobenzene since all results are "not detected" and recovery bias is on the high side.

The results of analyses performed are based on samples as submitted to the laboratory and relate only to the items collected and tested.

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations. AIHA accreditations only apply to NIOSH methods and Environmental Lead Analyses.

AIHA 100033	AIHA ELLAP (LEAD) 100033	NORTH CAROLINA CERT. # 652
MASSACHUSETTS MA0100	NEW HAMPSHIRE NELAP 2516	NEW JERSEY NELAP NJ MA007 (AIR)
CONNECTICUT PH-0567	VERMONT DOH (LEAD) No. LL015036	FLORIDA DOH E871027 (AIR)
NEW YORK ELAP/NELAP 10899	RHODE ISLAND (LIC. No. 112)	

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

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REPORT DATE 3/5/2009

MALCOLM PIRNIE - BUFFALO
50 FOUNTAIN PLAZA
BUFFALO, NY 14202
ATTN: JIM RICHERT

CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER: 0266377

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-23619
JOB NUMBER: 0266377

Tod Kopyscinski 3/5/09
SIGNATURE DATE

Tod Kopyscinski
Air Laboratory Manager

Michael Erickson
Assistant Laboratory Director

Edward Denson
Technical Director

Daren Damboragian
Organics Department Supervisor

* See end of data tabulation for notes and comments pertaining to this sample

CHEMTECH

CASE NARRATIVE

Malcolm Pirnie
Project Name: 275 Franklin Street
Project # N/A
Chemtech Project # A2790

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 5/18/09.
1 Water sample was received on 5/18/09.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOC-TCLVOA-10, and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA K were done using GC column RTX-VMS which is 20 meters, 0.18 ID, 1.0 df, Restek Cat. #49914. The Trap was supplied by OI Analytical, OI #10 Trap , OI 4560 Concentrator.The analysis performed on instrument MSVOA G were done using GC column RTX-VMS which is 20 meters, 0.18 ID, 1.0 df, Restek Cat. #49914. The Trap was supplied by OI Analytical, OI #10 Trap , OI Eclipse 4660 Concentrator.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds except for 1,2-Dichloroethane and t-1,3-Dichloropropene.
The MSD recoveries met the acceptable requirements.
The RPD recoveries met criteria except for Bromomethane and Methyl Acetate.
The Blank Spike met requirements for all samples except for Methyl Acetate and 1,2,4-Trichlorobenzene.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Tuning criteria met requirements.

E. Additional Comments:
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20 % for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20 % for the Initial Calibration curve for SW-846 analysis.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature Mildred V Reyes

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CHEMTECH

CASE NARRATIVE

Malcolm Pirnie
Project Name: 275 Franklin Street
Project # N/A
Chemtech Project # A2837

A. Number of Samples and Date of Receipt:
1 Solid sample was received on 5/21/09.
6 Solid samples were received on 5/21/09.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA G were done using GC column RTX-VMS which is 20 meters, 0.18 ID, 1.0 df, Restek Cat. #49914. The Trap was supplied by OI Analytical, OI #10 Trap , OI Eclipse 4660 Concentrator.The analysis performed on instrument MSVOA D were done using GC column RTX-VMS which is 20 meters, 0.18 ID, 1.0 df, Restek Cat. #49914. The Trap was supplied by OI Analytical, OI #10 Trap , OI Eclipse 4660 Concentrator.
The analysis of TCL Volatiles + 10 was based on method 8260.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements except for 1,2-Dichlorobenzene.
The RPD recoveries met criteria except for Bromomethane and Chloroethane.
The Blank Spike met requirements for all samples except for 4-Methyl-2-Pentanone and Methyl Acetate but it was not detected in Samples.
The Blank Spike RPD recoveries met criteria except for Bromomethane and Methyl Acetate.
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements except for Methyl Acetate.
The Continuing Calibration met the requirements except for Chloroethane but it was not detected in Samples.
The Tuning criteria met requirements.

E. Additional Comments:
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial

Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature Mildred V Reyes

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CHEMTECH

CASE NARRATIVE

Malcolm Pirnie
Project Name: 275 Franklin Street
Project # N/A
Chemtech Project # A2908

A. Number of Samples and Date of Receipt:
12 Water samples were received on 5/28/09.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA G were done using GC column RTX-VMS which is 20 meters, 0.18 ID, 1.0 df, Restek Cat. #49914. The Trap was supplied by OI Analytical, OI #10 Trap , OI Eclipse 4660 Concentrator.The analysis performed on instrument MSVOA D were done using GC column RTX-VMS which is 20 meters, 0.18 ID, 1.0 df, Restek Cat. #49914. The Trap was supplied by OI Analytical, OI #10 Trap , OI Eclipse 4660 Concentrator.
The analysis of TCL Volatiles + 10 was based on method 8260.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements.
The RPD recoveries met criteria except for Acetone.
The Blank Spike met requirements for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Continuing Calibration met the requirements except for Tetrachloroethene and 1,1-Dichloroethene.
The Tuning criteria met requirements.
Samples C915208-OS-GW-MW-23S, C915208-OS-GW-MW-24S and FIELDDUPLICATE were diluted due to high concentrations.

E. Additional Comments:
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

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QUALIFIED CLIENT RESULTS TABLES

275 Franklin Street Site

Table 1
Summary of Indoor Air Sampling Results
267/275 Franklin Street Site
Buffalo, New York

Compound	NYSDOH Air Matrix Guidance Values ug/m³	SAMPLE LOCATION @ 275 Franklin				SAMPLE LOCATIONs @ 267 Franklin									
		OA [5] 5/29/08 µg/m³	FA[6] 5/29/08 µg/m³	CS[7] 5/29/08 µg/m³	FD[8] 5/29/08 µg/m³	OA [X] 10/29/08 µg/m³	OA [X] 02/24/09 µg/m³	SS [X] 10/29/08 µg/m³	SS [X] 02/24/09 µg/m³	BA1 [X] 10/29/08 µg/m³	BA1 [X] 02/24/09 µg/m³	BA2 [X] 10/29/08 µg/m³	BA3 [X] 02/24/09 µg/m³	BA3 [X] 10/29/08 µg/m³	BA2 [X] 02/24/09 µg/m³
Acetone							~~83~~ UJ		~~10~~ UJ		~~9.5~~ UJ		~~13~~ UJ		~~14~~ UJ
2-Butanone (MEK)							~~22~~ U		~~2.6~~ U		~~2.5~~ U		~~2.3~~ U		~~2.9~~ U
Carbon Disulfide															0.25
Carbon Tetrachloride							0.45				0.48		0.47		0.47
Chloroform													0.36		
Chloromethane							1.1				1		0.96		0.93
Cyclohexane															0.97
1,4-Dichlorobenzene											0.25				
Dichlorodifluoromethane							2.6		2.6		2.6		2.6		2.6
Ethanol							5.1 J		12 J		35 J		96 J		33 J
Ethyl Acetate													1.6		1.1
4-Ethyl Toluene									0.59		0.34				
n-Heptane											0.27		0.19		0.54
Hexane							0.63				1.7		1.4		4.3
2-Hexanone							0.23				0.3		0.29		0.34
Isopropanol							0.61		3.2		1.3		3.4		5.4
Trichlorofluoromethane							1.5		1.9		1.9		1.9		1.7
1,1,2 Trichloro-1,2,2-Trifluroethane							0.64				0.68		0.7		0.7
1,2,4 Trimethylbenzene							0.22		2.3		1.2		0.18		0.49
1,3,5 Trimethylbenzene									0.63		0.36				
4-Methyl 2 Pentanone															0.19
Tetrahydrofuran															0.36
Styrene									0.54						
1,1,2,2 Tetrachloroethane									4						
Vinyl Chloride	< 5 [3]														
1,1-Dichloroethane															
1,2-Dichloroethane															0.16
Methylene Chloride			28			~~22 JB~~ U	1.5		5	~~1.5 JB~~ U	3.3		4.2	~~95 JB~~ U	5.8
trans-1,2-Dichloroethene															
cis-1,2-Dichloroethene	< 100 [4]							0.81 J		20		12	1.4	18	0.72
1,1,1-Trichloroethane	< 100 [2]														
Benzene			2.6			0.46	0.58	0.35 J	0.64	1.1 J	0.7	.76 J	0.63	.55 J	0.65
Trichloroethene	< 5 [1]		1.1	0.26	0.25	0.21		17	1.9	13	0.26	7	1.4	11	0.8
Toluene		1.1	29	0.97	1	1.1	0.86	42	6.6	4.1 J	1.4	1.8 J	1.7	1.6 J	4.3
Tetrachloroethene	< 100 [2]		93	20	19	.12 J		340	18	1200	19	670	180	900	97
Ethyl Benzene			16				0.17	2.1 J	1.4		0.23		0.23		0.85
m,p-Xylene			47	1.1	1.4	.98 J	0.55	1.9	4.6	1.8 J	0.78	.87 J	0.71		3.1
o-Xylene			110	1.6	1.8	.65 J	0.22	0.95	1.9		0.35 NJ		0.3		0.5

Notes:

1) NYSDOH Soil Vapor / Indoor Air Matrix 1
2) NYSDOH Soil Vapor / Indoor Air Matrix 2
3) Proposed NYSDOH Soil Vapor / Indoor Air Matrix 1
4) Proposed NYSDOH Soil Vapor / Indoor Air Matrix 2
5) OA = Outdoor Ambient Air
6) FF = First Floor Indoor Air
7) CS = Crawl Space Indoor Air
8) Crawl Space Field Duplicate

Samples collected May 29, 2008

Highlighted concentrations indicated value(s) that exceed NYSDOH Air Matrix criteria
Blank - Not detected at method detection limit.

Note:
Blank - Not detected at method detection limit.

TABLE 5-2
SUMMARY OF ANALYTICAL RESULTS - SUBSURFACE SOILS
IIWA Borehole Sampling Program
275 Franklin Street SITE
Buffalo, NEW YORK

Sample ID		C915208-OS-SB-MW-21D-18-20	C915208-OS-SB-MW-21D-44-46	C915208-OS-SB-MW-22D-18-20	C915208-OS-SB-MW-22D-44-46	TB-5-15-09	C915208-OS-SB-MW-23D-18-20	C915208-OS-SB-MW-23D-44-46	C915208-OS-SB-MW-24D-10-12	C915208-OS-SB-MW-24D-44-46	TRIPBLANK
Lab Sample Number		A2790-01	A2790-02	A2790-03	A2790-04	A2790-05	A2837-01	A2837-02	A2837-03	A2837-04	A2837-07
Sampling Date		5/12/2009	5/12/2009	5/14/2009	5/15/2009	5/15/2009	5/18/2009	5/18/2009	5/20/2009	5/20/2009	5/20/2009
Matrix		SOIL	SOIL	SOIL	SOIL	WATER	SOIL	SOIL	SOIL	SOIL	WATER
Dilution Factor		1	1	1	1	1	1	1	1	1	1
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/L	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/L
COMPOUND	CAS #										
1,1,1-Trichloroethane	71-55-6	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
1,1,2,2-Tetrachloroethane	79-34-5	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
1,1,2-Trichloroethane	79-00-5	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
1,1,2-Trichlorotrifluoroethane	76-13-1	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
1,1-Dichloroethane	75-34-3	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
1,1-Dichloroethene	75-35-4	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
1,2,4-Trichlorobenzene	120-82-1	30 U	30 U	31 U	34 U	5 U UJ	30 U	31 U	30 U	30 U	5 U
1,2-Dibromo-3-Chloropropane	96-12-8	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
1,2-Dibromoethane	106-93-4	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
1,2-Dichlorobenzene	95-50-1	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
1,2-Dichloroethane	107-06-2	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
1,2-Dichloropropane	78-87-5	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
1,3-Dichlorobenzene	541-73-1	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
1,4-Dichlorobenzene	106-46-7	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
2-Butanone	78-93-3	150 U	150 U	150 U	170 U	25 U	150 U	150 U	150 U	150 U	25 U
2-Hexanone	591-78-6	150 U	150 U	150 U	170 U	25 U	150 U	150 U	150 U	150 U	25 U
4-Methyl-2-Pentanone	108-10-1	150 U	150 U	150 U	170 U	25 U	150 U	150 U	150 U	150 U	25 U UJ
Acetone	67-64-1	150 U	150 U	150 U	170 U	25 U	150 U UJ	150 U UJ	150 U UJ	150 U UJ	25 U
Benzene	71-43-2	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
Bromodichloromethane	75-27-4	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
Bromoform	75-25-2	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
Bromomethane	74-83-9	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
Carbon Disulfide	75-15-0	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
Carbon Tetrachloride	56-23-5	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
Chlorobenzene	108-90-7	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
Chloroethane	75-00-3	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
Chloroform	67-66-3	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
Chloromethane	74-87-3	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
cis-1,2-Dichloroethene	156-59-2	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
cis-1,3-Dichloropropene	10061-01-5	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
Cyclohexane	110-82-7	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
Dibromochloromethane	124-48-1	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
Dichlorodifluoromethane	75-71-8	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
Ethyl Benzene	100-41-4	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
Isopropylbenzene	98-82-8	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
m/p-Xylenes	179601-23-1	60 U	61 U	62 U	68 U	10 U	60 U	62 U	61 U	60 U	10 U
Methyl Acetate	79-20-9	30 U	30 U	31 U	34 U	5 U UJ	30 U	31 U	30 U	30 U	5 U UJ
Methyl tert-butyl Ether	1634-04-4	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
Methylcyclohexane	108-87-2	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
Methylene Chloride	75-09-2	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
o-Xylene	95-47-6	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
Styrene	100-42-5	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
t-1,3-Dichloropropene	10061-02-6	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
Tetrachloroethene	127-18-4	30 U	30 U	31 U	34 U	5 U	18 J J	31 U UJ	330	30 U UJ	5 U
Toluene	108-88-3	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
trans-1,2-Dichloroethene	156-60-5	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
Trichloroethene	79-01-6	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
Trichlorofluoromethane	75-69-4	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
Vinyl Chloride	75-01-4	30 U	30 U	31 U	34 U	5 U	30 U	31 U	30 U	30 U	5 U
Total TICs											
Naphthalene							~~78~~ J R	~~57~~ J R	~~93~~ R	~~47~~ J R	

Qualifiers

U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
E (Organics) - indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
E (Inorganics) - The reported value is estimated because of the presence of interference.
D - The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
NR - Not analyzed

TABLE 2-3
SUMMARY OF ANALYTICAL RESULTS - GROUNDWATER
IIWA Borehole Sampling Program
275 Franklin Street SITE
Buffalo, NEW YORK

Sample ID		C915208-OS-GW-MW-21S	C915208-OS-GW-MW-21D	C915208-OS-GW-MW-22S	C915208-OS-GW-MW-22D	C915208-OS-GW-MW-23S	C915208-OS-GW-MW-23SDL	C915208-OS-GW-MW-23D	C915208-OS-GW-MW-24D	C915208-OS-GW-MW-24S	C915208-OS-GW-MW-24SDL	FIELDDUPLICATE	FIELDDUPLICATEDL	TRIPBLANK
Lab Sample Number		A2908-01	A2908-02	A2908-03	A2908-04	A2908-05	A2908-05DL	A2908-06	A2908-07	A2908-10	A2908-10DL	A2908-11	A2908-11DL	A2908-12
Sampling Date		5/26/2009	5/26/2009	5/26/2009	5/26/2009	5/26/2009	5/26/2009	5/27/2009	5/27/2009	5/27/2009	5/27/2009	5/27/2009	5/27/2009	5/27/2009
Matrix		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor		1	1	1	1	1	20	1	1	1	5	1	5	1
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
COMPOUND	CAS #													
1,1,1-Trichloroethane	71-55-6	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	8 U	0.4 U	0.4 U	0.4 U	2 U	0.4 U	2 U	0.4 U
1,1,2,2-Tetrachloroethane	79-34-5	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	6.2 U	0.31 U	0.31 U	0.31 U	1.6 U	0.31 U	1.6 U	0.31 U
1,1,2-Trichloroethane	79-00-5	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	7.6 U	0.38 U	0.38 U	0.38 U	1.9 U	0.38 U	1.9 U	0.38 U
1,1,2-Trichlorotrifluoroethane	76-13-1	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	9 U	0.45 U	0.45 U	0.45 U	2.2 U	0.45 U	2.2 U	0.45 U
1,1-Dichloroethane	75-34-3	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	7.2 U	0.36 U	0.36 U	0.36 U	1.8 U	0.36 U	1.8 U	0.36 U
1,1-Dichloroethene	75-35-4	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	9.4 U	0.47 U	0.47 U	0.47 U	2.4 U	0.47 U	2.4 U	0.47 U
1,2,4-Trichlorobenzene	120-82-1	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	12 U	0.62 U	0.62 U	0.62 U	3.1 U	0.62 U	3.1 U	0.62 U
1,2-Dibromo-3-Chloropropane	96-12-8	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	9.2 U	0.46 U	0.46 U	0.46 U	2.3 U	0.46 U	2.3 U	0.46 U
1,2-Dibromoethane	106-93-4	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	8.2 U	0.41 U	0.41 U	0.41 U	2 U	0.41 U	2 U	0.41 U
1,2-Dichlorobenzene	95-50-1	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	9 U	0.45 U	0.45 U	0.45 U	2.2 U	0.45 U	2.2 U	0.45 U
1,2-Dichloroethane	107-06-2	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	9.6 U	0.48 U	0.48 U	0.48 U	2.4 U	0.48 U	2.4 U	0.48 U
1,2-Dichloropropane	78-87-5	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	9.2 U	0.46 U	0.46 U	0.46 U	2.3 U	0.46 U	2.3 U	0.46 U
1,3-Dichlorobenzene	541-73-1	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	8.6 U	0.43 U	0.43 U	0.43 U	2.2 U	0.43 U	2.2 U	0.43 U
1,4-Dichlorobenzene	106-46-7	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	6.4 U	0.32 U	0.32 U	0.32 U	1.6 U	0.32 U	1.6 U	0.32 U
2-Butanone	78-93-3	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	26 U	1.3 U	1.3 U	1.3 U	6.6 U	1.3 U	6.6 U	1.3 U
2-Hexanone	591-78-6	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	39 U	1.9 U	1.9 U	1.9 U	9.7 U	1.9 U	9.7 U	1.9 U
4-Methyl-2-Pentanone	108-10-1	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	42 U	2.1 U	2.1 U	2.1 U	10 U	2.1 U	10 U	2.1 U
Acetone	67-64-1	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	55 U	2.8 U	2.8 U	2.8 U	14 U	2.8 U	14 U	2.8 U
Benzene	71-43-2	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	6.4 U	0.32 U	0.32 U	0.32 U	1.6 U	0.32 U	1.6 U	0.32 U
Bromodichloromethane	75-27-4	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	7.2 U	0.36 U	0.36 U	0.36 U	1.8 U	0.36 U	1.8 U	0.36 U
Bromoform	75-25-2	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	9.4 U	0.47 U	0.47 U	0.47 U	2.4 U	0.47 U	2.4 U	0.47 U
Bromomethane	74-83-9	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	12 U	0.62 U	0.62 U	0.62 U	3.1 U	0.62 U	3.1 U	0.62 U
Carbon Disulfide	75-15-0	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	11 U	0.54 U	0.54 U	0.54 U	2.7 U	0.54 U	2.7 U	0.54 U
Carbon Tetrachloride	56-23-5	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	12 U	0.62 U	0.62 U	0.62 U	3.1 U	0.62 U	3.1 U	0.62 U
Chlorobenzene	108-90-7	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	9.8 U	0.49 U	0.49 U	0.49 U	2.4 U	0.49 U	2.4 U	0.49 U
Chloroethane	75-00-3	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	13 U	0.66 U	0.66 U	0.66 U	3.3 U	0.66 U	3.3 U	0.66 U
Chloroform	67-66-3	0.75 J	1.4	0.55 J	0.92 J	0.64 J	6.8 U	0.66 J	0.34 U	0.34 U	1.7 U	0.34 U	1.7 U	0.34 U
Chloromethane	74-87-3	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	11 U	0.54 U	0.54 U	0.54 U	2.7 U	0.54 U	2.7 U	0.54 U
cis-1,2-Dichloroethene	156-59-2	0.35 U	0.35 U	0.35 U	0.35 U	47	28 D	0.35 U	0.35 U	5.8	3.8 JD	4.7	3.5 JD	0.35 U
cis-1,3-Dichloropropene	10061-01-5	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	6.2 U	0.31 U	0.31 U	0.31 U	1.6 U	0.31 U	1.6 U	0.31 U
Cyclohexane	110-82-7	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	11 U	0.55 U	0.55 U	0.55 U	2.8 U	0.55 U	2.8 U	0.55 U
Dibromochloromethane	124-48-1	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	10 U	0.52 U	0.52 U	0.52 U	2.6 U	0.52 U	2.6 U	0.52 U
Dichlorodifluoromethane	75-71-8	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	11 U	0.55 U	0.55 U	0.55 U	2.8 U	0.55 U	2.8 U	0.55 U
Ethyl Benzene	100-41-4	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	11 U	0.53 U	0.53 U	0.53 U	2.6 U	0.53 U	2.6 U	0.53 U
Isopropylbenzene	98-82-8	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	9 U	0.45 U	0.45 U	0.45 U	2.2 U	0.45 U	2.2 U	0.45 U
m/p-Xylenes	179601-23-1	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	19 U	0.95 U	0.95 U	0.95 U	4.8 U	0.95 U	4.8 U	0.95 U
Methyl Acetate	79-20-9	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	17 U	0.83 U	0.83 U	0.83 U	4.2 U	0.83 U	4.2 U	0.83 U
Methyl tert-butyl Ether	1634-04-4	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	7 U	0.35 U	0.35 U	0.35 U	1.8 U	0.35 U	1.8 U	0.35 U
Methylcyclohexane	108-87-2	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	14 U	0.68 U	0.68 U	0.68 U	3.4 U	0.68 U	3.4 U	0.68 U
Methylene Chloride	75-09-2	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	8.2 U	0.41 U	0.41 U	0.41 U	2 U	0.41 U	2 U	0.41 U
o-Xylene	95-47-6	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	8.6 U	0.43 U	0.43 U	0.43 U	2.2 U	0.43 U	2.2 U	0.43 U
Styrene	100-42-5	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	7.2 U	0.36 U	0.36 U	0.36 U	1.8 U	0.36 U	1.8 U	0.36 U
t-1,3-Dichloropropene	10061-02-6	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	5.8 U	0.29 U	0.29 U	0.29 U	1.4 U	0.29 U	1.4 U	0.29 U
Tetrachloroethene	127-18-4	0.27 U	0.27 U	0.27 U	0.27 U	~~820 E~~	560 D	3.4	0.27 U	~~250 E~~	180 D	210 E	200 D	0.27 U
Toluene	108-88-3	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	7.4 U	0.37 U	0.37 U	0.37 U	1.8 U	0.37 U	1.8 U	0.37 U
trans-1,2-Dichloroethene	156-60-5	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	8.2 U	0.41 U	0.41 U	0.41 U	2 U	0.41 U	2 U	0.41 U
Trichloroethene	79-01-6	0.28 U	0.28 U	0.28 U	0.28 U	3.8	5.6 U	0.28 U	0.28 U	35 J	29 D	14 J	17 D	0.28 U
Trichlorofluoromethane	75-69-4	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	7 U	0.35 U	0.35 U	0.35 U	1.8 U	0.35 U	1.8 U	0.35 U
Vinyl Chloride	75-01-4	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	6.8 U	0.34 U	0.34 U	0.34 U	1.7 U	0.34 U	1.7 U	0.34 U
Total Concentration.		0.75	1.4	0.55	0.92	671.24	588	4.06	0	290.8	212.6	228.7	215.5	0

Total TICs

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

E (Organics) - Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.

E (Inorganics) - The reported value is estimated because of the presence of interference.

D - The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

NR - Not analyzed

Reporting limits should be edited to reflect RL (or CRDL), not MDL.

ATTN: JIM RICHERT
MALCOLM PIRNIE - BUFFALO
50 FOUNTAIN PLAZA
BUFFALO, NY 14202

con-test®
ANALYTICAL LABORATORY

39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

INVOICE

MALCOLM PIRNIE - BUFFALO
50 FOUNTAIN PLAZA
BUFFALO, NY 14202
ATTN: JIM RICHERT

Client # : MALCPBUF
Invoice # : LIMT-23619
Job # : 0266377

Thursday, March 05, 2009

P.O. # :
REF. # : 0266377

File # : LIMT-23619

SERVICES RENDERED :

Sample # : 09B06189 - 09B06193

Sample(s) received February 26, 2009 for analysis :

BUFFALO-NY

Units	Analysis	Description	Unit Price	Total
5	to-15 ppbv		$235.00	$1,175.00
0	to-15 ug/m3		$0.00	$0.00
			Sub Total:	$1,175.00

Total Amount Due : $1,175.00

Please remit payment to : CONTEST ANALYTICAL LABORATORY
39 SPRUCE STREET
EAST LONGMEADOW, MA 01028

TERMS: NET 30 DAYS. PLEASE INDICATE INVOICE # ON PAYMENT.
A service charge of 1.5% per month will be added to delinquent accounts.

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Please forward to your accounts payable dept. upon receipt.

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39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

REPORT DATE 3/5/2009

MALCOLM PIRNIE - BUFFALO
50 FOUNTAIN PLAZA
BUFFALO, NY 14202
ATTN: JIM RICHERT

CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER: 0266377

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-23619
JOB NUMBER: 0266377

PROJECT LOCATION: BUFFALO-NY

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	Subcontract Lab (if any) Cert. Nos.
FRANKLIN BA1	09B06190	AIR	Not Specified	to-15 ppbv	
FRANKLIN BA1	09B06190	AIR	Not Specified	to-15 ug/m3	
FRANKLIN BA2	09B06191	AIR	Not Specified	to-15 ppbv	
FRANKLIN BA2	09B06191	AIR	Not Specified	to-15 ug/m3	
FRANKLIN BA3	09B06192	AIR	Not Specified	to-15 ppbv	
FRANKLIN BA3	09B06192	AIR	Not Specified	to-15 ug/m3	
FRANKLIN OA	09B06193	AIR	Not Specified	to-15 ppbv	
FRANKLIN OA	09B06193	AIR	Not Specified	to-15 ug/m3	
FRANKLIN SS	09B06189	AIR	Not Specified	to-15 ppbv	
FRANKLIN SS	09B06189	AIR	Not Specified	to-15 ug/m3	

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ANALYTICAL LABORATORY

39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

REPORT DATE 3/5/2009

MALCOLM PIRNIE - BUFFALO
50 FOUNTAIN PLAZA
BUFFALO, NY 14202
ATTN: JIM RICHERT

CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER: 0266377

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-23619
JOB NUMBER: 0266377

Comments :

LIMS BATCH NO. : LIMT-23619

CASE NARRATIVE SUMMARY

In method TO-15, method blank-130185 contained Acetone at 0.94 ppbv = 2.2 ug/m3, and 2-Butanone(MEK) at 0.12 ppbv = 0.36 ug/m3.

In method TO-15, any reported result for 1,2-Dichloropropane is estimated and likely to be biased on the low side based on continuing calibration bias.

In method TO-15, any reported result for 1,2-Dichloropropane is likely to be biased on the low side based on laboratory fortified blank recovery bias.

In method TO-15, any reported result for 1,1,2-Trichloro-1,2,2-trifluoroethane is likely to be biased on the high side based on laboratory fortified blank recovery bias.

There are no other analytical issues that affect the usability of the data.

METHOD TO-15 - ADDITIONAL DETAILS

All TO-15 samples were analyzed undiluted unless specified below:
If dilutions were performed only one dilution within the linear calibrated region of the curve is reported.

Sample	Dilution	Compound(s)
09B06189	2x	All
09B06190	0.7x=570ml sample	All
09B06191	0.7x=570ml sample	All
09B06192	0.7x=570ml sample	Most
	20x	tetrachloroethylene, ethanol
09B06193	0.7x=570ml sample	All
blank-130185	0.7x=570ml sample	All

In method TO-15, for 1,2,4-Trichlorobenzene, data is not affected by continuing calibration non-conformance since bias is on the high side and all results are "not detected".

In method TO-15, data is not affected by laboratory fortified blank recovery outlier(s) for Bromoform and 1,2,4-Trichlorobenzene since all results are "not detected" and recovery bias is on the high side.

The results of analyses performed are based on samples as submitted to the laboratory and relate only to the items collected and tested.

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations. AIHA accreditations only apply to NIOSH methods and Environmental Lead Analyses.

AIHA 100033	AIHA ELLAP (LEAD) 100033	NORTH CAROLINA CERT. #652
MASSACHUSETTS MA0100	NEW HAMPSHIRE NELAP 2516	NEW JERSEY NELAP NJ MA007 (AIR)
CONNECTICUT PH-0567	VERMONT DOH (LEAD) No. LL015036	FLORIDA DOH E871027 (AIR)
NEW YORK ELAP/NELAP 10899	RHODE ISLAND (LIC. No. 112)	

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

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REPORT DATE 3/5/2009

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CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER: 0266377

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-23619
JOB NUMBER: 0266377

Tod Kopyscinski 3/5/09
SIGNATURE DATE

Tod Kopyscinski
Air Laboratory Manager

Michael Erickson
Assistant Laboratory Director

Edward Denson
Technical Director

Daren Damboragian
Organics Department Supervisor

* See end of data tabulation for notes and comments pertaining to this sample

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JIM RICHERT
MALCOLM PIRNIE - BUFFALO
50 FOUNTAIN PLAZA
BUFFALO, NY 14202

3/5/2009

Purchase Order No.:

Project Number: 0266377
LIMS-BAT #: LIMT-23619
Job Number: 0266377

Project Location: BUFFALO-NY
Date Received: 2/26/2009

Field Sample # : FRANKLIN BA1

Sample ID : 09B06190

‡Sampled : 2/24/2009
Not Specified

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	4.0	0.04		03/02/09	WSD
Benzene	PPBv	0.22	0.04		03/02/09	WSD
Benzyl Chloride	PPBv	ND	0.04		03/02/09	WSD
Bromodichloromethane	PPBv	ND	0.04		03/02/09	WSD
Bromoform	PPBv	ND	0.04		03/02/09	WSD
Bromomethane	PPBv	ND	0.04		03/02/09	WSD
1,3-Butadiene	PPBv	ND	0.04		03/02/09	WSD
2-Butanone (MEK)	PPBv	0.85	0.04		03/02/09	WSD
Carbon Disulfide	PPBv	ND	0.04		03/02/09	WSD
Carbon Tetrachloride	PPBv	0.08	0.04		03/02/09	WSD
Chlorobenzene	PPBv	ND	0.04		03/02/09	WSD
Chlorodibromomethane	PPBv	ND	0.04		03/02/09	WSD
Chloroethane	PPBv	ND	0.04		03/02/09	WSD
Chloroform	PPBv	ND	0.04		03/02/09	WSD
Chloromethane	PPBv	0.51	0.04		03/02/09	WSD
Cyclohexane	PPBv	ND	0.04		03/02/09	WSD
1,2-Dibromoethane	PPBv	ND	0.04		03/02/09	WSD
1,2-Dichlorobenzene	PPBv	ND	0.04		03/02/09	WSD
1,3-Dichlorobenzene	PPBv	ND	0.04		03/02/09	WSD
1,4-Dichlorobenzene	PPBv	0.04	0.04		03/02/09	WSD
Dichlorodifluoromethane	PPBv	0.53	0.04		03/02/09	WSD
1,1-Dichloroethane	PPBv	ND	0.04		03/02/09	WSD
1,2-Dichloroethane	PPBv	ND	0.04		03/02/09	WSD
1,1-Dichloroethylene	PPBv	ND	0.04		03/02/09	WSD
cis-1,2-Dichloroethylene	PPBv	ND	0.04		03/02/09	WSD
t-1,2-Dichloroethylene	PPBv	ND	0.04		03/02/09	WSD
1,2-Dichloropropane	PPBv	ND	0.04		03/02/09	WSD
cis-1,3-Dichloropropene	PPBv	ND	0.04		03/02/09	WSD
trans-1,3-Dichloropropene	PPBv	ND	0.04		03/02/09	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.04		03/02/09	WSD
Ethanol	PPBv	19	0.04		03/02/09	WSD
Ethyl Acetate	PPBv	ND	0.07		03/02/09	WSD
Ethylbenzene	PPBv	0.05	0.04		03/02/09	WSD
4-Ethyl Toluene	PPBv	0.07	0.04		03/02/09	WSD
n-Heptane	PPBv	0.07	0.04		03/02/09	WSD

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ = See attached chain-of-custody record for time sampled

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JIM RICHERT
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50 FOUNTAIN PLAZA
BUFFALO, NY 14202

3/5/2009

Purchase Order No.:

Project Number: 0266377
LIMS-BAT #: LIMT-23619
Job Number: 0266377

Project Location: BUFFALO-NY
Date Received: 2/26/2009

Field Sample # : **FRANKLIN BA1**

Sample ID : **09B06190**

‡Sampled : 2/24/2009
Not Specified

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Hexachlorobutadiene	PPBv	ND	0.07		03/02/09	WSD
Hexane	PPBv	0.49	0.04		03/02/09	WSD
2-Hexanone	PPBv	0.07	0.04		03/02/09	WSD
Isopropanol	PPBv	0.52	0.04		03/02/09	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.04		03/02/09	WSD
Methylene Chloride	PPBv	0.94	0.04		03/02/09	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	0.04		03/02/09	WSD
Propene	PPBv	ND	0.07		03/02/09	WSD
Styrene	PPBv	ND	0.04		03/02/09	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	0.04		03/02/09	WSD
Tetrachloroethylene	PPBv	2.8	0.04		03/02/09	WSD
Tetrahydrofuran	PPBv	ND	0.04		03/02/09	WSD
Toluene	PPBv	0.36	0.04		03/02/09	WSD
1,2,4-Trichlorobenzene	PPBv	ND	0.04		03/02/09	WSD
1,1,1-Trichloroethane	PPBv	ND	0.04		03/02/09	WSD
1,1,2-Trichloroethane	PPBv	ND	0.04		03/02/09	WSD
Trichloroethylene	PPBv	0.05	0.04		03/02/09	WSD
Trichlorofluoromethane (Freon 11)	PPBv	0.34	0.04		03/02/09	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	0.09	0.04		03/02/09	WSD
1,2,4-Trimethylbenzene	PPBv	0.24	0.04		03/02/09	WSD
1,3,5-Trimethylbenzene	PPBv	0.07	0.04		03/02/09	WSD
Vinyl Acetate	PPBv	ND	0.14		03/02/09	WSD
Vinyl Chloride	PPBv	ND	0.04		03/02/09	WSD
m/p-Xylene	PPBv	0.18	0.07		03/02/09	WSD
o-Xylene	PPBv	0.08	0.04		03/02/09	WSD
to-15 ug/m				EPA TO-15		
Acetone	ug/m3	9.5	0.09		03/02/09	WSD
Benzene	ug/m3	0.70	0.12		03/02/09	WSD
Benzyl Chloride	ug/m3	ND	0.19		03/02/09	WSD
Bromodichloromethane	ug/m3	ND	0.24		03/02/09	WSD
Bromoform	ug/m3	ND	0.36		03/02/09	WSD
Bromomethane	ug/m3	ND	0.14		03/02/09	WSD
1,3-Butadiene	ug/m3	ND	0.08		03/02/09	WSD
2-Butanone (MEK)	ug/m3	2.5	0.11		03/02/09	WSD
Carbon Disulfide	ug/m3	ND	0.12		03/02/09	WSD

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JIM RICHERT
MALCOLM PIRNIE - BUFFALO
50 FOUNTAIN PLAZA
BUFFALO, NY 14202

Purchase Order No.:

Project Number: 0266377
LIMS-BAT #: LIMT-23619
Job Number: 0266377

Project Location: BUFFALO-NY
Date Received: 2/26/2009

Field Sample # : FRANKLIN BA1

Sample ID : 09B06190

‡Sampled : 2/24/2009
Not Specified

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	0.48	0.22		03/02/09	WSD
Chlorobenzene	ug/m3	ND	0.17		03/02/09	WSD
Chlorodibromomethane	ug/m3	ND	0.31		03/02/09	WSD
Chloroethane	ug/m3	ND	0.10		03/02/09	WSD
Chloroform	ug/m3	ND	0.17		03/02/09	WSD
Chloromethane	ug/m3	1.0	0.07		03/02/09	WSD
Cyclohexane	ug/m3	ND	0.12		03/02/09	WSD
1,2-Dibromoethane	ug/m3	ND	0.27		03/02/09	WSD
1,2-Dichlorobenzene	ug/m3	ND	0.21		03/02/09	WSD
1,3-Dichlorobenzene	ug/m3	ND	0.21		03/02/09	WSD
1,4-Dichlorobenzene	ug/m3	0.25	0.21		03/02/09	WSD
Dichlorodifluoromethane	ug/m3	2.6	0.18		03/02/09	WSD
1,1-Dichloroethane	ug/m3	ND	0.14		03/02/09	WSD
1,2-Dichloroethane	ug/m3	ND	0.14		03/02/09	WSD
1,1-Dichloroethylene	ug/m3	ND	0.14		03/02/09	WSD
cis-1,2-Dichloroethylene	ug/m3	ND	0.14		03/02/09	WSD
t-1,2-Dichloroethylene	ug/m3	ND	0.14		03/02/09	WSD
1,2-Dichloropropane	ug/m3	ND	0.17		03/02/09	WSD
cis-1,3-Dichloropropene	ug/m3	ND	0.16		03/02/09	WSD
trans-1,3-Dichloropropene	ug/m3	ND	0.16		03/02/09	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	0.25		03/02/09	WSD
Ethanol	ug/m3	35	0.07		03/02/09	WSD
Ethyl Acetate	ug/m3	ND	0.26		03/02/09	WSD
Ethylbenzene	ug/m3	0.23	0.16		03/02/09	WSD
4-Ethyl Toluene	ug/m3	0.34	0.18		03/02/09	WSD
n-Heptane	ug/m3	0.27	0.14		03/02/09	WSD
Hexachlorobutadiene	ug/m3	ND	0.75		03/02/09	WSD
Hexane	ug/m3	1.7	0.13		03/02/09	WSD
2-Hexanone	ug/m3	0.30	0.14		03/02/09	WSD
Isopropanol	ug/m3	1.3	0.09		03/02/09	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	0.13		03/02/09	WSD
Methylene Chloride	ug/m3	3.3	0.12		03/02/09	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	0.14		03/02/09	WSD
Propene	ug/m3	ND	0.13		03/02/09	WSD
Styrene	ug/m3	ND	0.15		03/02/09	WSD

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JIM RICHERT
MALCOLM PIRNIE - BUFFALO
50 FOUNTAIN PLAZA
BUFFALO, NY 14202

Purchase Order No.:

Project Number: 0266377
LIMS-BAT #: LIMT-23619
Job Number: 0266377

Project Location: BUFFALO-NY
Date Received: 2/26/2009

Field Sample # : FRANKLIN BA1

Sample ID : 09B06190

‡Sampled : 2/24/2009
Not Specified

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.24		03/02/09	WSD
Tetrachloroethylene	ug/m3	19	0.24		03/02/09	WSD
Tetrahydrofuran	ug/m3	ND	0.11		03/02/09	WSD
Toluene	ug/m3	1.4	0.14		03/02/09	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	0.26		03/02/09	WSD
1,1,1-Trichloroethane	ug/m3	ND	0.19		03/02/09	WSD
1,1,2-Trichloroethane	ug/m3	ND	0.19		03/02/09	WSD
Trichloroethylene	ug/m3	0.26	0.19		03/02/09	WSD
Trichlorofluoromethane	ug/m3	1.9	0.20		03/02/09	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	0.68	0.27		03/02/09	WSD
1,2,4-Trimethylbenzene	ug/m3	1.2	0.18		03/02/09	WSD
1,3,5-Trimethylbenzene	ug/m3	0.36	0.18		03/02/09	WSD
Vinyl Acetate	ug/m3	ND	0.50		03/02/09	WSD
Vinyl Chloride	ug/m3	ND	0.10		03/02/09	WSD
m/p-Xylene	ug/m3	0.78	0.31		03/02/09	WSD
o-Xylene	ug/m3	0.35	0.16		03/02/09	WSD

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JIM RICHERT
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50 FOUNTAIN PLAZA
BUFFALO, NY 14202

Purchase Order No.:

Project Number: 0266377
LIMS-BAT #: LIMT-23619
Job Number: 0266377

Project Location: BUFFALO-NY
Date Received: 2/26/2009

Field Sample # : FRANKLIN BA2

Sample ID : **09B06191**

‡Sampled : 2/24/2009
Not Specified

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	5.8	0.04		03/02/09	WSD
Benzene	PPBv	0.20	0.04		03/02/09	WSD
Benzyl Chloride	PPBv	ND	0.04		03/02/09	WSD
Bromodichloromethane	PPBv	ND	0.04		03/02/09	WSD
Bromoform	PPBv	ND	0.04		03/02/09	WSD
Bromomethane	PPBv	ND	0.04		03/02/09	WSD
1,3-Butadiene	PPBv	ND	0.04		03/02/09	WSD
2-Butanone (MEK)	PPBv	0.99	0.04		03/02/09	WSD
Carbon Disulfide	PPBv	0.08	0.04		03/02/09	WSD
Carbon Tetrachloride	PPBv	0.07	0.04		03/02/09	WSD
Chlorobenzene	PPBv	ND	0.04		03/02/09	WSD
Chlorodibromomethane	PPBv	ND	0.04		03/02/09	WSD
Chloroethane	PPBv	ND	0.04		03/02/09	WSD
Chloroform	PPBv	ND	0.04		03/02/09	WSD
Chloromethane	PPBv	0.45	0.04		03/02/09	WSD
Cyclohexane	PPBv	0.28	0.04		03/02/09	WSD
1,2-Dibromoethane	PPBv	ND	0.04		03/02/09	WSD
1,2-Dichlorobenzene	PPBv	ND	0.04		03/02/09	WSD
1,3-Dichlorobenzene	PPBv	ND	0.04		03/02/09	WSD
1,4-Dichlorobenzene	PPBv	ND	0.04		03/02/09	WSD
Dichlorodifluoromethane	PPBv	0.53	0.04		03/02/09	WSD
1,1-Dichloroethane	PPBv	ND	0.04		03/02/09	WSD
1,2-Dichloroethane	PPBv	0.04	0.04		03/02/09	WSD
1,1-Dichloroethylene	PPBv	ND	0.04		03/02/09	WSD
cis-1,2-Dichloroethylene	PPBv	0.18	0.04		03/02/09	WSD
t-1,2-Dichloroethylene	PPBv	ND	0.04		03/02/09	WSD
1,2-Dichloropropane	PPBv	ND	0.04		03/02/09	WSD
cis-1,3-Dichloropropene	PPBv	ND	0.04		03/02/09	WSD
trans-1,3-Dichloropropene	PPBv	ND	0.04		03/02/09	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.04		03/02/09	WSD
Ethanol	PPBv	17	0.04		03/02/09	WSD
Ethyl Acetate	PPBv	0.30	0.04		03/02/09	WSD
Ethylbenzene	PPBv	0.20	0.04		03/02/09	WSD
4-Ethyl Toluene	PPBv	ND	0.04		03/02/09	WSD
n-Heptane	PPBv	0.13	0.04		03/02/09	WSD

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JIM RICHERT
MALCOLM PIRNIE - BUFFALO
50 FOUNTAIN PLAZA
BUFFALO, NY 14202

3/5/2009

Purchase Order No.:

Project Number: 0266377
LIMS-BAT #: LIMT-23619
Job Number: 0266377

Project Location: BUFFALO-NY
Date Received: 2/26/2009

Field Sample # : FRANKLIN BA2

Sample ID : 09B06191

‡Sampled : 2/24/2009
Not Specified

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Hexachlorobutadiene	PPBv	ND	0.07		03/02/09	WSD
Hexane	PPBv	1.2	0.04		03/02/09	WSD
2-Hexanone	PPBv	0.08	0.04		03/02/09	WSD
Isopropanol	PPBv	2.2	0.04		03/02/09	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.04		03/02/09	WSD
Methylene Chloride	PPBv	1.7	0.04		03/02/09	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	0.05	0.04		03/02/09	WSD
Propene	PPBv	ND	0.07		03/02/09	WSD
Styrene	PPBv	ND	0.04		03/02/09	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	0.04		03/02/09	WSD
Tetrachloroethylene	PPBv	14	0.04		03/02/09	WSD
Tetrahydrofuran	PPBv	0.12	0.04		03/02/09	WSD
Toluene	PPBv	1.1	0.04		03/02/09	WSD
1,2,4-Trichlorobenzene	PPBv	ND	0.04		03/02/09	WSD
1,1,1-Trichloroethane	PPBv	ND	0.04		03/02/09	WSD
1,1,2-Trichloroethane	PPBv	ND	0.04		03/02/09	WSD
Trichloroethylene	PPBv	0.15	0.04		03/02/09	WSD
Trichlorofluoromethane (Freon 11)	PPBv	0.30	0.04		03/02/09	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	0.09	0.04		03/02/09	WSD
1,2,4-Trimethylbenzene	PPBv	0.10	0.04		03/02/09	WSD
1,3,5-Trimethylbenzene	PPBv	ND	0.04		03/02/09	WSD
Vinyl Acetate	PPBv	ND	0.14		03/02/09	WSD
Vinyl Chloride	PPBv	ND	0.04		03/02/09	WSD
m/p-Xylene	PPBv	0.72	0.07		03/02/09	WSD
o-Xylene	PPBv	0.12	0.04		03/02/09	WSD
to-15 ug/m				EPA TO-15		
Acetone	ug/m3	14	0.09		03/02/09	WSD
Benzene	ug/m3	0.65	0.12		03/02/09	WSD
Benzyl Chloride	ug/m3	ND	0.19		03/02/09	WSD
Bromodichloromethane	ug/m3	ND	0.24		03/02/09	WSD
Bromoform	ug/m3	ND	0.36		03/02/09	WSD
Bromomethane	ug/m3	ND	0.14		03/02/09	WSD
1,3-Butadiene	ug/m3	ND	0.08		03/02/09	WSD
2-Butanone (MEK)	ug/m3	2.9	0.11		03/02/09	WSD
Carbon Disulfide	ug/m3	0.25	0.12		03/02/09	WSD

RL = Reporting Limit

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NM = Not Measured

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‡ = See attached chain-of-custody record for time sampled

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ANALYTICAL LABORATORY
39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

JIM RICHERT
MALCOLM PIRNIE - BUFFALO
50 FOUNTAIN PLAZA
BUFFALO, NY 14202

3/5/2009

Purchase Order No.:

Project Number: 0266377
LIMS-BAT #: LIMT-23619
Job Number: 0266377

Project Location: BUFFALO-NY
Date Received: 2/26/2009

Field Sample # : FRANKLIN BA2

Sample ID : 09B06191

‡Sampled : 2/24/2009
Not Specified

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	0.47	0.22		03/02/09	WSD
Chlorobenzene	ug/m3	ND	0.17		03/02/09	WSD
Chlorodibromomethane	ug/m3	ND	0.31		03/02/09	WSD
Chloroethane	ug/m3	ND	0.10		03/02/09	WSD
Chloroform	ug/m3	ND	0.17		03/02/09	WSD
Chloromethane	ug/m3	0.93	0.07		03/02/09	WSD
Cyclohexane	ug/m3	0.97	0.12		03/02/09	WSD
1,2-Dibromoethane	ug/m3	ND	0.27		03/02/09	WSD
1,2-Dichlorobenzene	ug/m3	ND	0.21		03/02/09	WSD
1,3-Dichlorobenzene	ug/m3	ND	0.21		03/02/09	WSD
1,4-Dichlorobenzene	ug/m3	ND	0.21		03/02/09	WSD
Dichlorodifluoromethane	ug/m3	2.6	0.18		03/02/09	WSD
1,1-Dichloroethane	ug/m3	ND	0.14		03/02/09	WSD
1,2-Dichloroethane	ug/m3	0.16	0.14		03/02/09	WSD
1,1-Dichloroethylene	ug/m3	ND	0.14		03/02/09	WSD
cis-1,2-Dichloroethylene	ug/m3	0.72	0.14		03/02/09	WSD
t-1,2-Dichloroethylene	ug/m3	ND	0.14		03/02/09	WSD
1,2-Dichloropropane	ug/m3	ND	0.17		03/02/09	WSD
cis-1,3-Dichloropropene	ug/m3	ND	0.16		03/02/09	WSD
trans-1,3-Dichloropropene	ug/m3	ND	0.16		03/02/09	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	0.25		03/02/09	WSD
Ethanol	ug/m3	33	0.07		03/02/09	WSD
Ethyl Acetate	ug/m3	1.1	0.13		03/02/09	WSD
Ethylbenzene	ug/m3	0.85	0.16		03/02/09	WSD
4-Ethyl Toluene	ug/m3	ND	0.18		03/02/09	WSD
n-Heptane	ug/m3	0.54	0.14		03/02/09	WSD
Hexachlorobutadiene	ug/m3	ND	0.75		03/02/09	WSD
Hexane	ug/m3	4.3	0.13		03/02/09	WSD
2-Hexanone	ug/m3	0.34	0.14		03/02/09	WSD
Isopropanol	ug/m3	5.4	0.09		03/02/09	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	0.13		03/02/09	WSD
Methylene Chloride	ug/m3	5.8	0.12		03/02/09	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	0.19	0.14		03/02/09	WSD
Propene	ug/m3	ND	0.13		03/02/09	WSD
Styrene	ug/m3	ND	0.15		03/02/09	WSD

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JIM RICHERT
MALCOLM PIRNIE - BUFFALO
50 FOUNTAIN PLAZA
BUFFALO, NY 14202

3/5/2009

Purchase Order No.:

Project Number: 0266377
LIMS-BAT #: LIMT-23619
Job Number: 0266377

Project Location: BUFFALO-NY
Date Received: 2/26/2009

Field Sample # : **FRANKLIN BA2**

Sample ID : **09B06191**

‡Sampled : 2/24/2009
Not Specified

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.24		03/02/09	WSD
Tetrachloroethylene	ug/m3	97	0.24		03/02/09	WSD
Tetrahydrofuran	ug/m3	0.36	0.11		03/02/09	WSD
Toluene	ug/m3	4.3	0.14		03/02/09	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	0.26		03/02/09	WSD
1,1,1-Trichloroethane	ug/m3	ND	0.19		03/02/09	WSD
1,1,2-Trichloroethane	ug/m3	ND	0.19		03/02/09	WSD
Trichloroethylene	ug/m3	0.80	0.19		03/02/09	WSD
Trichlorofluoromethane	ug/m3	1.7	0.20		03/02/09	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	0.70	0.27		03/02/09	WSD
1,2,4-Trimethylbenzene	ug/m3	0.49	0.18		03/02/09	WSD
1,3,5-Trimethylbenzene	ug/m3	ND	0.18		03/02/09	WSD
Vinyl Acetate	ug/m3	ND	0.50		03/02/09	WSD
Vinyl Chloride	ug/m3	ND	0.10		03/02/09	WSD
m/p-Xylene	ug/m3	3.1	0.31		03/02/09	WSD
o-Xylene	ug/m3	0.50	0.16		03/02/09	WSD

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JIM RICHERT
MALCOLM PIRNIE - BUFFALO
50 FOUNTAIN PLAZA
BUFFALO, NY 14202

3/5/2009

Purchase Order No.:

Project Number: 0266377
LIMS-BAT #: LIMT-23619
Job Number: 0266377

Project Location: BUFFALO-NY
Date Received: 2/26/2009

Field Sample # : FRANKLIN BA3

Sample ID : 09B06192

‡Sampled : 2/24/2009
Not Specified

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	5.6	0.04		03/02/09	WSD
Benzene	PPBv	0.20	0.04		03/02/09	WSD
Benzyl Chloride	PPBv	ND	0.04		03/02/09	WSD
Bromodichloromethane	PPBv	ND	0.04		03/02/09	WSD
Bromoform	PPBv	ND	0.04		03/02/09	WSD
Bromomethane	PPBv	ND	0.04		03/02/09	WSD
1,3-Butadiene	PPBv	ND	0.04		03/02/09	WSD
2-Butanone (MEK)	PPBv	0.77	0.04		03/02/09	WSD
Carbon Disulfide	PPBv	ND	0.04		03/02/09	WSD
Carbon Tetrachloride	PPBv	0.07	0.04		03/02/09	WSD
Chlorobenzene	PPBv	ND	0.04		03/02/09	WSD
Chlorodibromomethane	PPBv	ND	0.04		03/02/09	WSD
Chloroethane	PPBv	ND	0.04		03/02/09	WSD
Chloroform	PPBv	0.07	0.04		03/02/09	WSD
Chloromethane	PPBv	0.47	0.04		03/02/09	WSD
Cyclohexane	PPBv	ND	0.04		03/02/09	WSD
1,2-Dibromoethane	PPBv	ND	0.04		03/02/09	WSD
1,2-Dichlorobenzene	PPBv	ND	0.04		03/02/09	WSD
1,3-Dichlorobenzene	PPBv	ND	0.04		03/02/09	WSD
1,4-Dichlorobenzene	PPBv	ND	0.04		03/02/09	WSD
Dichlorodifluoromethane	PPBv	0.53	0.04		03/02/09	WSD
1,1-Dichloroethane	PPBv	ND	0.04		03/02/09	WSD
1,2-Dichloroethane	PPBv	ND	0.04		03/02/09	WSD
1,1-Dichloroethylene	PPBv	ND	0.04		03/02/09	WSD
cis-1,2-Dichloroethylene	PPBv	0.34	0.04		03/02/09	WSD
t-1,2-Dichloroethylene	PPBv	ND	0.04		03/02/09	WSD
1,2-Dichloropropane	PPBv	ND	0.04		03/02/09	WSD
cis-1,3-Dichloropropene	PPBv	ND	0.04		03/02/09	WSD
trans-1,3-Dichloropropene	PPBv	ND	0.04		03/02/09	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.04		03/02/09	WSD
Ethanol	PPBv	51	0.04		03/02/09	WSD
Ethyl Acetate	PPBv	0.46	0.04		03/02/09	WSD
Ethylbenzene	PPBv	0.05	0.04		03/02/09	WSD
4-Ethyl Toluene	PPBv	ND	0.04		03/02/09	WSD
n-Heptane	PPBv	0.05	0.04		03/02/09	WSD

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JIM RICHERT
MALCOLM PIRNIE - BUFFALO
50 FOUNTAIN PLAZA
BUFFALO, NY 14202

Purchase Order No.:

Project Number: 0266377
LIMS-BAT #: LIMT-23619
Job Number: 0266377

Project Location: BUFFALO-NY
Date Received: 2/26/2009

Field Sample # : FRANKLIN BA3

Sample ID : 09B06192

‡Sampled : 2/24/2009
Not Specified

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Hexachlorobutadiene	PPBv	ND	0.07		03/02/09	WSD
Hexane	PPBv	0.41	0.04		03/02/09	WSD
2-Hexanone	PPBv	0.07	0.04		03/02/09	WSD
Isopropanol	PPBv	1.4	0.04		03/02/09	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.04		03/02/09	WSD
Methylene Chloride	PPBv	1.2	0.04		03/02/09	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	0.04		03/02/09	WSD
Propene	PPBv	ND	0.07		03/02/09	WSD
Styrene	PPBv	ND	0.04		03/02/09	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	0.04		03/02/09	WSD
Tetrachloroethylene	PPBv	27	0.04		03/02/09	WSD
Tetrahydrofuran	PPBv	ND	0.04		03/02/09	WSD
Toluene	PPBv	0.46	0.04		03/02/09	WSD
1,2,4-Trichlorobenzene	PPBv	ND	0.04		03/02/09	WSD
1,1,1-Trichloroethane	PPBv	ND	0.04		03/02/09	WSD
1,1,2-Trichloroethane	PPBv	ND	0.04		03/02/09	WSD
Trichloroethylene	PPBv	0.25	0.04		03/02/09	WSD
Trichlorofluoromethane (Freon 11)	PPBv	0.34	0.04		03/02/09	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	0.09	0.04		03/02/09	WSD
1,2,4-Trimethylbenzene	PPBv	0.08	0.04		03/02/09	WSD
1,3,5-Trimethylbenzene	PPBv	ND	0.04		03/02/09	WSD
Vinyl Acetate	PPBv	ND	0.14		03/02/09	WSD
Vinyl Chloride	PPBv	ND	0.04		03/02/09	WSD
m/p-Xylene	PPBv	0.16	0.07		03/02/09	WSD
o-Xylene	PPBv	0.07	0.04		03/02/09	WSD
to-15 ug/m				EPA TO-15		
Acetone	ug/m3	13	0.09		03/02/09	WSD
Benzene	ug/m3	0.63	0.12		03/02/09	WSD
Benzyl Chloride	ug/m3	ND	0.19		03/02/09	WSD
Bromodichloromethane	ug/m3	ND	0.24		03/02/09	WSD
Bromoform	ug/m3	ND	0.36		03/02/09	WSD
Bromomethane	ug/m3	ND	0.14		03/02/09	WSD
1,3-Butadiene	ug/m3	ND	0.08		03/02/09	WSD
2-Butanone (MEK)	ug/m3	2.3	0.11		03/02/09	WSD
Carbon Disulfide	ug/m3	ND	0.12		03/02/09	WSD

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JIM RICHERT
MALCOLM PIRNIE - BUFFALO
50 FOUNTAIN PLAZA
BUFFALO, NY 14202

Purchase Order No.:

Project Number: 0266377
LIMS-BAT #: LIMT-23619
Job Number: 0266377

Project Location: BUFFALO-NY
Date Received: 2/26/2009

Field Sample # : FRANKLIN BA3

Sample ID : 09B06192

‡Sampled : 2/24/2009
Not Specified

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	0.47	0.22		03/02/09	WSD
Chlorobenzene	ug/m3	ND	0.17		03/02/09	WSD
Chlorodibromomethane	ug/m3	ND	0.31		03/02/09	WSD
Chloroethane	ug/m3	ND	0.10		03/02/09	WSD
Chloroform	ug/m3	0.36	0.17		03/02/09	WSD
Chloromethane	ug/m3	0.96	0.07		03/02/09	WSD
Cyclohexane	ug/m3	ND	0.12		03/02/09	WSD
1,2-Dibromoethane	ug/m3	ND	0.27		03/02/09	WSD
1,2-Dichlorobenzene	ug/m3	ND	0.21		03/02/09	WSD
1,3-Dichlorobenzene	ug/m3	ND	0.21		03/02/09	WSD
1,4-Dichlorobenzene	ug/m3	ND	0.21		03/02/09	WSD
Dichlorodifluoromethane	ug/m3	2.6	0.18		03/02/09	WSD
1,1-Dichloroethane	ug/m3	ND	0.14		03/02/09	WSD
1,2-Dichloroethane	ug/m3	ND	0.14		03/02/09	WSD
1,1-Dichloroethylene	ug/m3	ND	0.14		03/02/09	WSD
cis-1,2-Dichloroethylene	ug/m3	1.4	0.14		03/02/09	WSD
t-1,2-Dichloroethylene	ug/m3	ND	0.14		03/02/09	WSD
1,2-Dichloropropane	ug/m3	ND	0.17		03/02/09	WSD
cis-1,3-Dichloropropene	ug/m3	ND	0.16		03/02/09	WSD
trans-1,3-Dichloropropene	ug/m3	ND	0.16		03/02/09	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	0.25		03/02/09	WSD
Ethanol	ug/m3	96	0.07		03/02/09	WSD
Ethyl Acetate	ug/m3	1.6	0.13		03/02/09	WSD
Ethylbenzene	ug/m3	0.23	0.16		03/02/09	WSD
4-Ethyl Toluene	ug/m3	ND	0.18		03/02/09	WSD
n-Heptane	ug/m3	0.19	0.14		03/02/09	WSD
Hexachlorobutadiene	ug/m3	ND	0.75		03/02/09	WSD
Hexane	ug/m3	1.4	0.13		03/02/09	WSD
2-Hexanone	ug/m3	0.29	0.14		03/02/09	WSD
Isopropanol	ug/m3	3.4	0.09		03/02/09	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	0.13		03/02/09	WSD
Methylene Chloride	ug/m3	4.2	0.12		03/02/09	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	0.14		03/02/09	WSD
Propene	ug/m3	ND	0.13		03/02/09	WSD
Styrene	ug/m3	ND	0.15		03/02/09	WSD

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JIM RICHERT
MALCOLM PIRNIE - BUFFALO
50 FOUNTAIN PLAZA
BUFFALO, NY 14202

Purchase Order No.:

Project Number: 0266377
LIMS-BAT #: LIMT-23619
Job Number: 0266377

Project Location: BUFFALO-NY
Date Received: 2/26/2009

Field Sample # : FRANKLIN BA3

Sample ID : 09B06192

‡Sampled : 2/24/2009
Not Specified

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.24		03/02/09	WSD
Tetrachloroethylene	ug/m3	180	0.24		03/02/09	WSD
Tetrahydrofuran	ug/m3	ND	0.11		03/02/09	WSD
Toluene	ug/m3	1.7	0.14		03/02/09	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	0.26		03/02/09	WSD
1,1,1-Trichloroethane	ug/m3	ND	0.19		03/02/09	WSD
1,1,2-Trichloroethane	ug/m3	ND	0.19		03/02/09	WSD
Trichloroethylene	ug/m3	1.4	0.19		03/02/09	WSD
Trichlorofluoromethane	ug/m3	1.9	0.20		03/02/09	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	0.70	0.27		03/02/09	WSD
1,2,4-Trimethylbenzene	ug/m3	0.39	0.18		03/02/09	WSD
1,3,5-Trimethylbenzene	ug/m3	ND	0.18		03/02/09	WSD
Vinyl Acetate	ug/m3	ND	0.50		03/02/09	WSD
Vinyl Chloride	ug/m3	ND	0.10		03/02/09	WSD
m/p-Xylene	ug/m3	0.71	0.31		03/02/09	WSD
o-Xylene	ug/m3	0.30	0.16		03/02/09	WSD

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NM = Not Measured

* = See end of report for comments and notes applying to this sample

‡ = See attached chain-of-custody record for time sampled

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JIM RICHERT
MALCOLM PIRNIE - BUFFALO
50 FOUNTAIN PLAZA
BUFFALO, NY 14202

Purchase Order No.:

Project Number: 0266377
LIMS-BAT #: LIMT-23619
Job Number: 0266377

Project Location: BUFFALO-NY
Date Received: 2/26/2009

Field Sample # : FRANKLIN OA

Sample ID : 09B06193

‡Sampled : 2/24/2009
Not Specified

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	3.5	0.04		03/02/09	WSD
Benzene	PPBv	0.18	0.04		03/02/09	WSD
Benzyl Chloride	PPBv	ND	0.04		03/02/09	WSD
Bromodichloromethane	PPBv	ND	0.04		03/02/09	WSD
Bromoform	PPBv	ND	0.04		03/02/09	WSD
Bromomethane	PPBv	ND	0.04		03/02/09	WSD
1,3-Butadiene	PPBv	ND	0.04		03/02/09	WSD
2-Butanone (MEK)	PPBv	0.74	0.04		03/02/09	WSD
Carbon Disulfide	PPBv	ND	0.04		03/02/09	WSD
Carbon Tetrachloride	PPBv	0.07	0.04		03/02/09	WSD
Chlorobenzene	PPBv	ND	0.04		03/02/09	WSD
Chlorodibromomethane	PPBv	ND	0.04		03/02/09	WSD
Chloroethane	PPBv	ND	0.04		03/02/09	WSD
Chloroform	PPBv	ND	0.04		03/02/09	WSD
Chloromethane	PPBv	0.52	0.04		03/02/09	WSD
Cyclohexane	PPBv	ND	0.04		03/02/09	WSD
1,2-Dibromoethane	PPBv	ND	0.04		03/02/09	WSD
1,2-Dichlorobenzene	PPBv	ND	0.04		03/02/09	WSD
1,3-Dichlorobenzene	PPBv	ND	0.04		03/02/09	WSD
1,4-Dichlorobenzene	PPBv	ND	0.04		03/02/09	WSD
Dichlorodifluoromethane	PPBv	0.53	0.04		03/02/09	WSD
1,1-Dichloroethane	PPBv	ND	0.04		03/02/09	WSD
1,2-Dichloroethane	PPBv	ND	0.04		03/02/09	WSD
1,1-Dichloroethylene	PPBv	ND	0.04		03/02/09	WSD
cis-1,2-Dichloroethylene	PPBv	ND	0.04		03/02/09	WSD
t-1,2-Dichloroethylene	PPBv	ND	0.04		03/02/09	WSD
1,2-Dichloropropane	PPBv	ND	0.04		03/02/09	WSD
cis-1,3-Dichloropropene	PPBv	ND	0.04		03/02/09	WSD
trans-1,3-Dichloropropene	PPBv	ND	0.04		03/02/09	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.04		03/02/09	WSD
Ethanol	PPBv	2.7	0.04		03/02/09	WSD
Ethyl Acetate	PPBv	ND	0.07		03/02/09	WSD
Ethylbenzene	PPBv	0.04	0.04		03/02/09	WSD
4-Ethyl Toluene	PPBv	ND	0.04		03/02/09	WSD
n-Heptane	PPBv	ND	0.04		03/02/09	WSD

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‡ = See attached chain-of-custody record for time sampled

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ANALYTICAL LABORATORY
39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

JIM RICHERT
MALCOLM PIRNIE - BUFFALO
50 FOUNTAIN PLAZA
BUFFALO, NY 14202

3/5/2009

Purchase Order No.:

Project Number: 0266377
LIMS-BAT #: LIMT-23619
Job Number: 0266377

Project Location: BUFFALO-NY
Date Received: 2/26/2009

Field Sample # : FRANKLIN OA

Sample ID : 09B06193

‡Sampled : 2/24/2009
Not Specified

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Hexachlorobutadiene	PPBv	ND	0.07		03/02/09	WSD
Hexane	PPBv	0.18	0.04		03/02/09	WSD
2-Hexanone	PPBv	0.06	0.04		03/02/09	WSD
Isopropanol	PPBv	0.25	0.04		03/02/09	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.04		03/02/09	WSD
Methylene Chloride	PPBv	0.44	0.04		03/02/09	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	0.04		03/02/09	WSD
Propene	PPBv	ND	0.07		03/02/09	WSD
Styrene	PPBv	ND	0.04		03/02/09	WSD
1,1,2,2-Tetrachloroethane	PPBv	ND	0.04		03/02/09	WSD
Tetrachloroethylene	PPBv	ND	0.04		03/02/09	WSD
Tetrahydrofuran	PPBv	ND	0.04		03/02/09	WSD
Toluene	PPBv	0.23	0.04		03/02/09	WSD
1,2,4-Trichlorobenzene	PPBv	ND	0.04		03/02/09	WSD
1,1,1-Trichloroethane	PPBv	ND	0.04		03/02/09	WSD
1,1,2-Trichloroethane	PPBv	ND	0.04		03/02/09	WSD
Trichloroethylene	PPBv	ND	0.04		03/02/09	WSD
Trichlorofluoromethane (Freon 11)	PPBv	0.26	0.04		03/02/09	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	0.08	0.04		03/02/09	WSD
1,2,4-Trimethylbenzene	PPBv	0.05	0.04		03/02/09	WSD
1,3,5-Trimethylbenzene	PPBv	ND	0.04		03/02/09	WSD
Vinyl Acetate	PPBv	ND	0.14		03/02/09	WSD
Vinyl Chloride	PPBv	ND	0.04		03/02/09	WSD
m/p-Xylene	PPBv	0.13	0.07		03/02/09	WSD
o-Xylene	PPBv	0.05	0.04		03/02/09	WSD
to-15 ug/m				EPA TO-15		
Acetone	ug/m3	8.3	0.09		03/02/09	WSD
Benzene	ug/m3	0.58	0.12		03/02/09	WSD
Benzyl Chloride	ug/m3	ND	0.19		03/02/09	WSD
Bromodichloromethane	ug/m3	ND	0.24		03/02/09	WSD
Bromoform	ug/m3	ND	0.36		03/02/09	WSD
Bromomethane	ug/m3	ND	0.14		03/02/09	WSD
1,3-Butadiene	ug/m3	ND	0.08		03/02/09	WSD
2-Butanone (MEK)	ug/m3	2.2	0.11		03/02/09	WSD
Carbon Disulfide	ug/m3	ND	0.12		03/02/09	WSD

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JIM RICHERT
MALCOLM PIRNIE - BUFFALO
50 FOUNTAIN PLAZA
BUFFALO, NY 14202

3/5/2009

Purchase Order No.:

Project Number: 0266377
LIMS-BAT #: LIMT-23619
Job Number: 0266377

Project Location: BUFFALO-NY
Date Received: 2/26/2009

Field Sample # : **FRANKLIN OA**

Sample ID : **09B06193**

‡Sampled : 2/24/2009
Not Specified

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	0.45	0.22		03/02/09	WSD
Chlorobenzene	ug/m3	ND	0.17		03/02/09	WSD
Chlorodibromomethane	ug/m3	ND	0.31		03/02/09	WSD
Chloroethane	ug/m3	ND	0.10		03/02/09	WSD
Chloroform	ug/m3	ND	0.17		03/02/09	WSD
Chloromethane	ug/m3	1.1	0.07		03/02/09	WSD
Cyclohexane	ug/m3	ND	0.12		03/02/09	WSD
1,2-Dibromoethane	ug/m3	ND	0.27		03/02/09	WSD
1,2-Dichlorobenzene	ug/m3	ND	0.21		03/02/09	WSD
1,3-Dichlorobenzene	ug/m3	ND	0.21		03/02/09	WSD
1,4-Dichlorobenzene	ug/m3	ND	0.21		03/02/09	WSD
Dichlorodifluoromethane	ug/m3	2.6	0.18		03/02/09	WSD
1,1-Dichloroethane	ug/m3	ND	0.14		03/02/09	WSD
1,2-Dichloroethane	ug/m3	ND	0.14		03/02/09	WSD
1,1-Dichloroethylene	ug/m3	ND	0.14		03/02/09	WSD
cis-1,2-Dichloroethylene	ug/m3	ND	0.14		03/02/09	WSD
t-1,2-Dichloroethylene	ug/m3	ND	0.14		03/02/09	WSD
1,2-Dichloropropane	ug/m3	ND	0.17		03/02/09	WSD
cis-1,3-Dichloropropene	ug/m3	ND	0.16		03/02/09	WSD
trans-1,3-Dichloropropene	ug/m3	ND	0.16		03/02/09	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	0.25		03/02/09	WSD
Ethanol	ug/m3	5.1	0.07		03/02/09	WSD
Ethyl Acetate	ug/m3	ND	0.26		03/02/09	WSD
Ethylbenzene	ug/m3	0.17	0.16		03/02/09	WSD
4-Ethyl Toluene	ug/m3	ND	0.18		03/02/09	WSD
n-Heptane	ug/m3	ND	0.14		03/02/09	WSD
Hexachlorobutadiene	ug/m3	ND	0.75		03/02/09	WSD
Hexane	ug/m3	0.63	0.13		03/02/09	WSD
2-Hexanone	ug/m3	0.23	0.14		03/02/09	WSD
Isopropanol	ug/m3	0.61	0.09		03/02/09	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	0.13		03/02/09	WSD
Methylene Chloride	ug/m3	1.5	0.12		03/02/09	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	0.14		03/02/09	WSD
Propene	ug/m3	ND	0.13		03/02/09	WSD
Styrene	ug/m3	ND	0.15		03/02/09	WSD

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JIM RICHERT
MALCOLM PIRNIE - BUFFALO
50 FOUNTAIN PLAZA
BUFFALO, NY 14202

Purchase Order No.:

Project Number: 0266377
LIMS-BAT #: LIMT-23619
Job Number: 0266377

Project Location: BUFFALO-NY
Date Received: 2/26/2009

Field Sample # : FRANKLIN OA

Sample ID : 09B06193

‡Sampled : 2/24/2009
Not Specified

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.24		03/02/09	WSD
Tetrachloroethylene	ug/m3	ND	0.24		03/02/09	WSD
Tetrahydrofuran	ug/m3	ND	0.11		03/02/09	WSD
Toluene	ug/m3	0.86	0.14		03/02/09	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	0.26		03/02/09	WSD
1,1,1-Trichloroethane	ug/m3	ND	0.19		03/02/09	WSD
1,1,2-Trichloroethane	ug/m3	ND	0.19		03/02/09	WSD
Trichloroethylene	ug/m3	ND	0.19		03/02/09	WSD
Trichlorofluoromethane	ug/m3	1.5	0.20		03/02/09	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	0.64	0.27		03/02/09	WSD
1,2,4-Trimethylbenzene	ug/m3	0.22	0.18		03/02/09	WSD
1,3,5-Trimethylbenzene	ug/m3	ND	0.18		03/02/09	WSD
Vinyl Acetate	ug/m3	ND	0.50		03/02/09	WSD
Vinyl Chloride	ug/m3	ND	0.10		03/02/09	WSD
m/p-Xylene	ug/m3	0.55	0.31		03/02/09	WSD
o-Xylene	ug/m3	0.22	0.16		03/02/09	WSD

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JIM RICHERT
MALCOLM PIRNIE - BUFFALO
50 FOUNTAIN PLAZA
BUFFALO, NY 14202

3/5/2009

Purchase Order No.:

Project Number: 0266377
LIMS-BAT #: LIMT-23619
Job Number: 0266377

Project Location: BUFFALO-NY
Date Received: 2/26/2009

Field Sample # : FRANKLIN SS

Sample ID : 09B06189

‡Sampled : 2/24/2009
Not Specified

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Acetone	PPBv	4.2	0.10		03/03/09	WSD
Benzene	PPBv	0.20	0.10		03/03/09	WSD
Benzyl Chloride	PPBv	ND	0.10		03/03/09	WSD
Bromodichloromethane	PPBv	ND	0.10		03/03/09	WSD
Bromoform	PPBv	ND	0.10		03/03/09	WSD
Bromomethane	PPBv	ND	0.10		03/03/09	WSD
1,3-Butadiene	PPBv	ND	0.10		03/03/09	WSD
2-Butanone (MEK)	PPBv	0.88	0.10		03/03/09	WSD
Carbon Disulfide	PPBv	ND	0.10		03/03/09	WSD
Carbon Tetrachloride	PPBv	ND	0.10		03/03/09	WSD
Chlorobenzene	PPBv	ND	0.10		03/03/09	WSD
Chlorodibromomethane	PPBv	ND	0.10		03/03/09	WSD
Chloroethane	PPBv	ND	0.10		03/03/09	WSD
Chloroform	PPBv	ND	0.10		03/03/09	WSD
Chloromethane	PPBv	ND	0.10		03/03/09	WSD
Cyclohexane	PPBv	ND	0.10		03/03/09	WSD
1,2-Dibromoethane	PPBv	ND	0.10		03/03/09	WSD
1,2-Dichlorobenzene	PPBv	ND	0.10		03/03/09	WSD
1,3-Dichlorobenzene	PPBv	ND	0.10		03/03/09	WSD
1,4-Dichlorobenzene	PPBv	ND	0.10		03/03/09	WSD
Dichlorodifluoromethane	PPBv	0.53	0.10		03/03/09	WSD
1,1-Dichloroethane	PPBv	ND	0.10		03/03/09	WSD
1,2-Dichloroethane	PPBv	ND	0.10		03/03/09	WSD
1,1-Dichloroethylene	PPBv	ND	0.10		03/03/09	WSD
cis-1,2-Dichloroethylene	PPBv	ND	0.10		03/03/09	WSD
t-1,2-Dichloroethylene	PPBv	ND	0.10		03/03/09	WSD
1,2-Dichloropropane	PPBv	ND	0.10		03/03/09	WSD
cis-1,3-Dichloropropene	PPBv	ND	0.10		03/03/09	WSD
trans-1,3-Dichloropropene	PPBv	ND	0.10		03/03/09	WSD
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	0.10		03/03/09	WSD
Ethanol	PPBv	6.3	0.10		03/03/09	WSD
Ethyl Acetate	PPBv	ND	0.20		03/03/09	WSD
Ethylbenzene	PPBv	0.33	0.10		03/03/09	WSD
4-Ethyl Toluene	PPBv	0.12	0.10		03/03/09	WSD
n-Heptane	PPBv	ND	0.10		03/03/09	WSD

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JIM RICHERT
MALCOLM PIRNIE - BUFFALO
50 FOUNTAIN PLAZA
BUFFALO, NY 14202

3/5/2009

Purchase Order No.:

Project Number: 0266377
LIMS-BAT #: LIMT-23619
Job Number: 0266377

Project Location: BUFFALO-NY
Date Received: 2/26/2009

Field Sample # : FRANKLIN SS

Sample ID : 09B06189

‡Sampled : 2/24/2009
Not Specified

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ppbv				EPA TO-15		
Hexachlorobutadiene	PPBv	ND	0.20		03/03/09	WSD
Hexane	PPBv	0.47	0.10		03/03/09	WSD
2-Hexanone	PPBv	ND	0.10		03/03/09	WSD
Isopropanol	PPBv	1.3	0.10		03/03/09	WSD
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	0.10		03/03/09	WSD
Methylene Chloride	PPBv	1.4	0.10		03/03/09	WSD
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	0.10		03/03/09	WSD
Propene	PPBv	ND	0.20		03/03/09	WSD
Styrene	PPBv	0.13	0.10		03/03/09	WSD
1,1,2,2-Tetrachloroethane	PPBv	0.58	0.10		03/03/09	WSD
Tetrachloroethylene	PPBv	2.7	0.10		03/03/09	WSD
Tetrahydrofuran	PPBv	ND	0.10		03/03/09	WSD
Toluene	PPBv	1.7	0.10		03/03/09	WSD
1,2,4-Trichlorobenzene	PPBv	ND	0.10		03/03/09	WSD
1,1,1-Trichloroethane	PPBv	ND	0.10		03/03/09	WSD
1,1,2-Trichloroethane	PPBv	ND	0.10		03/03/09	WSD
Trichloroethylene	PPBv	0.35	0.10		03/03/09	WSD
Trichlorofluoromethane (Freon 11)	PPBv	0.34	0.10		03/03/09	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	0.10		03/03/09	WSD
1,2,4-Trimethylbenzene	PPBv	0.47	0.10		03/03/09	WSD
1,3,5-Trimethylbenzene	PPBv	0.13	0.10		03/03/09	WSD
Vinyl Acetate	PPBv	ND	0.40		03/03/09	WSD
Vinyl Chloride	PPBv	ND	0.10		03/03/09	WSD
m/p-Xylene	PPBv	1.1	0.20		03/03/09	WSD
o-Xylene	PPBv	0.44	0.10		03/03/09	WSD
to-15 ug/m				EPA TO-15		
Acetone	ug/m3	10	0.24		03/03/09	WSD
Benzene	ug/m3	0.64	0.32		03/03/09	WSD
Benzyl Chloride	ug/m3	ND	0.52		03/03/09	WSD
Bromodichloromethane	ug/m3	ND	0.66		03/03/09	WSD
Bromoform	ug/m3	ND	1.1		03/03/09	WSD
Bromomethane	ug/m3	ND	0.38		03/03/09	WSD
1,3-Butadiene	ug/m3	ND	0.22		03/03/09	WSD
2-Butanone (MEK)	ug/m3	2.6	0.30		03/03/09	WSD
Carbon Disulfide	ug/m3	ND	0.32		03/03/09	WSD

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50 FOUNTAIN PLAZA
BUFFALO, NY 14202

3/5/2009

Purchase Order No.:

Project Number: 0266377
LIMS-BAT #: LIMT-23619
Job Number: 0266377

Project Location: BUFFALO-NY
Date Received: 2/26/2009

Field Sample # : **FRANKLIN SS**

Sample ID : **09B06189**

‡Sampled : 2/24/2009
Not Specified

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
Carbon Tetrachloride	ug/m3	ND	0.62		03/03/09	WSD
Chlorobenzene	ug/m3	ND	0.46		03/03/09	WSD
Chlorodibromomethane	ug/m3	ND	0.86		03/03/09	WSD
Chloroethane	ug/m3	ND	0.26		03/03/09	WSD
Chloroform	ug/m3	ND	0.48		03/03/09	WSD
Chloromethane	ug/m3	ND	0.20		03/03/09	WSD
Cyclohexane	ug/m3	ND	0.34		03/03/09	WSD
1,2-Dibromoethane	ug/m3	ND	0.76		03/03/09	WSD
1,2-Dichlorobenzene	ug/m3	ND	0.60		03/03/09	WSD
1,3-Dichlorobenzene	ug/m3	ND	0.60		03/03/09	WSD
1,4-Dichlorobenzene	ug/m3	ND	0.60		03/03/09	WSD
Dichlorodifluoromethane	ug/m3	2.6	0.50		03/03/09	WSD
1,1-Dichloroethane	ug/m3	ND	0.40		03/03/09	WSD
1,2-Dichloroethane	ug/m3	ND	0.40		03/03/09	WSD
1,1-Dichloroethylene	ug/m3	ND	0.40		03/03/09	WSD
cis-1,2-Dichloroethylene	ug/m3	ND	0.40		03/03/09	WSD
t-1,2-Dichloroethylene	ug/m3	ND	0.40		03/03/09	WSD
1,2-Dichloropropane	ug/m3	ND	0.46		03/03/09	WSD
cis-1,3-Dichloropropene	ug/m3	ND	0.44		03/03/09	WSD
trans-1,3-Dichloropropene	ug/m3	ND	0.44		03/03/09	WSD
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	0.70		03/03/09	WSD
Ethanol	ug/m3	12	0.18		03/03/09	WSD
Ethyl Acetate	ug/m3	ND	0.73		03/03/09	WSD
Ethylbenzene	ug/m3	1.4	0.44		03/03/09	WSD
4-Ethyl Toluene	ug/m3	0.59	0.50		03/03/09	WSD
n-Heptane	ug/m3	ND	0.40		03/03/09	WSD
Hexachlorobutadiene	ug/m3	ND	2.2		03/03/09	WSD
Hexane	ug/m3	1.7	0.36		03/03/09	WSD
2-Hexanone	ug/m3	ND	0.40		03/03/09	WSD
Isopropanol	ug/m3	3.2	0.24		03/03/09	WSD
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	0.36		03/03/09	WSD
Methylene Chloride	ug/m3	5.0	0.34		03/03/09	WSD
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	0.40		03/03/09	WSD
Propene	ug/m3	ND	0.35		03/03/09	WSD
Styrene	ug/m3	0.54	0.42		03/03/09	WSD

RL = Reporting Limit

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NM = Not Measured

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‡ = See attached chain-of-custody record for time sampled

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JIM RICHERT
MALCOLM PIRNIE - BUFFALO
50 FOUNTAIN PLAZA
BUFFALO, NY 14202

3/5/2009

Purchase Order No.:

Project Number: 0266377
LIMS-BAT #: LIMT-23619
Job Number: 0266377

Project Location: BUFFALO-NY
Date Received: 2/26/2009

Field Sample # : FRANKLIN SS

Sample ID : 09B06189

‡Sampled : 2/24/2009
Not Specified

Sample Matrix: AIR
Sample Medium : SUMMA

	Units	Results	RL	Method	Date Analyzed	Analyst
to-15 ug/m				EPA TO-15		
1,1,2,2-Tetrachloroethane	ug/m3	4.0	0.68		03/03/09	WSD
Tetrachloroethylene	ug/m3	18	0.68		03/03/09	WSD
Tetrahydrofuran	ug/m3	ND	0.30		03/03/09	WSD
Toluene	ug/m3	6.6	0.38		03/03/09	WSD
1,2,4-Trichlorobenzene	ug/m3	ND	0.74		03/03/09	WSD
1,1,1-Trichloroethane	ug/m3	ND	0.54		03/03/09	WSD
1,1,2-Trichloroethane	ug/m3	ND	0.54		03/03/09	WSD
Trichloroethylene	ug/m3	1.9	0.54		03/03/09	WSD
Trichlorofluoromethane	ug/m3	1.9	0.56		03/03/09	WSD
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	0.76		03/03/09	WSD
1,2,4-Trimethylbenzene	ug/m3	2.3	0.50		03/03/09	WSD
1,3,5-Trimethylbenzene	ug/m3	0.63	0.50		03/03/09	WSD
Vinyl Acetate	ug/m3	ND	1.5		03/03/09	WSD
Vinyl Chloride	ug/m3	ND	0.26		03/03/09	WSD
m/p-Xylene	ug/m3	4.6	0.86		03/03/09	WSD
o-Xylene	ug/m3	1.9	0.44		03/03/09	WSD

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JIM RICHERT
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50 FOUNTAIN PLAZA
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Project Location: BUFFALO-NY
Date Received: 2/26/2009

Purchase Order No.:

Project Number: 0266377
LIMS-BAT #: LIMT-23619
Job Number: 0266377

** END OF REPORT **

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

Report Date: 3/5/2009 Lims Bat # : LIMT-23619

QC Batch Number: BATCH-16144

Sample Id	Analysis	QC Analysis	Values	Units	Limits
09B06189					
	4-Bromofluorobenzene	Surrogate Recovery	90.25	%	70-130
09B06190					
	4-Bromofluorobenzene	Surrogate Recovery	86.62	%	70-130
09B06191					
	4-Bromofluorobenzene	Surrogate Recovery	84.87	%	70-130
09B06192					
	4-Bromofluorobenzene	Surrogate Recovery	85.25	%	70-130
09B06193					
	4-Bromofluorobenzene	Surrogate Recovery	85.25	%	70-130
BLANK-130185					
	Acetone	Blank	2.25	ug/m3	
	Benzene	Blank	<0.12	ug/m3	
	Carbon Tetrachloride	Blank	<0.22	ug/m3	
	Chloroform	Blank	<0.17	ug/m3	
	1,2-Dichloroethane	Blank	<0.14	ug/m3	
	1,4-Dichlorobenzene	Blank	<0.21	ug/m3	
	Ethyl Acetate	Blank	<0.26	ug/m3	
	Ethylbenzene	Blank	<0.16	ug/m3	
	Hexane	Blank	<0.13	ug/m3	
	Isopropanol	Blank	<0.18	ug/m3	
	2-Butanone (MEK)	Blank	0.36	ug/m3	
	4-Methyl-2-Pentanone (MIBK)	Blank	<0.14	ug/m3	
	Styrene	Blank	<0.15	ug/m3	
	Tetrachloroethylene	Blank	<0.24	ug/m3	
	Toluene	Blank	<0.14	ug/m3	
	1,1,1-Trichloroethane	Blank	<0.19	ug/m3	
	Trichloroethylene	Blank	<0.19	ug/m3	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<0.27	ug/m3	
	Trichlorofluoromethane	Blank	<0.20	ug/m3	
	o-Xylene	Blank	<0.16	ug/m3	
	m/p-Xylene	Blank	<0.31	ug/m3	
	1,2-Dichlorobenzene	Blank	<0.21	ug/m3	
	1,3-Dichlorobenzene	Blank	<0.21	ug/m3	
	1,1-Dichloroethane	Blank	<0.14	ug/m3	
	1,1-Dichloroethylene	Blank	<0.14	ug/m3	
	Ethanol	Blank	<0.14	ug/m3	
	4-Ethyl Toluene	Blank	<0.18	ug/m3	
	Methyl tert-Butyl Ether (MTBE)	Blank	<0.13	ug/m3	
	t-1,2-Dichloroethylene	Blank	<0.14	ug/m3	
	Vinyl Chloride	Blank	<0.10	ug/m3	
	Methylene Chloride	Blank	<0.25	ug/m3	
	Chlorobenzene	Blank	<0.17	ug/m3	
	Chloromethane	Blank	<0.07	ug/m3	

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QC Batch Number: BATCH-16144

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-130185					
	Bromomethane	Blank	<0.14	ug/m3	
	Chloroethane	Blank	<0.10	ug/m3	
	cis-1,3-Dichloropropene	Blank	<0.16	ug/m3	
	trans-1,3-Dichloropropene	Blank	<0.16	ug/m3	
	Chlorodibromomethane	Blank	<0.31	ug/m3	
	1,1,2-Trichloroethane	Blank	<0.19	ug/m3	
	Bromoform	Blank	<0.36	ug/m3	
	1,1,2,2-Tetrachloroethane	Blank	<0.24	ug/m3	
	Hexachlorobutadiene	Blank	<0.75	ug/m3	
	1,2,4-Trichlorobenzene	Blank	<0.26	ug/m3	
	1,2,4-Trimethylbenzene	Blank	<0.18	ug/m3	
	1,3,5-Trimethylbenzene	Blank	<0.18	ug/m3	
	Cyclohexane	Blank	<0.12	ug/m3	
	cis-1,2-Dichloroethylene	Blank	<0.14	ug/m3	
	1,2-Dichloropropane	Blank	<0.17	ug/m3	
	Dichlorodifluoromethane	Blank	<0.18	ug/m3	
	Benzyl Chloride	Blank	<0.19	ug/m3	
	Carbon Disulfide	Blank	<0.12	ug/m3	
	Vinyl Acetate	Blank	<0.50	ug/m3	
	2-Hexanone	Blank	<0.14	ug/m3	
	Bromodichloromethane	Blank	<0.24	ug/m3	
	1,2-Dibromoethane	Blank	<0.27	ug/m3	
	n-Heptane	Blank	<0.14	ug/m3	
	1,2-Dichlorotetrafluoroethane (114)	Blank	<0.25	ug/m3	
	Tetrahydrofuran	Blank	<0.11	ug/m3	
	Propene	Blank	<0.13	ug/m3	
	1,3-Butadiene	Blank	<0.08	ug/m3	
LFBLANK-92339					
	Acetone	Lab Fort Blank Amt.	11.87	ug/m3	
		Lab Fort Blk. Found	10.77	ug/m3	
		Lab Fort Blk. % Rec.	90.76	%	50-150
	Benzene	Lab Fort Blank Amt.	15.95	ug/m3	
		Lab Fort Blk. Found	12.38	ug/m3	
		Lab Fort Blk. % Rec.	77.63	%	70-130
	Carbon Tetrachloride	Lab Fort Blank Amt.	31.45	ug/m3	
		Lab Fort Blk. Found	29.74	ug/m3	
		Lab Fort Blk. % Rec.	94.58	%	70-130
	Chloroform	Lab Fort Blank Amt.	24.33	ug/m3	
		Lab Fort Blk. Found	26.26	ug/m3	
		Lab Fort Blk. % Rec.	107.92	%	70-130
	1,2-Dichloroethane	Lab Fort Blank Amt.	20.24	ug/m3	
		Lab Fort Blk. Found	19.86	ug/m3	
		Lab Fort Blk. % Rec.	98.10	%	70-130

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BATCH QC: Lab fortified Blanks and Duplicates
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Method Blanks

Report Date: 3/5/2009 Lims Bat # : LIMT-23619

QC Batch Number: BATCH-16144

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-92339					
	1,4-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	35.50	ug/m3	
		Lab Fort Blk. % Rec.	118.12	%	70-130
	Ethyl Acetate	Lab Fort Blank Amt.	18.01	ug/m3	
		Lab Fort Blk. Found	20.03	ug/m3	
		Lab Fort Blk. % Rec.	111.20	%	50-150
	Ethylbenzene	Lab Fort Blank Amt.	21.67	ug/m3	
		Lab Fort Blk. Found	18.96	ug/m3	
		Lab Fort Blk. % Rec.	87.50	%	70-130
	Hexane	Lab Fort Blank Amt.	17.62	ug/m3	
		Lab Fort Blk. Found	18.59	ug/m3	
		Lab Fort Blk. % Rec.	105.52	%	70-130
	Isopropanol	Lab Fort Blank Amt.	12.28	ug/m3	
		Lab Fort Blk. Found	14.39	ug/m3	
		Lab Fort Blk. % Rec.	117.12	%	50-150
	2-Butanone (MEK)	Lab Fort Blank Amt.	14.74	ug/m3	
		Lab Fort Blk. Found	15.33	ug/m3	
		Lab Fort Blk. % Rec.	104.00	%	70-130
	4-Methyl-2-Pentanone (MIBK)	Lab Fort Blank Amt.	20.48	ug/m3	
		Lab Fort Blk. Found	17.75	ug/m3	
		Lab Fort Blk. % Rec.	86.67	%	70-130
	Styrene	Lab Fort Blank Amt.	21.26	ug/m3	
		Lab Fort Blk. Found	20.54	ug/m3	
		Lab Fort Blk. % Rec.	96.61	%	70-130
	Tetrachloroethylene	Lab Fort Blank Amt.	33.90	ug/m3	
		Lab Fort Blk. Found	37.36	ug/m3	
		Lab Fort Blk. % Rec.	110.20	%	70-130
	Toluene	Lab Fort Blank Amt.	18.81	ug/m3	
		Lab Fort Blk. Found	15.99	ug/m3	
		Lab Fort Blk. % Rec.	85.02	%	70-130
	1,1,1-Trichloroethane	Lab Fort Blank Amt.	27.28	ug/m3	
		Lab Fort Blk. Found	22.91	ug/m3	
		Lab Fort Blk. % Rec.	84.00	%	70-130
	Trichloroethylene	Lab Fort Blank Amt.	26.87	ug/m3	
		Lab Fort Blk. Found	23.49	ug/m3	
		Lab Fort Blk. % Rec.	87.43	%	70-130
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Lab Fort Blank Amt.	38.31	ug/m3	
		Lab Fort Blk. Found	50.45	ug/m3	
		Lab Fort Blk. % Rec.	131.68	%	70-130
	Trichlorofluoromethane	Lab Fort Blank Amt.	28.09	ug/m3	
		Lab Fort Blk. Found	33.02	ug/m3	
		Lab Fort Blk. % Rec.	117.54	%	70-130
	o-Xylene	Lab Fort Blank Amt.	21.71	ug/m3	

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QC Batch Number: BATCH-16144

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-92339					
	o-Xylene	Lab Fort Blk. Found	19.12	ug/m3	
		Lab Fort Blk. % Rec.	88.04	%	70-130
	m/p-Xylene	Lab Fort Blank Amt.	43.43	ug/m3	
		Lab Fort Blk. Found	38.39	ug/m3	
		Lab Fort Blk. % Rec.	88.39	%	70-130
	1,2-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	36.45	ug/m3	
		Lab Fort Blk. % Rec.	121.26	%	70-130
	1,3-Dichlorobenzene	Lab Fort Blank Amt.	30.06	ug/m3	
		Lab Fort Blk. Found	36.41	ug/m3	
		Lab Fort Blk. % Rec.	121.12	%	70-130
	1,1-Dichloroethane	Lab Fort Blank Amt.	20.24	ug/m3	
		Lab Fort Blk. Found	18.90	ug/m3	
		Lab Fort Blk. % Rec.	93.38	%	70-130
	1,1-Dichloroethylene	Lab Fort Blank Amt.	19.83	ug/m3	
		Lab Fort Blk. Found	20.39	ug/m3	
		Lab Fort Blk. % Rec.	102.82	%	70-130
	Ethanol	Lab Fort Blank Amt.	9.42	ug/m3	
		Lab Fort Blk. Found	10.55	ug/m3	
		Lab Fort Blk. % Rec.	112.06	%	50-150
	4-Ethyl Toluene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	25.32	ug/m3	
		Lab Fort Blk. % Rec.	103.02	%	50-150
	Methyl tert-Butyl Ether (MTBE)	Lab Fort Blank Amt.	18.02	ug/m3	
		Lab Fort Blk. Found	19.07	ug/m3	
		Lab Fort Blk. % Rec.	105.82	%	70-130
	t-1,2-Dichloroethylene	Lab Fort Blank Amt.	19.82	ug/m3	
		Lab Fort Blk. Found	19.15	ug/m3	
		Lab Fort Blk. % Rec.	96.60	%	70-130
	Vinyl Chloride	Lab Fort Blank Amt.	12.78	ug/m3	
		Lab Fort Blk. Found	12.89	ug/m3	
		Lab Fort Blk. % Rec.	100.90	%	70-130
	Methylene Chloride	Lab Fort Blank Amt.	17.36	ug/m3	
		Lab Fort Blk. Found	17.93	ug/m3	
		Lab Fort Blk. % Rec.	103.30	%	70-130
	Chlorobenzene	Lab Fort Blank Amt.	23.02	ug/m3	
		Lab Fort Blk. Found	22.55	ug/m3	
		Lab Fort Blk. % Rec.	97.93	%	70-130
	Chloromethane	Lab Fort Blank Amt.	10.32	ug/m3	
		Lab Fort Blk. Found	10.19	ug/m3	
		Lab Fort Blk. % Rec.	98.78	%	70-130
	Bromomethane	Lab Fort Blank Amt.	19.40	ug/m3	
		Lab Fort Blk. Found	23.89	ug/m3	

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LFBLANK-92339					
	Bromomethane	Lab Fort Blk. % Rec.	123.12	%	70-130
	Chloroethane	Lab Fort Blank Amt.	13.19	ug/m3	
		Lab Fort Blk. Found	14.49	ug/m3	
		Lab Fort Blk. % Rec.	109.85	%	70-130
	cis-1,3-Dichloropropene	Lab Fort Blank Amt.	22.69	ug/m3	
		Lab Fort Blk. Found	18.47	ug/m3	
		Lab Fort Blk. % Rec.	81.37	%	70-130
	trans-1,3-Dichloropropene	Lab Fort Blank Amt.	22.69	ug/m3	
		Lab Fort Blk. Found	19.04	ug/m3	
		Lab Fort Blk. % Rec.	83.87	%	70-130
	Chlorodibromomethane	Lab Fort Blank Amt.	42.59	ug/m3	
		Lab Fort Blk. Found	47.73	ug/m3	
		Lab Fort Blk. % Rec.	112.06	%	70-130
	1,1,2-Trichloroethane	Lab Fort Blank Amt.	27.28	ug/m3	
		Lab Fort Blk. Found	23.35	ug/m3	
		Lab Fort Blk. % Rec.	85.60	%	70-130
	Bromoform	Lab Fort Blank Amt.	51.69	ug/m3	
		Lab Fort Blk. Found	69.79	ug/m3	
		Lab Fort Blk. % Rec.	135.00	%	70-130
	1,1,2,2-Tetrachloroethane	Lab Fort Blank Amt.	34.33	ug/m3	
		Lab Fort Blk. Found	30.40	ug/m3	
		Lab Fort Blk. % Rec.	88.56	%	70-130
	Hexachlorobutadiene	Lab Fort Blank Amt.	53.33	ug/m3	
		Lab Fort Blk. Found	63.87	ug/m3	
		Lab Fort Blk. % Rec.	119.76	%	70-130
	1,2,4-Trichlorobenzene	Lab Fort Blank Amt.	37.10	ug/m3	
		Lab Fort Blk. Found	49.88	ug/m3	
		Lab Fort Blk. % Rec.	134.44	%	70-130
	1,2,4-Trimethylbenzene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	24.19	ug/m3	
		Lab Fort Blk. % Rec.	98.42	%	70-130
	1,3,5-Trimethylbenzene	Lab Fort Blank Amt.	24.58	ug/m3	
		Lab Fort Blk. Found	23.75	ug/m3	
		Lab Fort Blk. % Rec.	96.66	%	70-130
	Cyclohexane	Lab Fort Blank Amt.	17.21	ug/m3	
		Lab Fort Blk. Found	13.75	ug/m3	
		Lab Fort Blk. % Rec.	79.91	%	50-150
	cis-1,2-Dichloroethylene	Lab Fort Blank Amt.	19.82	ug/m3	
		Lab Fort Blk. Found	19.36	ug/m3	
		Lab Fort Blk. % Rec.	97.65	%	70-130
	1,2-Dichloropropane	Lab Fort Blank Amt.	23.10	ug/m3	
		Lab Fort Blk. Found	16.08	ug/m3	
		Lab Fort Blk. % Rec.	69.61	%	70-130

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LFBLANK-92339					
	Dichlorodifluoromethane	Lab Fort Blank Amt.	24.72	ug/m3	
		Lab Fort Blk. Found	26.79	ug/m3	
		Lab Fort Blk. % Rec.	108.36	%	70-130
	Benzyl Chloride	Lab Fort Blank Amt.	25.88	ug/m3	
		Lab Fort Blk. Found	26.61	ug/m3	
		Lab Fort Blk. % Rec.	102.82	%	70-130
	Carbon Disulfide	Lab Fort Blank Amt.	15.57	ug/m3	
		Lab Fort Blk. Found	18.05	ug/m3	
		Lab Fort Blk. % Rec.	115.96	%	70-130
	Vinyl Acetate	Lab Fort Blank Amt.	17.60	ug/m3	
		Lab Fort Blk. Found	19.95	ug/m3	
		Lab Fort Blk. % Rec.	113.32	%	70-130
	2-Hexanone	Lab Fort Blank Amt.	20.48	ug/m3	
		Lab Fort Blk. Found	17.74	ug/m3	
		Lab Fort Blk. % Rec.	86.63	%	50-150
	Bromodichloromethane	Lab Fort Blank Amt.	33.50	ug/m3	
		Lab Fort Blk. Found	29.03	ug/m3	
		Lab Fort Blk. % Rec.	86.66	%	70-130
	1,2-Dibromoethane	Lab Fort Blank Amt.	38.42	ug/m3	
		Lab Fort Blk. Found	35.62	ug/m3	
		Lab Fort Blk. % Rec.	92.70	%	70-130
	n-Heptane	Lab Fort Blank Amt.	20.49	ug/m3	
		Lab Fort Blk. Found	15.30	ug/m3	
		Lab Fort Blk. % Rec.	74.68	%	50-150
	1,2-Dichlorotetrafluoroethane (114)	Lab Fort Blank Amt.	34.95	ug/m3	
		Lab Fort Blk. Found	39.63	ug/m3	
		Lab Fort Blk. % Rec.	113.40	%	70-130
	Tetrahydrofuran	Lab Fort Blank Amt.	14.74	ug/m3	
		Lab Fort Blk. Found	16.43	ug/m3	
		Lab Fort Blk. % Rec.	111.48	%	50-150
	Propene	Lab Fort Blank Amt.	8.60	ug/m3	
		Lab Fort Blk. Found	8.02	ug/m3	
		Lab Fort Blk. % Rec.	93.28	%	50-150
	1,3-Butadiene	Lab Fort Blank Amt.	11.06	ug/m3	
		Lab Fort Blk. Found	12.30	ug/m3	
		Lab Fort Blk. % Rec.	111.22	%	70-130

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ANALYTICAL LABORATORY

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

NOTES:

QC Batch No. : BATCH-16144
Sample ID : LFBLANK-92339
Analysis : 1,1,2-Trichloro-1,2,2-Trifluoroethane

LABORATORY FORTIFIED BLANK RECOVERY IS OUTSIDE OF CONTROL LIMITS. ANY REPORTED VALUE FOR THIS COMPOUND IS LIKELY TO BE BIASED ON THE HIGH SIDE.

QC Batch No. : BATCH-16144
Sample ID : LFBLANK-92339
Analysis : 1,2,4-Trichlorobenzene

LABORATORY FORTIFIED BLANK RECOVERY OUTSIDE OF CONTROL LIMITS. DATA VALIDATION IS NOT AFFECTED SINCE ALL RESULTS ARE "NOT DETECTED" FOR ALL SAMPLES IN THIS BATCH FOR THIS COMPOUND AND BIAS IS ON THE HIGH SIDE.

QC Batch No. : BATCH-16144
Sample ID : LFBLANK-92339
Analysis : 1,2-Dichloropropane

LABORATORY FORTIFIED BLANK RECOVERY OUTSIDE OF CONTROL LIMITS. ANY REPORTED RESULT FOR THIS COMPOUND IN THIS BATCH IS LIKELY TO BE BIASED ON THE LOW SIDE.

QC Batch No. : BATCH-16144
Sample ID : LFBLANK-92339
Analysis : Bromoform

LABORATORY FORTIFIED BLANK RECOVERY OUTSIDE OF CONTROL LIMITS. DATA VALIDATION IS NOT AFFECTED SINCE ALL RESULTS ARE "NOT DETECTED" FOR ALL SAMPLES IN THIS BATCH FOR THIS COMPOUND AND BIAS IS ON THE HIGH SIDE.

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ANALYTICAL LABORATORY
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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates
Sample Matrix Spikes and Matrix Spike Duplicates

BATCH QC: Lab fortified Blanks and Duplicates
Standard Reference Materials and Duplicates
Method Blanks

QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

QC BATCH NUMBER	This is the number assigned to all samples analyzed together that would be subject to comparison with a particular set of Quality Control Data.
LIMITS	Upper and Lower Control Limits for the QC ANALYSIS Reported. All values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY REPORT. Not all QC results will have Limits defined.
Sample Amount	Amount of analyte found in a sample.
Blank	Method Blank that has been taken though all the steps of the analysis.
LFBLANK	Laboratory Fortified Blank (a control sample)
STDADD	Standard Added (a laboratory control sample)
Matrix Spk Amt Added	Amount of analyte spiked into a sample
MS Amt Measured	Amount of analyte found including amount that was spiked
Matrix Spike % Rec.	% Recovery of spiked amount in sample.
Duplicate Value	The result from the Duplicate analysis of the sample.
Duplicate RPD	The Relative Percent Difference between two Duplicate Analyses.
Surrogate Recovery	The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the analytical methods.
Sur. Recovery (ELCD)	Surrogate Recovery on the Electrolytic Conductivity Detector.
Sur. Recovery (PID)	Surrogate Recovery on the Photoionization Detector.
Standard Measured	Amount measured for a laboratory control sample
Standard Amt Added	Known value for a laboratory control sample
Standard % Recovery	% recovered for a laboratory control sample with a known value.
Lab Fort Blank Amt	Laboratory Fortified Blank Amount Added
Lab Fort Blk. Found	Laboratory Fortified Blank Amount Found
Lab Fort Blk % Rec	Laboratory Fortified Blank % Recovered
Dup Lab Fort Bl Amt	Duplicate Laboratory Fortified Blank Amount Added
Dup Lab Fort Bl Fnd	Duplicate Laboratory Fortified Blank Amount Found
Dup Lab Fort Bl % Rec	Duplicate Laboratory Fortified Blank % Recovery
Lab Fort Blank Range	Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).
Lab Fort Bl. Av. Rec.	Laboratory Fortified Blank Average Recovery
Duplicate Sample Amt	Sample Value for Duplicate used with Matrix Spike Duplicate
MSD Amount Added	Matrix Spike Duplicate Amount Added (Spiked)
MSD Amt Measured	Matrix Spike Duplicate Amount Measured
MSD % Recovery	Matrix Spike Duplicate % Recovery
MSD Range	Absolute difference between Matrix Spike and Matrix Spike Duplicate Recoveries

con-test® ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

39 SPRUCE ST
EAST LONGMEADOW, MA 01028

AIR SAMPLE CHAIN OF CUSTODY RECORD

LIMS - 23619

Company Name: Malcolm Pirnie Inc.
Address: Suite 600
50 Fountain Plaza
Buffalo NY 14202
Attention: Attn: Jim Richert
Project Location: Buffalo NY
Sampled By: Dwight Symonds

Telephone: (716) 667-0900
Project # 0266377
Client PO #

Proposal Provided? (For Billing purposes)
☐ yes _____ proposal date

DATA DELIVERY (check one):
☐FAX ☐EMAIL ☐WEBSITE CLIENT
Fax # :
Email:
Format: ☐ EXCEL ☐ PDF ☐ GIS KEY ☐ OTHER

ANALYSIS REQUESTED: TO-15

Please fill out completely, sign, date and retain the yellow copy for your record.

Summa canisters and flow controllers must be returned within 14 days of receipt or rental fees will apply.

Summa canisters will be retained for a minimum of 14 days after sampling date prior to cleaning.

Field ID	Sample Description	Media	Lab #	Date Sampled Start Date/Time	Date Sampled Stop Date/Time	ONLY USE WHEN USING PUMPS: Total Minutes Sampled	Flow Rate M^3/Min. or L/Min.	Volume Liters or M^3	Matrix Code*	TO-15	"Hg Initial pressure	"Hg Final Pressure	"Hg Lab Receipt pressure	Summa Canister ID	Flow Controller ID
	Franklin SS	AIR	093 06189	1045 2/23/09	2-24 09 13					X	30.0	10.0		1697	3043
	Franklin BA1		90	1045	11 09 17					X	29.5	10		1315	3084
	Franklin BA2		91	1051	4 0902					X	29.5	9.5		1226	3266
	Franklin BA3		92	1058	4 0906					X	30.0	9.0		1121	3067
	Franklin OA		93	1106	4 0929					X	26.0	7.0		1723	3103

2-24-9

Laboratory Comments: indoor & Ambient/Vinyl Chloride .25ug/m3 TCE PCE - 1,1 DCA

CLIENT COMMENTS: Did NOT use spare canister.

Relinquished by: (signature)	Date/Time:
Jim Richert	2/24/09 1030
Received by: (signature)	Date/Time:
	2/26/09 1345
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround **
☐ 7-Day
☒ 10-Day
☒ Other 5 day
RUSH *
☐ *24-Hr ☐ *48-Hr
☐ *72-Hr ☐ *4-Day
*Approval Required

Special Requirements
Regulations:
Data Enhancement/RCP? ☐ Y ☐ N
Enhanced Data Package ☐ Y ☐ N
(Surchage Applies)
Required Detection Limits: NY
Other: Category B

*Matrix Code:
SG= SOIL GAS
IA= INDOOR AIR
AMB=AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = other

**Media Codes:
S=summa can
TB=tedlar bag
P=PUF
T=tube
F= filter
C=cassette
O = Other

** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAC & WBE/DBE Certified

ANALYTICAL RESULTS
SUMMARY

PROJECT NAME : 275 FRANKLIN STREET

MALCOLM PIRNIE
50 Fountain Plaza
Suite 600
Buffalo , NY - 14202
Phone No: 7166676640

ORDER ID : **A2790**

ATTENTION : **Jim Richert**

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO.
COC Number 080U16

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Malcolm Pirnie Inc.
ADDRESS: 50 Fountain Plz #600
CITY: Buffalo STATE: NY ZIP: 14202
ATTENTION: Jim Rauert
PHONE: 716 667 0900 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: 275 Franklin St
PROJECT NO.: 0266 37 LOCATION: Buffalo NY
PROJECT MANAGER: Jim Rauert
e-mail: JRauert@pirnie.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: ______ DAYS *
HARD COPY: ______ DAYS *
EDD: ______ DAYS *
PREAPPROVED TAT: ☐ YES ☐ NO
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY ☐ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other ______
☐ EDD FORMAT ______

ANALYSIS: 1: 8260; 2–9: (blank)

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	COLLECTION DATE	COLLECTION TIME	# OF BOTTLES	1 (E)	2	3	4	5	6	7	8	9	COMMENTS
1.	C915208-05-SB-MW 210 18-20	soil		✓	5/14/09	0920	1	✓		21D			18-20				
2.	C915208-05-SB-MW 210 44-46	↓		✓		1140	1	✓					44-46				
3.	C915208-05-SB-MW 220 18-20	↓		✓	5/14/09	1045	1	✓									
4.	C915208-05-SB-MW 220 44-46	↓		✓	5/14/09	0935	1	✓		22D			18-20				
5.													44-46				
6.																	
7.	TB 5/15/09	H_2O						✓									
8.																	
9.																	
10.																	

← Specify Preservatives
A – HCl B – HNO_3
C – H_2SO_4 D – NaOH
E – ICE F – Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY	DATE/TIME	RECEIVED BY
RELINQUISHED BY SAMPLER: 1. D. Simmons	5/15/09 1600	RECEIVED BY: 1.
RELINQUISHED BY: 2.	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY: 3.	DATE/TIME:	RECEIVED FOR LAB BY: 3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant Cooler Temp. ______
MeOH extraction requires an additional 4 oz jar for percent solid.
Ice in Cooler?: ______
Comments:

Page 1 of 1

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☐ OVERNIGHT
CHEMTECH: ☑ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☐ YES ☐ NO

Revision 8/2007

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sample ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
C915208-OS-SB-MW-21D-18-20	A2790-01	8260					Chemtech -SOP
C915208-OS-SB-MW-21D-44-46	A2790-02	8260					Chemtech -SOP
C915208-OS-SB-MW-22D-18-20	A2790-03	8260					Chemtech -SOP
C915208-OS-SB-MW-22D-44-46	A2790-04	8260					Chemtech -SOP
TB-5-15-09	A2790-05	8260					

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IIb

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE (VOA) ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
A2790-01	SOIL	05/12/09	05/18/09		05/22/09
A2790-02	SOIL	05/12/09	05/18/09		05/22/09
A2790-03	SOIL	05/14/09	05/18/09		05/22/09
A2790-04	SOIL	05/15/09	05/18/09		05/22/09
A2790-05	WATER	05/15/09	05/18/09		05/23/09

* Details For Test :VOC-TCLVOA-10

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-III

SAMPLE PREPARATION AND ANALYSIS SUMMARY
MISCELLANEOUS ORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
A2790-01	Solid	8260	5035		
A2790-02	Solid	8260	5035		
A2790-03	Solid	8260	5035		
A2790-04	Solid	8260	5035		
A2790-05	Water	8260	5035,OLM04.3		

CHEMTECH
284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Cover Page

Order ID : A2790

Project ID : 275 Franklin Street

Client : Malcolm Pirnie

Lab Sample Number	Client Sample Number
A2790-01	C915208-OS-SB-MW-21D-18-20
A2790-02	C915208-OS-SB-MW-21D-44-46
A2790-03	C915208-OS-SB-MW-22D-18-20
A2790-04	C915208-OS-SB-MW-22D-44-46
A2790-05	TB-5-15-09

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : Mildred V Reyes

Mildred V. Reyes
I am approving this document
2009.06.02 15:54:51 -04'00'

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CHEMTECH

CASE NARRATIVE

Malcolm Pirnie
Project Name: 275 Franklin Street
Project # N/A
Chemtech Project # A2790

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 5/18/09.
1 Water sample was received on 5/18/09.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOC-TCLVOA-10, and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA K were done using GC column RTX-VMS which is 20 meters, 0.18 ID, 1.0 df, Restek Cat. #49914. The Trap was supplied by OI Analytical, OI #10 Trap , OI 4560 Concentrator.The analysis performed on instrument MSVOA G were done using GC column RTX-VMS which is 20 meters, 0.18 ID, 1.0 df, Restek Cat. #49914. The Trap was supplied by OI Analytical, OI #10 Trap , OI Eclipse 4660 Concentrator.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds except for 1,2-Dichloroethane and t-1,3-Dichloropropene.
The MSD recoveries met the acceptable requirements.
The RPD recoveries met criteria except for Bromomethane and Methyl Acetate.
The Blank Spike met requirements for all samples except for Methyl Acetate and 1,2,4-Trichlorobenzene.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Tuning criteria met requirements.

E. Additional Comments:
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20 % for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20 % for the Initial Calibration curve for SW-846 analysis.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature Mildred V Reyes

Mildred V. Reyes
I am approving this document
2009.06.02 15:54:37 -04'00'

CHEMTECH

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C915208-OS-SB-MW-21D

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2790 SAS No.: A2790 SDG No.: A2790

Matrix (soil/water): SOIL Lab Sample ID: A2790-01

Sample wt/vol: 1 (g/mL) g Lab File ID: VK032615.D

Level: (low/med) LOW Date Received: 05/18/09

% Moisture: not dec. 16 Date Analyzed: 05/22/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	Concentration Units: (ug/L or ug/Kg) ug/Kg	Q
75-71-8	Dichlorodifluoromethane	30	U
74-87-3	Chloromethane	30	U
75-01-4	Vinyl Chloride	30	U
74-83-9	Bromomethane	30	U
75-00-3	Chloroethane	30	U
75-69-4	Trichlorofluoromethane	30	U
76-13-1	1,1,2-Trichlorotrifluoroethane	30	U
75-35-4	1,1-Dichloroethene	30	U
67-64-1	Acetone	150	U
75-15-0	Carbon Disulfide	30	U
1634-04-4	Methyl tert-butyl Ether	30	U
79-20-9	Methyl Acetate	30	U
75-09-2	Methylene Chloride	30	U
156-60-5	trans-1,2-Dichloroethene	30	U
75-34-3	1,1-Dichloroethane	30	U
110-82-7	Cyclohexane	30	U
78-93-3	2-Butanone	150	U
56-23-5	Carbon Tetrachloride	30	U
156-59-2	cis-1,2-Dichloroethene	30	U
67-66-3	Chloroform	30	U
71-55-6	1,1,1-Trichloroethane	30	U
108-87-2	Methylcyclohexane	30	U
71-43-2	Benzene	30	U
107-06-2	1,2-Dichloroethane	30	U
79-01-6	Trichloroethene	30	U
78-87-5	1,2-Dichloropropane	30	U
75-27-4	Bromodichloromethane	30	U

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C915208-OS-SB-MW-21D

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2790 SAS No.: A2790 SDG No.: A2790

Matrix (soil/water): SOIL Lab Sample ID: A2790-01

Sample wt/vol: 1 (g/mL) g Lab File ID: VK032615.D

Level: (low/med) LOW Date Received: 05/18/09

% Moisture: not dec. 16 Date Analyzed: 05/22/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/Kg	Q
108-10-1	4-Methyl-2-Pentanone	150	U
108-88-3	Toluene	30	U
10061-02-6	t-1,3-Dichloropropene	30	U
10061-01-5	cis-1,3-Dichloropropene	30	U
79-00-5	1,1,2-Trichloroethane	30	U
591-78-6	2-Hexanone	150	U
124-48-1	Dibromochloromethane	30	U
106-93-4	1,2-Dibromoethane	30	U
127-18-4	Tetrachloroethene	30	U
108-90-7	Chlorobenzene	30	U
100-41-4	Ethyl Benzene	30	U
179601-23-1	m/p-Xylenes	60	U
95-47-6	o-Xylene	30	U
100-42-5	Styrene	30	U
75-25-2	Bromoform	30	U
98-82-8	Isopropylbenzene	30	U
79-34-5	1,1,2,2-Tetrachloroethane	30	U
541-73-1	1,3-Dichlorobenzene	30	U
106-46-7	1,4-Dichlorobenzene	30	U
95-50-1	1,2-Dichlorobenzene	30	U
96-12-8	1,2-Dibromo-3-Chloropropane	30	U
120-82-1	1,2,4-Trichlorobenzene	30	U

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C915208-OS-SB-MW-21D

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2790 SAS No.: A2790 SDG No.: A2790

Matrix (soil/water): SOIL Lab Sample ID: A2790-02

Sample wt/vol: 1 (g/mL) g Lab File ID: VK032618.D

Level: (low/med) LOW Date Received: 05/18/09

% Moisture: not dec. 18 Date Analyzed: 05/22/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/Kg	Q
75-71-8	Dichlorodifluoromethane	30	U
74-87-3	Chloromethane	30	U
75-01-4	Vinyl Chloride	30	U
74-83-9	Bromomethane	30	U
75-00-3	Chloroethane	30	U
75-69-4	Trichlorofluoromethane	30	U
76-13-1	1,1,2-Trichlorotrifluoroethane	30	U
75-35-4	1,1-Dichloroethene	30	U
67-64-1	Acetone	150	U
75-15-0	Carbon Disulfide	30	U
1634-04-4	Methyl tert-butyl Ether	30	U
79-20-9	Methyl Acetate	30	U
75-09-2	Methylene Chloride	30	U
156-60-5	trans-1,2-Dichloroethene	30	U
75-34-3	1,1-Dichloroethane	30	U
110-82-7	Cyclohexane	30	U
78-93-3	2-Butanone	150	U
56-23-5	Carbon Tetrachloride	30	U
156-59-2	cis-1,2-Dichloroethene	30	U
67-66-3	Chloroform	30	U
71-55-6	1,1,1-Trichloroethane	30	U
108-87-2	Methylcyclohexane	30	U
71-43-2	Benzene	30	U
107-06-2	1,2-Dichloroethane	30	U
79-01-6	Trichloroethene	30	U
78-87-5	1,2-Dichloropropane	30	U
75-27-4	Bromodichloromethane	30	U
108-10-1	4-Methyl-2-Pentanone	150	U
108-88-3	Toluene	30	U

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C915208-OS-SB-MW-21D

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2790 SAS No.: A2790 SDG No.: A2790

Matrix (soil/water): SOIL Lab Sample ID: A2790-02

Sample wt/vol: 1 (g/mL) g Lab File ID: VK032618.D

Level: (low/med) LOW Date Received: 05/18/09

% Moisture: not dec. 18 Date Analyzed: 05/22/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/Kg	Q
10061-02-6	t-1,3-Dichloropropene	30	U
10061-01-5	cis-1,3-Dichloropropene	30	U
79-00-5	1,1,2-Trichloroethane	30	U
591-78-6	2-Hexanone	150	U
124-48-1	Dibromochloromethane	30	U
106-93-4	1,2-Dibromoethane	30	U
127-18-4	Tetrachloroethene	30	U
108-90-7	Chlorobenzene	30	U
100-41-4	Ethyl Benzene	30	U
179601-23-1	m/p-Xylenes	61	U
95-47-6	o-Xylene	30	U
100-42-5	Styrene	30	U
75-25-2	Bromoform	30	U
98-82-8	Isopropylbenzene	30	U
79-34-5	1,1,2,2-Tetrachloroethane	30	U
541-73-1	1,3-Dichlorobenzene	30	U
106-46-7	1,4-Dichlorobenzene	30	U
95-50-1	1,2-Dichlorobenzene	30	U
96-12-8	1,2-Dibromo-3-Chloropropane	30	U
120-82-1	1,2,4-Trichlorobenzene	30	U

CHEMTECH

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C915208-OS-SB-MW-22D

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2790 SAS No.: A2790 SDG No.: A2790

Matrix (soil/water): SOIL Lab Sample ID: A2790-03

Sample wt/vol: 1 (g/mL) g Lab File ID: VK032619.D

Level: (low/med) LOW Date Received: 05/18/09

% Moisture: not dec. 19 Date Analyzed: 05/22/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/Kg	Q
75-71-8	Dichlorodifluoromethane	31	U
74-87-3	Chloromethane	31	U
75-01-4	Vinyl Chloride	31	U
74-83-9	Bromomethane	31	U
75-00-3	Chloroethane	31	U
75-69-4	Trichlorofluoromethane	31	U
76-13-1	1,1,2-Trichlorotrifluoroethane	31	U
75-35-4	1,1-Dichloroethene	31	U
67-64-1	Acetone	150	U
75-15-0	Carbon Disulfide	31	U
1634-04-4	Methyl tert-butyl Ether	31	U
79-20-9	Methyl Acetate	31	U
75-09-2	Methylene Chloride	31	U
156-60-5	trans-1,2-Dichloroethene	31	U
75-34-3	1,1-Dichloroethane	31	U
110-82-7	Cyclohexane	31	U
78-93-3	2-Butanone	150	U
56-23-5	Carbon Tetrachloride	31	U
156-59-2	cis-1,2-Dichloroethene	31	U
67-66-3	Chloroform	31	U
71-55-6	1,1,1-Trichloroethane	31	U
108-87-2	Methylcyclohexane	31	U
71-43-2	Benzene	31	U
107-06-2	1,2-Dichloroethane	31	U
79-01-6	Trichloroethene	31	U
78-87-5	1,2-Dichloropropane	31	U
75-27-4	Bromodichloromethane	31	U
108-10-1	4-Methyl-2-Pentanone	150	U
108-88-3	Toluene	31	U

CHEMTECH

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C915208-OS-SB-MW-22D

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2790 SAS No.: A2790 SDG No.: A2790

Matrix (soil/water): SOIL Lab Sample ID: A2790-03

Sample wt/vol: 1 (g/mL) g Lab File ID: VK032619.D

Level: (low/med) LOW Date Received: 05/18/09

% Moisture: not dec. 19 Date Analyzed: 05/22/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/Kg	Q
10061-02-6	t-1,3-Dichloropropene	31	U
10061-01-5	cis-1,3-Dichloropropene	31	U
79-00-5	1,1,2-Trichloroethane	31	U
591-78-6	2-Hexanone	150	U
124-48-1	Dibromochloromethane	31	U
106-93-4	1,2-Dibromoethane	31	U
127-18-4	Tetrachloroethene	31	U
108-90-7	Chlorobenzene	31	U
100-41-4	Ethyl Benzene	31	U
179601-23-1	m/p-Xylenes	62	U
95-47-6	o-Xylene	31	U
100-42-5	Styrene	31	U
75-25-2	Bromoform	31	U
98-82-8	Isopropylbenzene	31	U
79-34-5	1,1,2,2-Tetrachloroethane	31	U
541-73-1	1,3-Dichlorobenzene	31	U
106-46-7	1,4-Dichlorobenzene	31	U
95-50-1	1,2-Dichlorobenzene	31	U
96-12-8	1,2-Dibromo-3-Chloropropane	31	U
120-82-1	1,2,4-Trichlorobenzene	31	U

CHEMTECH

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C915208-OS-SB-MW-22D

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2790 SAS No.: A2790 SDG No.: A2790

Matrix (soil/water): SOIL Lab Sample ID: A2790-04

Sample wt/vol: 1 (g/mL) g Lab File ID: VK032620.D

Level: (low/med) LOW Date Received: 05/18/09

% Moisture: not dec. 27 Date Analyzed: 05/22/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/Kg	Q
75-71-8	Dichlorodifluoromethane	34	U
74-87-3	Chloromethane	34	U
75-01-4	Vinyl Chloride	34	U
74-83-9	Bromomethane	34	U
75-00-3	Chloroethane	34	U
75-69-4	Trichlorofluoromethane	34	U
76-13-1	1,1,2-Trichlorotrifluoroethane	34	U
75-35-4	1,1-Dichloroethene	34	U
67-64-1	Acetone	170	U
75-15-0	Carbon Disulfide	34	U
1634-04-4	Methyl tert-butyl Ether	34	U
79-20-9	Methyl Acetate	34	U
75-09-2	Methylene Chloride	34	U
156-60-5	trans-1,2-Dichloroethene	34	U
75-34-3	1,1-Dichloroethane	34	U
110-82-7	Cyclohexane	34	U
78-93-3	2-Butanone	170	U
56-23-5	Carbon Tetrachloride	34	U
156-59-2	cis-1,2-Dichloroethene	34	U
67-66-3	Chloroform	34	U
71-55-6	1,1,1-Trichloroethane	34	U
108-87-2	Methylcyclohexane	34	U
71-43-2	Benzene	34	U
107-06-2	1,2-Dichloroethane	34	U
79-01-6	Trichloroethene	34	U
78-87-5	1,2-Dichloropropane	34	U
75-27-4	Bromodichloromethane	34	U
108-10-1	4-Methyl-2-Pentanone	170	U
108-88-3	Toluene	34	U

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C915208-OS-SB-MW-22D

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2790 SAS No.: A2790 SDG No.: A2790

Matrix (soil/water): SOIL Lab Sample ID: A2790-04

Sample wt/vol: 1 (g/mL) g Lab File ID: VK032620.D

Level: (low/med) LOW Date Received: 05/18/09

% Moisture: not dec. 27 Date Analyzed: 05/22/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/Kg	Q
10061-02-6	t-1,3-Dichloropropene	34	U
10061-01-5	cis-1,3-Dichloropropene	34	U
79-00-5	1,1,2-Trichloroethane	34	U
591-78-6	2-Hexanone	170	U
124-48-1	Dibromochloromethane	34	U
106-93-4	1,2-Dibromoethane	34	U
127-18-4	Tetrachloroethene	34	U
108-90-7	Chlorobenzene	34	U
100-41-4	Ethyl Benzene	34	U
179601-23-1	m/p-Xylenes	68	U
95-47-6	o-Xylene	34	U
100-42-5	Styrene	34	U
75-25-2	Bromoform	34	U
98-82-8	Isopropylbenzene	34	U
79-34-5	1,1,2,2-Tetrachloroethane	34	U
541-73-1	1,3-Dichlorobenzene	34	U
106-46-7	1,4-Dichlorobenzene	34	U
95-50-1	1,2-Dichlorobenzene	34	U
96-12-8	1,2-Dibromo-3-Chloropropane	34	U
120-82-1	1,2,4-Trichlorobenzene	34	U

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-5-15-09

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2790 SAS No.: A2790 SDG No.: A2790

Matrix (soil/water): WATER Lab Sample ID: A2790-05

Sample wt/vol: 5 (g/mL) ml Lab File ID: VG018861.D

Level: (low/med) Date Received: 05/18/09

% Moisture: not dec. 100 Date Analyzed: 05/23/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
76-13-1	1,1,2-Trichlorotrifluoroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	25	U
75-15-0	Carbon Disulfide	5	U
1634-04-4	Methyl tert-butyl Ether	5	U
79-20-9	Methyl Acetate	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
110-82-7	Cyclohexane	5	U
78-93-3	2-Butanone	25	U
56-23-5	Carbon Tetrachloride	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
108-87-2	Methylcyclohexane	5	U
71-43-2	Benzene	5	U
107-06-2	1,2-Dichloroethane	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
108-10-1	4-Methyl-2-Pentanone	25	U
108-88-3	Toluene	5	U

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-5-15-09

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2790 SAS No.: A2790 SDG No.: A2790

Matrix (soil/water): WATER Lab Sample ID: A2790-05

Sample wt/vol: 5 (g/mL) ml Lab File ID: VG018861.D

Level: (low/med) Date Received: 05/18/09

% Moisture: not dec. 100 Date Analyzed: 05/23/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
10061-02-6	t-1,3-Dichloropropene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
591-78-6	2-Hexanone	25	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethyl Benzene	5	U
179601-23-1	m/p-Xylenes	10	U
95-47-6	o-Xylene	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

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Hit Summary Sheet
SW-846

SDG No.: _____

Client: _____

Sample ID	Client ID	Parameter	Concentration	C	RDL	MDL	Units
Client ID:							

Total Concentration:

CHEMTECH 284 Sheffield Street • Mountainside, NJ 07092 Phone: 908.789.8900 Fax: 908.789.8922

ANALYTICAL RESULTS SUMMARY

PROJECT NAME : 275 FRANKLIN STREET

MALCOLM PIRNIE
50 Fountain Plaza
Suite 600
Buffalo , NY - 14202
Phone No: 7166676640

ORDER ID : A2837
ATTENTION : Jim Richert

Soils
23D 18-20
44-46
24D 10-12
44-46

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO.
QUOTE NO. A2837
COC Number 080018

CLIENT INFORMATION (REPORT TO BE SENT TO:)

COMPANY: Malcolm Pirnie Inc.
ADDRESS: 50 Fountain Plz. Suite 600
CITY: Buffalo STATE: NY ZIP: 14202
ATTENTION: Jim Rochart
PHONE: (716) 667-6654 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: ~~2875~~ Franklin St.
PROJECT NO. 02666-377 LOCATION: Buffalo NY
PROJECT MANAGER: Jim Rochart
e-mail: jrochart@pirnie.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: DAYS *
HARD COPY: Standard. DAYS *
EDD: DAYS *
PREAPPROVED TAT: ☐ YES ☐ NO
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY ☐ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other
☐ EDD FORMAT

ANALYSIS

8260

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								E									← Specify Preservatives A-HCl B-HNO_3 C-H_2SO_4 D-NaOH E-ICE F-Other
1.	C915208-05-SB-MW-23D 18-20'	Soil		✓	5/18/09	1310	1	✓			23D		18-20				
2.	C915208-05-SB-MW-23D 44-46'			✓	5/18/09	1530	1	✓					44-46				
3.	C915208-05-SB-MW-24D 10'-12'			✓	5/20/09	0930	1	✓									
4.	C915208-05-SB-MW-24D 44-46'			✓	5/20/09	1315	1	✓									
5.	C915208-05-SB-MW-24D 44-46' MS			✓	5/20/09	1315	1	✓			24	-	10-12				
6.	C915208-05-SB-MW-24D 44-46' MSD			✓	5/20/09	1315	1	✓					44-46				
7.	Trip Blank	DI					2	✓									
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. D. Spruill	5/20/09 1630	1.
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY:	DATE/TIME: 9:40	RECEIVED FOR LAB BY:
3. FED-EX	5-21-09	3. [illegible]

Conditions of bottles or coolers at receipt: ☑ Compliant ☐ Non Compliant Cooler Temp. 5°C
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments: Ice in Cooler?: Yes

Page 1 of 1

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☑ OVERNIGHT
CHEMTECH: ☐ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☑ YES ☐ NO

Revision 8/2007

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sample ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
C915208-OS-SB-MW-23D-18-20	A2837-01	8260					Chemtech -SOP
C915208-OS-SB-MW-23D-44-46	A2837-02	8260					Chemtech -SOP
C915208-OS-SB-MW-24D-10-12	A2837-03	8260					Chemtech -SOP
C915208-OS-SB-MW-24D-44-46	A2837-04	8260					Chemtech -SOP

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IIb

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE (VOA) ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
A2837-01	SOIL	05/18/09	05/21/09		05/27/09
A2837-02	SOIL	05/18/09	05/21/09		05/27/09
A2837-03	SOIL	05/20/09	05/21/09		05/27/09
A2837-04	SOIL	05/20/09	05/21/09		05/27/09
A2837-07	WATER	05/20/09	05/21/09		05/23/09

* Details For Test :VOC-TCLVOA-10

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-III

SAMPLE PREPARATION AND ANALYSIS SUMMARY
MISCELLANEOUS ORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
A2837-01	Solid	8260	5035		
A2837-02	Solid	8260	5035		
A2837-03	Solid	8260	5035		
A2837-04	Solid	8260	5035		
A2837-05	Solid	8260	5035		
A2837-06	Solid	8260	5035		

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

Cover Page

Order ID : A2837

Project ID : 275 Franklin Street

Client : Malcolm Pirnie

Lab Sample Number	Client Sample Number
A2837-01	C915208-OS-SB-MW-23D-18-20
A2837-02	C915208-OS-SB-MW-23D-44-46
A2837-03	C915208-OS-SB-MW-24D-10-12
A2837-04	C915208-OS-SB-MW-24D-44-46
A2837-05	A2837-04MS
A2837-06	A2837-04MSD
A2837-07	TRIPBLANK

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : Mildred V Reyes

Mildred V. Reyes
I am approving this document
2009.06.05 15:20:12 -04'00'

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CHEMTECH

CASE NARRATIVE

Malcolm Pirnie
Project Name: 275 Franklin Street
Project # N/A
Chemtech Project # A2837

A. Number of Samples and Date of Receipt:
1 Solid sample was received on 5/21/09.
6 Solid samples were received on 5/21/09.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA G were done using GC column RTX-VMS which is 20 meters, 0.18 ID, 1.0 df, Restek Cat. #49914. The Trap was supplied by OI Analytical, OI #10 Trap , OI Eclipse 4660 Concentrator.The analysis performed on instrument MSVOA D were done using GC column RTX-VMS which is 20 meters, 0.18 ID, 1.0 df, Restek Cat. #49914. The Trap was supplied by OI Analytical, OI #10 Trap , OI Eclipse 4660 Concentrator.
The analysis of TCL Volatiles + 10 was based on method 8260.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements except for 1,2-Dichlorobenzene.
The RPD recoveries met criteria except for Bromomethane and Chloroethane.
The Blank Spike met requirements for all samples except for 4-Methyl-2-Pentanone and Methyl Acetate but it was not detected in Samples.
The Blank Spike RPD recoveries met criteria except for Bromomethane and Methyl Acetate.
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements except for Methyl Acetate.
The Continuing Calibration met the requirements except for Chloroethane but it was not detected in Samples.
The Tuning criteria met requirements.

E. Additional Comments:
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial

Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature Mildred V Reyes

Mildred V. Reyes
I am approving this document
2009.06.05 15:19:57 -04'00'

CHEMTECH

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C915208-OS-SB-MW-23D

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2837 SAS No.: A2837 SDG No.: A2837

Matrix (soil/water): SOIL Lab Sample ID: A2837-01

Sample wt/vol: 1 (g/mL) g Lab File ID: VD024139.D

Level: (low/med) LOW Date Received: 05/21/09

% Moisture: not dec. 17 Date Analyzed: 05/27/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/Kg	Q
75-71-8	Dichlorodifluoromethane	30	U
74-87-3	Chloromethane	30	U
75-01-4	Vinyl Chloride	30	U
74-83-9	Bromomethane	30	U
75-00-3	Chloroethane	30	U
75-69-4	Trichlorofluoromethane	30	U
76-13-1	1,1,2-Trichlorotrifluoroethane	30	U
75-35-4	1,1-Dichloroethene	30	U
67-64-1	Acetone	150	U
75-15-0	Carbon Disulfide	30	U
1634-04-4	Methyl tert-butyl Ether	30	U
79-20-9	Methyl Acetate	30	U
75-09-2	Methylene Chloride	30	U
156-60-5	trans-1,2-Dichloroethene	30	U
75-34-3	1,1-Dichloroethane	30	U
110-82-7	Cyclohexane	30	U
78-93-3	2-Butanone	150	U
56-23-5	Carbon Tetrachloride	30	U
156-59-2	cis-1,2-Dichloroethene	30	U
67-66-3	Chloroform	30	U
71-55-6	1,1,1-Trichloroethane	30	U
108-87-2	Methylcyclohexane	30	U
71-43-2	Benzene	30	U
107-06-2	1,2-Dichloroethane	30	U
79-01-6	Trichloroethene	30	U
78-87-5	1,2-Dichloropropane	30	U
75-27-4	Bromodichloromethane	30	U

CHEMTECH

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C915208-OS-SB-MW-23D

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2837 SAS No.: A2837 SDG No.: A2837

Matrix (soil/water): SOIL Lab Sample ID: A2837-01

Sample wt/vol: 1 (g/mL) g Lab File ID: VD024139.D

Level: (low/med) LOW Date Received: 05/21/09

% Moisture: not dec. 17 Date Analyzed: 05/27/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/Kg	Q
108-10-1	4-Methyl-2-Pentanone	150	U
108-88-3	Toluene	30	U
10061-02-6	t-1,3-Dichloropropene	30	U
10061-01-5	cis-1,3-Dichloropropene	30	U
79-00-5	1,1,2-Trichloroethane	30	U
591-78-6	2-Hexanone	150	U
124-48-1	Dibromochloromethane	30	U
106-93-4	1,2-Dibromoethane	30	U
127-18-4	Tetrachloroethene	18	J
108-90-7	Chlorobenzene	30	U
100-41-4	Ethyl Benzene	30	U
179601-23-1	m/p-Xylenes	60	U
95-47-6	o-Xylene	30	U
100-42-5	Styrene	30	U
75-25-2	Bromoform	30	U
98-82-8	Isopropylbenzene	30	U
79-34-5	1,1,2,2-Tetrachloroethane	30	U
541-73-1	1,3-Dichlorobenzene	30	U
106-46-7	1,4-Dichlorobenzene	30	U
95-50-1	1,2-Dichlorobenzene	30	U
96-12-8	1,2-Dibromo-3-Chloropropane	30	U
120-82-1	1,2,4-Trichlorobenzene	30	U

CHEMTECH

-1E-

SOIL VOLATILE ANALYSIS
TENTIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
C915208-OS-SB-MW-23D

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2837 SAS No.: A2837 SDG No.: A2837

Matrix (soil/water): SOIL Lab Sample ID: A2837-01

Sample wt/vol: 1 (g/mL) g Lab File ID: VD024139.D

Level: (low/med) LOW Date Received: 05/21/09

% Moisture: not dec. 17 Date Analyzed: 05/27/09

GC Column: RTX-VMS ID: 0.18 Dilution Factor: 1

Soil Extract Volume: 5000 Soil Aliquot Volume:

Number TICS found: 1 Concentration Units: ug/Kg

(ug/L or ug/Kg)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
91-20-3	Naphthalene	10.04	73	J

CHEMTECH

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C915208-OS-SB-MW-23D

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2837 SAS No.: A2837 SDG No.: A2837

Matrix (soil/water): SOIL Lab Sample ID: A2837-02

Sample wt/vol: 1 (g/mL) g Lab File ID: VD024140.D

Level: (low/med) LOW Date Received: 05/21/09

% Moisture: not dec. 19 Date Analyzed: 05/27/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/Kg	Q
75-71-8	Dichlorodifluoromethane	31	U
74-87-3	Chloromethane	31	U
75-01-4	Vinyl Chloride	31	U
74-83-9	Bromomethane	31	U
75-00-3	Chloroethane	31	U
75-69-4	Trichlorofluoromethane	31	U
76-13-1	1,1,2-Trichlorotrifluoroethane	31	U
75-35-4	1,1-Dichloroethene	31	U
67-64-1	Acetone	150	U
75-15-0	Carbon Disulfide	31	U
1634-04-4	Methyl tert-butyl Ether	31	U
79-20-9	Methyl Acetate	31	U
75-09-2	Methylene Chloride	31	U
156-60-5	trans-1,2-Dichloroethene	31	U
75-34-3	1,1-Dichloroethane	31	U
110-82-7	Cyclohexane	31	U
78-93-3	2-Butanone	150	U
56-23-5	Carbon Tetrachloride	31	U
156-59-2	cis-1,2-Dichloroethene	31	U
67-66-3	Chloroform	31	U
71-55-6	1,1,1-Trichloroethane	31	U
108-87-2	Methylcyclohexane	31	U
71-43-2	Benzene	31	U
107-06-2	1,2-Dichloroethane	31	U
79-01-6	Trichloroethene	31	U
78-87-5	1,2-Dichloropropane	31	U
75-27-4	Bromodichloromethane	31	U
108-10-1	4-Methyl-2-Pentanone	150	U
108-88-3	Toluene	31	U

CHEMTECH

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C915208-OS-SB-MW-23D

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2837 SAS No.: A2837 SDG No.: A2837

Matrix (soil/water): SOIL Lab Sample ID: A2837-02

Sample wt/vol: 1 (g/mL) g Lab File ID: VD024140.D

Level: (low/med) LOW Date Received: 05/21/09

% Moisture: not dec. 19 Date Analyzed: 05/27/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/Kg	Q
10061-02-6	t-1,3-Dichloropropene	31	U
10061-01-5	cis-1,3-Dichloropropene	31	U
79-00-5	1,1,2-Trichloroethane	31	U
591-78-6	2-Hexanone	150	U
124-48-1	Dibromochloromethane	31	U
106-93-4	1,2-Dibromoethane	31	U
127-18-4	Tetrachloroethene	31	U
108-90-7	Chlorobenzene	31	U
100-41-4	Ethyl Benzene	31	U
179601-23-1	m/p-Xylenes	62	U
95-47-6	o-Xylene	31	U
100-42-5	Styrene	31	U
75-25-2	Bromoform	31	U
98-82-8	Isopropylbenzene	31	U
79-34-5	1,1,2,2-Tetrachloroethane	31	U
541-73-1	1,3-Dichlorobenzene	31	U
106-46-7	1,4-Dichlorobenzene	31	U
95-50-1	1,2-Dichlorobenzene	31	U
96-12-8	1,2-Dibromo-3-Chloropropane	31	U
120-82-1	1,2,4-Trichlorobenzene	31	U

CHEMTECH

-1E-

SOIL VOLATILE ANALYSIS

TENTIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

C915208-OS-SB-MW-23D

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2837 SAS No.: A2837 SDG No.: A2837

Matrix (soil/water): SOIL Lab Sample ID: A2837-02

Sample wt/vol: 1 (g/mL) g Lab File ID: VD024140.D

Level: (low/med) LOW Date Received: 05/21/09

% Moisture: not dec. 19 Date Analyzed: 05/27/09

GC Column: RTX-VMS ID: 0.18 Dilution Factor: 1

Soil Extract Volume: 5000 Soil Aliquot Volume:

Number TICS found: 1 Concentration Units: ug/Kg

(ug/L or ug/Kg)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
91-20-3	Naphthalene	10.03	57	J

CHEMTECH

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C915208-OS-SB-MW-24D

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2837 SAS No.: A2837 SDG No.: A2837

Matrix (soil/water): SOIL Lab Sample ID: A2837-03

Sample wt/vol: 1 (g/mL) g Lab File ID: VD024170.D

Level: (low/med) LOW Date Received: 05/21/09

% Moisture: not dec. 18 Date Analyzed: 05/27/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/Kg	Q
75-71-8	Dichlorodifluoromethane	30	U
74-87-3	Chloromethane	30	U
75-01-4	Vinyl Chloride	30	U
74-83-9	Bromomethane	30	U
75-00-3	Chloroethane	30	U
75-69-4	Trichlorofluoromethane	30	U
76-13-1	1,1,2-Trichlorotrifluoroethane	30	U
75-35-4	1,1-Dichloroethene	30	U
67-64-1	Acetone	150	U
75-15-0	Carbon Disulfide	30	U
1634-04-4	Methyl tert-butyl Ether	30	U
79-20-9	Methyl Acetate	30	U
75-09-2	Methylene Chloride	30	U
156-60-5	trans-1,2-Dichloroethene	30	U
75-34-3	1,1-Dichloroethane	30	U
110-82-7	Cyclohexane	30	U
78-93-3	2-Butanone	150	U
56-23-5	Carbon Tetrachloride	30	U
156-59-2	cis-1,2-Dichloroethene	30	U
67-66-3	Chloroform	30	U
71-55-6	1,1,1-Trichloroethane	30	U
108-87-2	Methylcyclohexane	30	U
71-43-2	Benzene	30	U
107-06-2	1,2-Dichloroethane	30	U
79-01-6	Trichloroethene	30	U
78-87-5	1,2-Dichloropropane	30	U
75-27-4	Bromodichloromethane	30	U
108-10-1	4-Methyl-2-Pentanone	150	U
108-88-3	Toluene	30	U

CHEMTECH

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C915208-OS-SB-MW-24D

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2837 SAS No.: A2837 SDG No.: A2837

Matrix (soil/water): SOIL Lab Sample ID: A2837-03

Sample wt/vol: 1 (g/mL) g Lab File ID: VD024170.D

Level: (low/med) LOW Date Received: 05/21/09

% Moisture: not dec. 18 Date Analyzed: 05/27/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/Kg	Q
10061-02-6	t-1,3-Dichloropropene	30	U
10061-01-5	cis-1,3-Dichloropropene	30	U
79-00-5	1,1,2-Trichloroethane	30	U
591-78-6	2-Hexanone	150	U
124-48-1	Dibromochloromethane	30	U
106-93-4	1,2-Dibromoethane	30	U
127-18-4	Tetrachloroethene	330	
108-90-7	Chlorobenzene	30	U
100-41-4	Ethyl Benzene	30	U
179601-23-1	m/p-Xylenes	61	U
95-47-6	o-Xylene	30	U
100-42-5	Styrene	30	U
75-25-2	Bromoform	30	U
98-82-8	Isopropylbenzene	30	U
79-34-5	1,1,2,2-Tetrachloroethane	30	U
541-73-1	1,3-Dichlorobenzene	30	U
106-46-7	1,4-Dichlorobenzene	30	U
95-50-1	1,2-Dichlorobenzene	30	U
96-12-8	1,2-Dibromo-3-Chloropropane	30	U
120-82-1	1,2,4-Trichlorobenzene	30	U

CHEMTECH

-1E-

SOIL VOLATILE ANALYSIS
TENTIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
C915208-OS-SB-MW-24D

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2837 SAS No.: A2837 SDG No.: A2837

Matrix (soil/water): SOIL Lab Sample ID: A2837-03

Sample wt/vol: 1 (g/mL) g Lab File ID: VD024170.D

Level: (low/med) LOW Date Received: 05/21/09

% Moisture: not dec. 18 Date Analyzed: 05/27/09

GC Column: RTX-VMS ID: 0.18 Dilution Factor: 1

Soil Extract Volume: 5000 Soil Aliquot Volume:

Number TICS found: 1 Concentration Units: ug/Kg

(ug/L or ug/Kg)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
91-20-3	Naphthalene	10.07	9.0	J

CHEMTECH

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C915208-OS-SB-MW-24D

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2837 SAS No.: A2837 SDG No.: A2837

Matrix (soil/water): SOIL Lab Sample ID: A2837-04

Sample wt/vol: 1 (g/mL) g Lab File ID: VD024142.D

Level: (low/med) LOW Date Received: 05/21/09

% Moisture: not dec. 17 Date Analyzed: 05/27/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/Kg	Q
75-71-8	Dichlorodifluoromethane	30	U
74-87-3	Chloromethane	30	U
75-01-4	Vinyl Chloride	30	U
74-83-9	Bromomethane	30	U
75-00-3	Chloroethane	30	U
75-69-4	Trichlorofluoromethane	30	U
76-13-1	1,1,2-Trichlorotrifluoroethane	30	U
75-35-4	1,1-Dichloroethene	30	U
67-64-1	Acetone	150	U
75-15-0	Carbon Disulfide	30	U
1634-04-4	Methyl tert-butyl Ether	30	U
79-20-9	Methyl Acetate	30	U
75-09-2	Methylene Chloride	30	U
156-60-5	trans-1,2-Dichloroethene	30	U
75-34-3	1,1-Dichloroethane	30	U
110-82-7	Cyclohexane	30	U
78-93-3	2-Butanone	150	U
56-23-5	Carbon Tetrachloride	30	U
156-59-2	cis-1,2-Dichloroethene	30	U
67-66-3	Chloroform	30	U
71-55-6	1,1,1-Trichloroethane	30	U
108-87-2	Methylcyclohexane	30	U
71-43-2	Benzene	30	U
107-06-2	1,2-Dichloroethane	30	U
79-01-6	Trichloroethene	30	U
78-87-5	1,2-Dichloropropane	30	U
75-27-4	Bromodichloromethane	30	U
108-10-1	4-Methyl-2-Pentanone	150	U
108-88-3	Toluene	30	U

CHEMTECH

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C915208-OS-SB-MW-24D

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2837 SAS No.: A2837 SDG No.: A2837

Matrix (soil/water): SOIL Lab Sample ID: A2837-04

Sample wt/vol: 1 (g/mL) g Lab File ID: VD024142.D

Level: (low/med) LOW Date Received: 05/21/09

% Moisture: not dec. 17 Date Analyzed: 05/27/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/Kg	Q
10061-02-6	t-1,3-Dichloropropene	30	U
10061-01-5	cis-1,3-Dichloropropene	30	U
79-00-5	1,1,2-Trichloroethane	30	U
591-78-6	2-Hexanone	150	U
124-48-1	Dibromochloromethane	30	U
106-93-4	1,2-Dibromoethane	30	U
127-18-4	Tetrachloroethene	30	U
108-90-7	Chlorobenzene	30	U
100-41-4	Ethyl Benzene	30	U
179601-23-1	m/p-Xylenes	60	U
95-47-6	o-Xylene	30	U
100-42-5	Styrene	30	U
75-25-2	Bromoform	30	U
98-82-8	Isopropylbenzene	30	U
79-34-5	1,1,2,2-Tetrachloroethane	30	U
541-73-1	1,3-Dichlorobenzene	30	U
106-46-7	1,4-Dichlorobenzene	30	U
95-50-1	1,2-Dichlorobenzene	30	U
96-12-8	1,2-Dibromo-3-Chloropropane	30	U
120-82-1	1,2,4-Trichlorobenzene	30	U

CHEMTECH

-1E-

SOIL VOLATILE ANALYSIS
TENTIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
C915208-OS-SB-MW-24D

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2837 SAS No.: A2837 SDG No.: A2837

Matrix (soil/water): SOIL Lab Sample ID: A2837-04

Sample wt/vol: 1 (g/mL) g Lab File ID: VD024142.D

Level: (low/med) LOW Date Received: 05/21/09

% Moisture: not dec. 17 Date Analyzed: 05/27/09

GC Column: RTX-VMS ID: 0.18 Dilution Factor: 1

Soil Extract Volume: 5000 Soil Aliquot Volume:

Number TICS found: 1 Concentration Units: ug/Kg
(ug/L or ug/Kg)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
91-20-3	Naphthalene	10.04	47	J

CHEMTECH

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIPBLANK

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2837 SAS No.: A2837 SDG No.: A2837

Matrix (soil/water): WATER Lab Sample ID: A2837-07

Sample wt/vol: 5 (g/mL) ml Lab File ID: VG018862.D

Level: (low/med) Date Received: 05/21/09

% Moisture: not dec. 100 Date Analyzed: 05/23/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
76-13-1	1,1,2-Trichlorotrifluoroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	25	U
75-15-0	Carbon Disulfide	5	U
1634-04-4	Methyl tert-butyl Ether	5	U
79-20-9	Methyl Acetate	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
110-82-7	Cyclohexane	5	U
78-93-3	2-Butanone	25	U
56-23-5	Carbon Tetrachloride	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
108-87-2	Methylcyclohexane	5	U
71-43-2	Benzene	5	U
107-06-2	1,2-Dichloroethane	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
108-10-1	4-Methyl-2-Pentanone	25	U
108-88-3	Toluene	5	U

CHEMTECH

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: TRIPBLANK

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2837 SAS No.: A2837 SDG No.: A2837

Matrix (soil/water): WATER Lab Sample ID: A2837-07

Sample wt/vol: 5 (g/mL) ml Lab File ID: VG018862.D

Level: (low/med) Date Received: 05/21/09

% Moisture: not dec. 100 Date Analyzed: 05/23/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		Q
10061-02-6	t-1,3-Dichloropropene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
591-78-6	2-Hexanone	25	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
127-18-4	Tetrachloroethene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethyl Benzene	5	U
179601-23-1	m/p-Xylenes	10	U
95-47-6	o-Xylene	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

CHEMTECH

Hit Summary Sheet
SW-846

SDG No.: A2837

Client: Malcolm Pirnie

Sample ID	Client ID	Matrix	Parameter		Concentration	C	RDL	MDL	Units
Client ID:	**C915208-OS-SB-MW-23D-18-20**								
A2837-01	C915208-OS-SB-MW-:	SOIL	Tetrachloroethene		18.00	J	30	6.1	ug/Kg
			Total Voc :		**18.00**				
A2837-01	C915208-OS-SB-MW-:	SOIL	Naphthalene	*	73.00	J	30	2.7	ug/Kg
			Total Tics :		**73.00**				
			Total Concentration:		**91.00**				
Client ID:	**C915208-OS-SB-MW-23D-44-46**								
A2837-02	C915208-OS-SB-MW-:	SOIL	Naphthalene	*	57.00	J	31	2.8	ug/Kg
			Total Tics :		**57.00**				
			Total Concentration:		**57.00**				
Client ID:	**C915208-OS-SB-MW-24D-10-12**								
A2837-03	C915208-OS-SB-MW-:	SOIL	Tetrachloroethene		330.00		30	6.2	ug/Kg
			Total Voc :		**330.00**				
A2837-03	C915208-OS-SB-MW-:	SOIL	Naphthalene	*	9.00	J	30	2.7	ug/Kg
			Total Tics :		**9.00**				
			Total Concentration:		**339.00**				
Client ID:	**C915208-OS-SB-MW-24D-44-46**								
A2837-04	C915208-OS-SB-MW-:	SOIL	Naphthalene	*	47.00	J	30	2.7	ug/Kg
			Total Tics :		**47.00**				
			Total Concentration:		**47.00**				

CHEMTECH 284 Sheffield Street • Mountainside, NJ 07092 Phone: 908.789.8900 Fax: 908.789.8922

ANALYTICAL RESULTS SUMMARY

PROJECT NAME : 275 FRANKLIN STREET

MALCOLM PIRNIE
50 Fountain Plaza
Suite 600
Buffalo , NY - 14202
Phone No: 7166676640

ORDER ID : **A2908**
ATTENTION : **Jim Richert**

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sample ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
C915208-OS-GW-MW-21S	A2908-01	8260					
C915208-OS-GW-MW-21D	A2908-02	8260					
C915208-OS-GW-MW-22S	A2908-03	8260					
C915208-OS-GW-MW-22D	A2908-04	8260					
C915208-OS-GW-MW-23S	A2908-05	8260					
C915208-OS-GW-MW-23D	A2908-06	8260					
C915208-OS-GW-MW-24D	A2908-07	8260					
C915208-OS-GW-MW-24S	A2908-10	8260					
FIELDDUPLICATE	A2908-11	8260					
TRIPBLANK	A2908-12	8260					

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IIb

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE (VOA) ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
A2908-01	WATER	05/26/09	05/28/09		06/03/09
A2908-02	WATER	05/26/09	05/28/09		06/03/09
A2908-03	WATER	05/26/09	05/28/09		06/03/09
A2908-04	WATER	05/26/09	05/28/09		06/03/09
A2908-05	WATER	05/26/09	05/28/09		06/03/09
A2908-06	WATER	05/27/09	05/28/09		06/04/09
A2908-07	WATER	05/27/09	05/28/09		06/04/09
A2908-10	WATER	05/27/09	05/28/09		06/05/09
A2908-11	WATER	05/27/09	05/28/09		06/04/09
A2908-12	WATER	05/27/09	05/28/09		06/04/09

* Details For Test :VOC-TCLVOA-10

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-III

SAMPLE PREPARATION AND ANALYSIS SUMMARY
MISCELLANEOUS ORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
A2908-01	Water	8260	OLM04.3		
A2908-02	Water	8260	OLM04.3		
A2908-03	Water	8260	OLM04.3		
A2908-04	Water	8260	OLM04.3		
A2908-05	Water	8260	OLM04.3		
A2908-06	Water	8260	OLM04.3		
A2908-07	Water	8260	OLM04.3		
A2908-08	Water	8260	OLM04.3		
A2908-09	Water	8260	OLM04.3		
A2908-10	Water	8260	OLM04.3		
A2908-11	Water	8260	OLM04.3		
A2908-12	Water	8260	OLM04.3		

CHEMTECH
284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Cover Page

Order ID : A2908

Project ID : 275 Franklin Street

Client : Malcolm Pirnie

Lab Sample Number	Client Sample Number
A2908-01	C915208-OS-GW-MW-21S
A2908-02	C915208-OS-GW-MW-21D
A2908-03	C915208-OS-GW-MW-22S
A2908-04	C915208-OS-GW-MW-22D
A2908-05	C915208-OS-GW-MW-23S
A2908-06	C915208-OS-GW-MW-23D
A2908-07	C915208-OS-GW-MW-24D
A2908-08	A2908-07MS
A2908-09	A2908-07MSD
A2908-10	C915208-OS-GW-MW-24S
A2908-11	FIELDDUPLICATE
A2908-12	TRIPBLANK

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : Mildred V Reyes

Mildred V. Reyes
I am approving this document
2009.06.14 17:11:37 -04'00'

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CHEMTECH

CASE NARRATIVE

Malcolm Pirnie
Project Name: 275 Franklin Street
Project # N/A
Chemtech Project # A2908

A. Number of Samples and Date of Receipt:
12 Water samples were received on 5/28/09.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA G were done using GC column RTX-VMS which is 20 meters, 0.18 ID, 1.0 df, Restek Cat. #49914. The Trap was supplied by OI Analytical, OI #10 Trap , OI Eclipse 4660 Concentrator.The analysis performed on instrument MSVOA D were done using GC column RTX-VMS which is 20 meters, 0.18 ID, 1.0 df, Restek Cat. #49914. The Trap was supplied by OI Analytical, OI #10 Trap , OI Eclipse 4660 Concentrator.
The analysis of TCL Volatiles + 10 was based on method 8260.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements.
The RPD recoveries met criteria except for Acetone.
The Blank Spike met requirements for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Continuing Calibration met the requirements except for Tetrachloroethene and 1,1-Dichloroethene.
The Tuning criteria met requirements.
Samples C915208-OS-GW-MW-23S, C915208-OS-GW-MW-24S and FIELDDUPLICATE were diluted due to high concentrations.

E. Additional Comments:
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature M Mildred V Reyes Mildred V. Reyes
I am approving this document
2009.06.14 17:11:16 -04'00'

CHEMTECH

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C915208-OS-GW-MW-21S

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2908 SAS No.: A2908 SDG No.: A2908

Matrix (soil/water): WATER Lab Sample ID: A2908-01

Sample wt/vol: 5 (g/mL) ml Lab File ID: VG019212.D

Level: (low/med) Date Received: 05/28/09

% Moisture: not dec. 100 Date Analyzed: 06/03/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
76-13-1	1,1,2-Trichlorotrifluoroethane	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
1634-04-4	Methyl tert-butyl Ether	1	U
79-20-9	Methyl Acetate	1	U
75-09-2	Methylene Chloride	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
110-82-7	Cyclohexane	1	U
78-93-3	2-Butanone	5	U
56-23-5	Carbon Tetrachloride	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
67-66-3	Chloroform	0.75	J
71-55-6	1,1,1-Trichloroethane	1	U
108-87-2	Methylcyclohexane	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U

CHEMTECH

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C915208-OS-GW-MW-21S

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2908 SAS No.: A2908 SDG No.: A2908

Matrix (soil/water): WATER Lab Sample ID: A2908-01

Sample wt/vol: 5 (g/mL) ml Lab File ID: VG019212.D

Level: (low/med) Date Received: 05/28/09

% Moisture: not dec. 100 Date Analyzed: 06/03/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
108-10-1	4-Methyl-2-Pentanone	5	U
108-88-3	Toluene	1	U
10061-02-6	t-1,3-Dichloropropene	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
127-18-4	Tetrachloroethene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethyl Benzene	1	U
179601-23-1	m/p-Xylenes	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-Chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C915208-OS-GW-MW-21I

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2908 SAS No.: A2908 SDG No.: A2908

Matrix (soil/water): WATER Lab Sample ID: A2908-02

Sample wt/vol: 5 (g/mL) ml Lab File ID: VG019213.D

Level: (low/med) Date Received: 05/28/09

% Moisture: not dec. 100 Date Analyzed: 06/03/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
76-13-1	1,1,2-Trichlorotrifluoroethane	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
1634-04-4	Methyl tert-butyl Ether	1	U
79-20-9	Methyl Acetate	1	U
75-09-2	Methylene Chloride	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
110-82-7	Cyclohexane	1	U
78-93-3	2-Butanone	5	U
56-23-5	Carbon Tetrachloride	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1.4	
71-55-6	1,1,1-Trichloroethane	1	U
108-87-2	Methylcyclohexane	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
108-88-3	Toluene	1	U

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C915208-OS-GW-MW-21I

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2908 SAS No.: A2908 SDG No.: A2908

Matrix (soil/water): WATER Lab Sample ID: A2908-02

Sample wt/vol: 5 (g/mL) ml Lab File ID: VG019213.D

Level: (low/med) Date Received: 05/28/09

% Moisture: not dec. 100 Date Analyzed: 06/03/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
10061-02-6	t-1,3-Dichloropropene	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
127-18-4	Tetrachloroethene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethyl Benzene	1	U
179601-23-1	m/p-Xylenes	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-Chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C915208-OS-GW-MW-22S

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2908 SAS No.: A2908 SDG No.: A2908

Matrix (soil/water): WATER Lab Sample ID: A2908-03

Sample wt/vol: 5 (g/mL) ml Lab File ID: VG019214.D

Level: (low/med) Date Received: 05/28/09

% Moisture: not dec. 100 Date Analyzed: 06/03/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
76-13-1	1,1,2-Trichlorotrifluoroethane	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
1634-04-4	Methyl tert-butyl Ether	1	U
79-20-9	Methyl Acetate	1	U
75-09-2	Methylene Chloride	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
110-82-7	Cyclohexane	1	U
78-93-3	2-Butanone	5	U
56-23-5	Carbon Tetrachloride	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
67-66-3	Chloroform	0.55	J
71-55-6	1,1,1-Trichloroethane	1	U
108-87-2	Methylcyclohexane	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
108-88-3	Toluene	1	U

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C915208-OS-GW-MW-22S

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2908 SAS No.: A2908 SDG No.: A2908

Matrix (soil/water): WATER Lab Sample ID: A2908-03

Sample wt/vol: 5 (g/mL) ml Lab File ID: VG019214.D

Level: (low/med) Date Received: 05/28/09

% Moisture: not dec. 100 Date Analyzed: 06/03/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
10061-02-6	t-1,3-Dichloropropene	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
127-18-4	Tetrachloroethene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethyl Benzene	1	U
179601-23-1	m/p-Xylenes	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-Chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C915208-OS-GW-MW-22I

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2908 SAS No.: A2908 SDG No.: A2908

Matrix (soil/water): WATER Lab Sample ID: A2908-04

Sample wt/vol: 5 (g/mL) ml Lab File ID: VG019215.D

Level: (low/med) Date Received: 05/28/09

% Moisture: not dec. 100 Date Analyzed: 06/03/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
76-13-1	1,1,2-Trichlorotrifluoroethane	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
1634-04-4	Methyl tert-butyl Ether	1	U
79-20-9	Methyl Acetate	1	U
75-09-2	Methylene Chloride	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
110-82-7	Cyclohexane	1	U
78-93-3	2-Butanone	5	U
56-23-5	Carbon Tetrachloride	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
67-66-3	Chloroform	0.92	J
71-55-6	1,1,1-Trichloroethane	1	U
108-87-2	Methylcyclohexane	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
108-88-3	Toluene	1	U

CHEMTECH

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C915208-OS-GW-MW-22I

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2908 SAS No.: A2908 SDG No.: A2908

Matrix (soil/water): WATER Lab Sample ID: A2908-04

Sample wt/vol: 5 (g/mL) ml Lab File ID: VG019215.D

Level: (low/med) Date Received: 05/28/09

% Moisture: not dec. 100 Date Analyzed: 06/03/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
10061-02-6	t-1,3-Dichloropropene	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
127-18-4	Tetrachloroethene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethyl Benzene	1	U
179601-23-1	m/p-Xylenes	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-Chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

CHEMTECH

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C915208-OS-GW-MW-23S

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2908 SAS No.: A2908 SDG No.: A2908

Matrix (soil/water): WATER Lab Sample ID: A2908-05

Sample wt/vol: 5 (g/mL) ml Lab File ID: VG019216.D

Level: (low/med) Date Received: 05/28/09

% Moisture: not dec. 100 Date Analyzed: 06/03/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
76-13-1	1,1,2-Trichlorotrifluoroethane	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
1634-04-4	Methyl tert-butyl Ether	1	U
79-20-9	Methyl Acetate	1	U
75-09-2	Methylene Chloride	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
110-82-7	Cyclohexane	1	U
78-93-3	2-Butanone	5	U
56-23-5	Carbon Tetrachloride	1	U
156-59-2	cis-1,2-Dichloroethene	47	
67-66-3	Chloroform	0.64	J
71-55-6	1,1,1-Trichloroethane	1	U
108-87-2	Methylcyclohexane	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	3.6	
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
108-88-3	Toluene	1	U

CHEMTECH

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C915208-OS-GW-MW-23S

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2908 SAS No.: A2908 SDG No.: A2908

Matrix (soil/water): WATER Lab Sample ID: A2908-05

Sample wt/vol: 5 (g/mL) ml Lab File ID: VG019216.D

Level: (low/med) Date Received: 05/28/09

% Moisture: not dec. 100 Date Analyzed: 06/03/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
10061-02-6	t-1,3-Dichloropropene	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
127-18-4	Tetrachloroethene	620	E
108-90-7	Chlorobenzene	1	U
100-41-4	Ethyl Benzene	1	U
179601-23-1	m/p-Xylenes	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-Chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

CHEMTECH

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C915208-OS-GW-MW-23S

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2908 SAS No.: A2908 SDG No.: A2908

Matrix (soil/water): WATER Lab Sample ID: A2908-05DL

Sample wt/vol: 5 (g/mL) ml Lab File ID: VG019259.D

Level: (low/med) Date Received: 05/28/09

% Moisture: not dec. 100 Date Analyzed: 06/04/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 20

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	20	U
74-87-3	Chloromethane	20	U
75-01-4	Vinyl Chloride	20	U
74-83-9	Bromomethane	20	U
75-00-3	Chloroethane	20	U
75-69-4	Trichlorofluoromethane	20	U
76-13-1	1,1,2-Trichlorotrifluoroethane	20	U
75-35-4	1,1-Dichloroethene	20	U
67-64-1	Acetone	100	U
75-15-0	Carbon Disulfide	20	U
1634-04-4	Methyl tert-butyl Ether	20	U
79-20-9	Methyl Acetate	20	U
75-09-2	Methylene Chloride	20	U
156-60-5	trans-1,2-Dichloroethene	20	U
75-34-3	1,1-Dichloroethane	20	U
110-82-7	Cyclohexane	20	U
78-93-3	2-Butanone	100	U
56-23-5	Carbon Tetrachloride	20	U
156-59-2	cis-1,2-Dichloroethene	28	D
67-66-3	Chloroform	20	U
71-55-6	1,1,1-Trichloroethane	20	U
108-87-2	Methylcyclohexane	20	U
71-43-2	Benzene	20	U
107-06-2	1,2-Dichloroethane	20	U
79-01-6	Trichloroethene	20	U
78-87-5	1,2-Dichloropropane	20	U
75-27-4	Bromodichloromethane	20	U
108-10-1	4-Methyl-2-Pentanone	100	U
108-88-3	Toluene	20	U

CHEMTECH

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C915208-OS-GW-MW-23S

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2908 SAS No.: A2908 SDG No.: A2908

Matrix (soil/water): WATER Lab Sample ID: A2908-05DL

Sample wt/vol: 5 (g/mL) ml Lab File ID: VG019259.D

Level: (low/med) Date Received: 05/28/09

% Moisture: not dec. 100 Date Analyzed: 06/04/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 20

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
10061-02-6	t-1,3-Dichloropropene	20	U
10061-01-5	cis-1,3-Dichloropropene	20	U
79-00-5	1,1,2-Trichloroethane	20	U
591-78-6	2-Hexanone	100	U
124-48-1	Dibromochloromethane	20	U
106-93-4	1,2-Dibromoethane	20	U
127-18-4	Tetrachloroethene	560	D
108-90-7	Chlorobenzene	20	U
100-41-4	Ethyl Benzene	20	U
179601-23-1	m/p-Xylenes	40	U
95-47-6	o-Xylene	20	U
100-42-5	Styrene	20	U
75-25-2	Bromoform	20	U
98-82-8	Isopropylbenzene	20	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U
95-50-1	1,2-Dichlorobenzene	20	U
96-12-8	1,2-Dibromo-3-Chloropropane	20	U
120-82-1	1,2,4-Trichlorobenzene	20	U

CHEMTECH

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C915208-OS-GW-MW-23I

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2908 SAS No.: A2908 SDG No.: A2908

Matrix (soil/water): WATER Lab Sample ID: A2908-06

Sample wt/vol: 5 (g/mL) ml Lab File ID: VD024421.D

Level: (low/med) Date Received: 05/28/09

% Moisture: not dec. 100 Date Analyzed: 06/04/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
76-13-1	1,1,2-Trichlorotrifluoroethane	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
1634-04-4	Methyl tert-butyl Ether	1	U
79-20-9	Methyl Acetate	1	U
75-09-2	Methylene Chloride	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
110-82-7	Cyclohexane	1	U
78-93-3	2-Butanone	5	U
56-23-5	Carbon Tetrachloride	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
67-66-3	Chloroform	0.66	J
71-55-6	1,1,1-Trichloroethane	1	U
108-87-2	Methylcyclohexane	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
108-88-3	Toluene	1	U

CHEMTECH

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C915208-OS-GW-MW-23I

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2908 SAS No.: A2908 SDG No.: A2908

Matrix (soil/water): WATER Lab Sample ID: A2908-06

Sample wt/vol: 5 (g/mL) ml Lab File ID: VD024421.D

Level: (low/med) Date Received: 05/28/09

% Moisture: not dec. 100 Date Analyzed: 06/04/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
10061-02-6	t-1,3-Dichloropropene	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
127-18-4	Tetrachloroethene	3.4	
108-90-7	Chlorobenzene	1	U
100-41-4	Ethyl Benzene	1	U
179601-23-1	m/p-Xylenes	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-Chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

CHEMTECH

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C915208-OS-GW-MW-24I

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2908 SAS No.: A2908 SDG No.: A2908

Matrix (soil/water): WATER Lab Sample ID: A2908-07

Sample wt/vol: 5 (g/mL) ml Lab File ID: VG019234.D

Level: (low/med) Date Received: 05/28/09

% Moisture: not dec. 100 Date Analyzed: 06/04/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
76-13-1	1,1,2-Trichlorotrifluoroethane	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
1634-04-4	Methyl tert-butyl Ether	1	U
79-20-9	Methyl Acetate	1	U
75-09-2	Methylene Chloride	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
110-82-7	Cyclohexane	1	U
78-93-3	2-Butanone	5	U
56-23-5	Carbon Tetrachloride	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
108-87-2	Methylcyclohexane	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
108-88-3	Toluene	1	U

CHEMTECH

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C915208-OS-GW-MW-24I

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2908 SAS No.: A2908 SDG No.: A2908

Matrix (soil/water): WATER Lab Sample ID: A2908-07

Sample wt/vol: 5 (g/mL) ml Lab File ID: VG019234.D

Level: (low/med) Date Received: 05/28/09

% Moisture: not dec. 100 Date Analyzed: 06/04/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
10061-02-6	t-1,3-Dichloropropene	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
127-18-4	Tetrachloroethene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethyl Benzene	1	U
179601-23-1	m/p-Xylenes	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-Chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

CHEMTECH

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C915208-OS-GW-MW-24S

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2908 SAS No.: A2908 SDG No.: A2908

Matrix (soil/water): WATER Lab Sample ID: A2908-10

Sample wt/vol: 5 (g/mL) ml Lab File ID: VG019312.D

Level: (low/med) Date Received: 05/28/09

% Moisture: not dec. 100 Date Analyzed: 06/05/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
76-13-1	1,1,2-Trichlorotrifluoroethane	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
1634-04-4	Methyl tert-butyl Ether	1	U
79-20-9	Methyl Acetate	1	U
75-09-2	Methylene Chloride	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
110-82-7	Cyclohexane	1	U
78-93-3	2-Butanone	5	U
56-23-5	Carbon Tetrachloride	1	U
156-59-2	cis-1,2-Dichloroethene	5.8	
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
108-87-2	Methylcyclohexane	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	35	
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
108-88-3	Toluene	1	U

CHEMTECH

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C915208-OS-GW-MW-24S

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2908 SAS No.: A2908 SDG No.: A2908

Matrix (soil/water): WATER Lab Sample ID: A2908-10

Sample wt/vol: 5 (g/mL) ml Lab File ID: VG019312.D

Level: (low/med) Date Received: 05/28/09

% Moisture: not dec. 100 Date Analyzed: 06/05/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		Q
10061-02-6	t-1,3-Dichloropropene	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
127-18-4	Tetrachloroethene	250	E
108-90-7	Chlorobenzene	1	U
100-41-4	Ethyl Benzene	1	U
179601-23-1	m/p-Xylenes	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-Chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

CHEMTECH

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C915208-OS-GW-MW-24S

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2908 SAS No.: A2908 SDG No.: A2908

Matrix (soil/water): WATER Lab Sample ID: A2908-10DL

Sample wt/vol: 5 (g/mL) ml Lab File ID: VG019313.D

Level: (low/med) Date Received: 05/28/09

% Moisture: not dec. 100 Date Analyzed: 06/05/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 5

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
76-13-1	1,1,2-Trichlorotrifluoroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	25	U
75-15-0	Carbon Disulfide	5	U
1634-04-4	Methyl tert-butyl Ether	5	U
79-20-9	Methyl Acetate	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
110-82-7	Cyclohexane	5	U
78-93-3	2-Butanone	25	U
56-23-5	Carbon Tetrachloride	5	U
156-59-2	cis-1,2-Dichloroethene	3.6	JD
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
108-87-2	Methylcyclohexane	5	U
71-43-2	Benzene	5	U
107-06-2	1,2-Dichloroethane	5	U
79-01-6	Trichloroethene	29	D
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
108-10-1	4-Methyl-2-Pentanone	25	U
108-88-3	Toluene	5	U

CHEMTECH

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

C915208-OS-GW-MW-24S

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2908 SAS No.: A2908 SDG No.: A2908

Matrix (soil/water): WATER Lab Sample ID: A2908-10DL

Sample wt/vol: 5 (g/mL) ml Lab File ID: VG019313.D

Level: (low/med) Date Received: 05/28/09

% Moisture: not dec. 100 Date Analyzed: 06/05/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 5

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
10061-02-6	t-1,3-Dichloropropene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
591-78-6	2-Hexanone	25	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
127-18-4	Tetrachloroethene	180	D
108-90-7	Chlorobenzene	5	U
100-41-4	Ethyl Benzene	5	U
179601-23-1	m/p-Xylenes	10	U
95-47-6	o-Xylene	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

CHEMTECH

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FIELDDUPLICATE

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2908 SAS No.: A2908 SDG No.: A2908

Matrix (soil/water): WATER Lab Sample ID: A2908-11

Sample wt/vol: 5 (g/mL) ml Lab File ID: VG019233.D

Level: (low/med) Date Received: 05/28/09

% Moisture: not dec. 100 Date Analyzed: 06/04/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
76-13-1	1,1,2-Trichlorotrifluoroethane	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
1634-04-4	Methyl tert-butyl Ether	1	U
79-20-9	Methyl Acetate	1	U
75-09-2	Methylene Chloride	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
110-82-7	Cyclohexane	1	U
78-93-3	2-Butanone	5	U
56-23-5	Carbon Tetrachloride	1	U
156-59-2	cis-1,2-Dichloroethene	4.7	
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
108-87-2	Methylcyclohexane	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	14	
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
108-88-3	Toluene	1	U

CHEMTECH

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FIELDDUPLICATE

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2908 SAS No.: A2908 SDG No.: A2908

Matrix (soil/water): WATER Lab Sample ID: A2908-11

Sample wt/vol: 5 (g/mL) ml Lab File ID: VG019233.D

Level: (low/med) Date Received: 05/28/09

% Moisture: not dec. 100 Date Analyzed: 06/04/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

(ug/L or ug/Kg) ug/L

CAS NO.	COMPOUND		Q
10061-02-6	t-1,3-Dichloropropene	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
127-18-4	Tetrachloroethene	210	E
108-90-7	Chlorobenzene	1	U
100-41-4	Ethyl Benzene	1	U
179601-23-1	m/p-Xylenes	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-Chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

CHEMTECH

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FIELDDUPLICATEDL

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2908 SAS No.: A2908 SDG No.: A2908

Matrix (soil/water): WATER Lab Sample ID: A2908-11DL

Sample wt/vol: 5 (g/mL) ml Lab File ID: VG019260.D

Level: (low/med) Date Received: 05/28/09

% Moisture: not dec. 100 Date Analyzed: 06/04/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 5

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
76-13-1	1,1,2-Trichlorotrifluoroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	25	U
75-15-0	Carbon Disulfide	5	U
1634-04-4	Methyl tert-butyl Ether	5	U
79-20-9	Methyl Acetate	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
110-82-7	Cyclohexane	5	U
78-93-3	2-Butanone	25	U
56-23-5	Carbon Tetrachloride	5	U
156-59-2	cis-1,2-Dichloroethene	3.5	JD
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
108-87-2	Methylcyclohexane	5	U
71-43-2	Benzene	5	U
107-06-2	1,2-Dichloroethane	5	U
79-01-6	Trichloroethene	12	D
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
108-10-1	4-Methyl-2-Pentanone	25	U
108-88-3	Toluene	5	U

CHEMTECH

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FIELDDUPLICATEDL

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2908 SAS No.: A2908 SDG No.: A2908

Matrix (soil/water): WATER Lab Sample ID: A2908-11DL

Sample wt/vol: 5 (g/mL) ml Lab File ID: VG019260.D

Level: (low/med) Date Received: 05/28/09

% Moisture: not dec. 100 Date Analyzed: 06/04/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 5

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
10061-02-6	t-1,3-Dichloropropene	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
591-78-6	2-Hexanone	25	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
127-18-4	Tetrachloroethene	200	D
108-90-7	Chlorobenzene	5	U
100-41-4	Ethyl Benzene	5	U
179601-23-1	m/p-Xylenes	10	U
95-47-6	o-Xylene	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-Chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U

CHEMTECH

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIPBLANK

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2908 SAS No.: A2908 SDG No.: A2908

Matrix (soil/water): WATER Lab Sample ID: A2908-12

Sample wt/vol: 5 (g/mL) ml Lab File ID: VG019227.D

Level: (low/med) Date Received: 05/28/09

% Moisture: not dec. 100 Date Analyzed: 06/04/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
76-13-1	1,1,2-Trichlorotrifluoroethane	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
1634-04-4	Methyl tert-butyl Ether	1	U
79-20-9	Methyl Acetate	1	U
75-09-2	Methylene Chloride	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
110-82-7	Cyclohexane	1	U
78-93-3	2-Butanone	5	U
56-23-5	Carbon Tetrachloride	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
108-87-2	Methylcyclohexane	1	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
108-10-1	4-Methyl-2-Pentanone	5	U
108-88-3	Toluene	1	U

CHEMTECH

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIPBLANK

Lab Name: Chemtech Contract: Malcolm Pirnie

Lab Code: CHEM Case No.: A2908 SAS No.: A2908 SDG No.: A2908

Matrix (soil/water): WATER Lab Sample ID: A2908-12

Sample wt/vol: 5 (g/mL) ml Lab File ID: VG019227.D

Level: (low/med) Date Received: 05/28/09

% Moisture: not dec. 100 Date Analyzed: 06/04/09

GC Column: RTX-VMS ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Volume: (uL)

Concentration Units:

CAS NO.	COMPOUND	(ug/L or ug/Kg) ug/L	Q
10061-02-6	t-1,3-Dichloropropene	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
127-18-4	Tetrachloroethene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethyl Benzene	1	U
179601-23-1	m/p-Xylenes	2	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-Chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **Malcolm Pirnie, Incorporated**
Client Sample ID: **275 Franklin OA** CAS Project ID: P0801622
Client Project ID: **275 Franklin St. / 0266 377** CAS Sample ID: P0801622-001

Test Code: EPA TO-15 Date Collected: 5/29/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 5/30/08
Analyst: Wida Ang Date Analyzed: 6/4/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC01303

Initial Pressure (psig): -2.9 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.54

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	0.77	ND	0.30	
75-35-4	1,1-Dichloroethene	ND	0.77	ND	0.19	
75-09-2	Methylene Chloride	ND	0.77	ND	0.22	
156-60-5	trans-1,2-Dichloroethene	ND	0.77	ND	0.19	
156-59-2	cis-1,2-Dichloroethene	ND	0.77	ND	0.19	
71-55-6	1,1,1-Trichloroethane	ND	0.77	ND	0.14	
71-43-2	Benzene	ND	0.77	ND	0.24	
79-01-6	Trichloroethene	ND	0.15	ND	0.029	
108-88-3	Toluene	**1.1**	0.77	**0.30**	0.20	
127-18-4	Tetrachloroethene	ND	0.77	ND	0.11	
100-41-4	Ethylbenzene	ND	0.77	ND	0.18	
179601-23-1	m,p-Xylenes	ND	0.77	ND	0.18	
95-47-6	o-Xylene	ND	0.77	ND	0.18	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By:_____ Date:_____

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **Malcolm Pirnie, Incorporated**
Client Sample ID: **275 Franklin FA** CAS Project ID: P0801622
Client Project ID: **275 Franklin St. / 0266 377** CAS Sample ID: P0801622-002

Test Code: EPA TO-15 Date Collected: 5/29/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 5/30/08
Analyst: Wida Ang Date Analyzed: 6/4/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 0.40 Liter(s)
Test Notes:
Container ID: AC00902

Initial Pressure (psig): -2.8 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.53

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	1.9	ND	0.75	
75-35-4	1,1-Dichloroethene	ND	1.9	ND	0.48	
75-09-2	Methylene Chloride	**28**	1.9	**8.0**	0.55	
156-60-5	trans-1,2-Dichloroethene	ND	1.9	ND	0.48	
156-59-2	cis-1,2-Dichloroethene	ND	1.9	ND	0.48	
71-55-6	1,1,1-Trichloroethane	ND	1.9	ND	0.35	
71-43-2	Benzene	**2.6**	1.9	**0.82**	0.60	
79-01-6	Trichloroethene	**1.1**	0.38	**0.21**	0.071	
108-88-3	Toluene	**29**	1.9	**7.7**	0.51	
127-18-4	Tetrachloroethene	**93**	1.9	**14**	0.28	
100-41-4	Ethylbenzene	**16**	1.9	**3.7**	0.44	
179601-23-1	m,p-Xylenes	**47**	1.9	**11**	0.44	
95-47-6	o-Xylene	**110**	1.9	**24**	0.44	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By:_____ Date:_____

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **Malcolm Pirnie, Incorporated**
Client Sample ID: **275 Franklin CS** CAS Project ID: P0801622
Client Project ID: **275 Franklin St. / 0266 377** CAS Sample ID: P0801622-003

Test Code: EPA TO-15 Date Collected: 5/29/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 5/30/08
Analyst: Wida Ang Date Analyzed: 6/4/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC01418

Initial Pressure (psig): -2.6 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.51

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	0.76	ND	0.30	
75-35-4	1,1-Dichloroethene	ND	0.76	ND	0.19	
75-09-2	Methylene Chloride	ND	0.76	ND	0.22	
156-60-5	trans-1,2-Dichloroethene	ND	0.76	ND	0.19	
156-59-2	cis-1,2-Dichloroethene	ND	0.76	ND	0.19	
71-55-6	1,1,1-Trichloroethane	ND	0.76	ND	0.14	
71-43-2	Benzene	ND	0.76	ND	0.24	
79-01-6	Trichloroethene	**0.26**	0.15	**0.048**	0.028	
108-88-3	Toluene	**0.97**	0.76	**0.26**	0.20	
127-18-4	Tetrachloroethene	**20**	0.76	**2.9**	0.11	
100-41-4	Ethylbenzene	ND	0.76	ND	0.17	
179601-23-1	m,p-Xylenes	**1.1**	0.76	**0.24**	0.17	
95-47-6	o-Xylene	**1.6**	0.76	**0.37**	0.17	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By:_____ Date:_____

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **Malcolm Pirnie, Incorporated**
Client Sample ID: **275 Franklin Dup** CAS Project ID: P0801622
Client Project ID: **275 Franklin St. / 0266 377** CAS Sample ID: P0801622-004

Test Code: EPA TO-15 Date Collected: 5/29/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 5/30/08
Analyst: Wida Ang Date Analyzed: 6/4/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC00686

Initial Pressure (psig): -2.5 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.49

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	0.75	ND	0.29	
75-35-4	1,1-Dichloroethene	ND	0.75	ND	0.19	
75-09-2	Methylene Chloride	ND	0.75	ND	0.21	
156-60-5	trans-1,2-Dichloroethene	ND	0.75	ND	0.19	
156-59-2	cis-1,2-Dichloroethene	ND	0.75	ND	0.19	
71-55-6	1,1,1-Trichloroethane	ND	0.75	ND	0.14	
71-43-2	Benzene	ND	0.75	ND	0.23	
79-01-6	Trichloroethene	**0.25**	0.15	**0.047**	0.028	
108-88-3	Toluene	**1.0**	0.75	**0.27**	0.20	
127-18-4	Tetrachloroethene	**19**	0.75	**2.8**	0.11	
100-41-4	Ethylbenzene	ND	0.75	ND	0.17	
179601-23-1	m,p-Xylenes	**1.4**	0.75	**0.32**	0.17	
95-47-6	o-Xylene	**1.8**	0.75	**0.42**	0.17	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By:_____ Date:_____

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD TO-15
Reported: 12/01/08

Malcolm Pirnie, Inc.
Project Reference: FRANKLIN PROJECT #0266-377
Client Sample ID : 267 FRANKLIN SS

Date Sampled : 10/29/08 11:20 **Order #:** 1150195 **Sample Matrix:** AIR
Date Received: 10/30/08 **Submission #:** R2846926 **Analytical Run** 170221

DATE ANALYZED : 11/15/08
ANALYTICAL DILUTION: 5.00
CAN DILUTION : 1.81 Pi= -8.7 Pf= 8.4

ANALYTE	MRL UG/M3	RESULT UG/M3	MRL PPBv	RESULT PPBv
BENZENE	0.35	2.3 J	0.11	0.72 J
1,1-DICHLOROETHENE	0.44	3.9 U	0.11	1.00 U
TRANS-1,2-DICHLOROETHENE	0.44	3.9 U	0.11	1.00 U
CIS-1,2-DICHLOROETHENE	0.44	0.81 J	0.11	0.20 J
ETHYLBENZENE	0.95	2.1 J	0.22	0.49 J
METHYLENE CHLORIDE	0.38	3.5 U	0.11	1.00 U
TETRACHLOROETHENE	0.15	340	0.022	50
TOLUENE	0.41	42	0.11	11
1,1,1-TRICHLOROETHANE	0.60	5.4 U	0.11	1.00 U
TRICHLOROETHENE	0.12	17	0.022	3.1
VINYL CHLORIDE	0.28	2.5 U	0.11	1.00 U
O-XYLENE	0.95	1.7 J	0.22	0.40 J
M+P-XYLENE	1.9	6.2 J	0.44	1.4 J

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	101	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD TO-15
Reported: 12/01/08

Malcolm Pirnie, Inc.
Project Reference: FRANKLIN PROJECT #0266-377
Client Sample ID : 267 FRANKLIN BA1

Date Sampled : 10/29/08 11:30 **Order #:** 1150196 **Sample Matrix:** AIR
Date Received: 10/30/08 **Submission #:** R2846926 **Analytical Run** 170221

DATE ANALYZED : 11/15/08
ANALYTICAL DILUTION: 20.00
CAN DILUTION : 1.72 Pi= -8.1 Pf= 7.5

ANALYTE	MRL UG/M3	RESULT UG/M3	MRL PPBv	RESULT PPBv
BENZENE	0.35	1.1 J	0.11	0.35 J
1,1-DICHLOROETHENE	0.44	15 U	0.11	3.8 U
TRANS-1,2-DICHLOROETHENE	0.44	15 U	0.11	3.8 U
CIS-1,2-DICHLOROETHENE	0.44	20	0.11	5.1
ETHYLBENZENE	0.95	33 U	0.22	7.6 U
METHYLENE CHLORIDE	0.38	1.5 JB	0.11	0.44 JB
TETRACHLOROETHENE	0.15	1200	0.022	170
TOLUENE	0.41	4.1 J	0.11	1.1 J
1,1,1-TRICHLOROETHANE	0.60	21 U	0.11	3.8 U
TRICHLOROETHENE	0.12	13	0.022	2.5
VINYL CHLORIDE	0.28	9.7 U	0.11	3.8 U
O-XYLENE	0.95	33 U	0.22	7.6 U
M+P-XYLENE	1.9	1.8 J	0.44	0.41 J

SURROGATE RECOVERIES	QC LIMITS	
BROMOFLUOROBENZENE	(70 - 130 %)	99 %

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD TO-15
Reported: 12/01/08

Malcolm Pirnie, Inc.
Project Reference: FRANKLIN PROJECT #0266-377
Client Sample ID : 267 FRANKLIN BA2

Date Sampled : 10/29/08 11:44 **Order #:** 1150197 **Sample Matrix:** AIR
Date Received: 10/30/08 **Submission #:** R2846926 **Analytical Run** 170221

DATE ANALYZED : 11/15/08
ANALYTICAL DILUTION: 10.00
CAN DILUTION : 1.60 Pi= -6.5 Pf= 7.6

ANALYTE	MRL UG/M3	RESULT UG/M3	MRL PPBv	RESULT PPBv
BENZENE	0.35	0.76 J	0.11	0.24 J
1,1-DICHLOROETHENE	0.44	7.0 U	0.11	1.8 U
TRANS-1,2-DICHLOROETHENE	0.44	7.0 U	0.11	1.8 U
CIS-1,2-DICHLOROETHENE	0.44	12	0.11	3.0
ETHYLBENZENE	0.95	15 U	0.22	3.5 U
METHYLENE CHLORIDE	0.38	6.1 U	0.11	1.8 U
TETRACHLOROETHENE	0.15	670	0.022	99
TOLUENE	0.41	1.8 J	0.11	0.49 J
1,1,1-TRICHLOROETHANE	0.60	9.6 U	0.11	1.8 U
TRICHLOROETHENE	0.12	7.0	0.022	1.3
VINYL CHLORIDE	0.28	4.5 U	0.11	1.8 U
O-XYLENE	0.95	15 U	0.22	3.5 U
M+P-XYLENE	1.9	0.87 J	0.44	0.20 J

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	97	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD TO-15
Reported: 12/01/08

Malcolm Pirnie, Inc.
Project Reference: FRANKLIN PROJECT #0266-377
Client Sample ID : 267 FRANKLIN BA3

Date Sampled : 10/29/08 11:40 **Order #:** 1150198 **Sample Matrix:** AIR
Date Received: 10/30/08 **Submission #:** R2846926 **Analytical Run** 170221

DATE ANALYZED : 11/15/08
ANALYTICAL DILUTION: 10.00
CAN DILUTION : 1.68 Pi= -7.7 Pf= 7.4

ANALYTE	MRL UG/M3	RESULT UG/M3	MRL PPBv	RESULT PPBv
BENZENE	0.35	0.55 J	0.11	0.17 J
1,1-DICHLOROETHENE	0.44	7.3 U	0.11	1.8 U
TRANS-1,2-DICHLOROETHENE	0.44	7.3 U	0.11	1.8 U
CIS-1,2-DICHLOROETHENE	0.44	18	0.11	4.4
ETHYLBENZENE	0.95	16 U	0.22	3.7 U
METHYLENE CHLORIDE	0.38	0.59 JB	0.11	0.17 JB
TETRACHLOROETHENE	0.15	900	0.022	130
TOLUENE	0.41	1.6 J	0.11	0.43 J
1,1,1-TRICHLOROETHANE	0.60	10 U	0.11	1.8 U
TRICHLOROETHENE	0.12	11	0.022	2.0
VINYL CHLORIDE	0.28	4.7 U	0.11	1.8 U
O-XYLENE	0.95	16 U	0.22	3.7 U
M+P-XYLENE	1.9	32 U	0.44	7.4 U

SURROGATE RECOVERIES	QC LIMITS	
BROMOFLUOROBENZENE	(70 - 130 %)	96 %

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD TO-15
Reported: 12/01/08

Malcolm Pirnie, Inc.
Project Reference: FRANKLIN PROJECT #0266-377
Client Sample ID : 267 FRANKLIN OA

Date Sampled : 10/29/08 11:50 **Order #:** 1150201 **Sample Matrix:** AIR
Date Received: 10/30/08 **Submission #:** R2846926 **Analytical Run** 170221

DATE ANALYZED : 11/15/08
ANALYTICAL DILUTION: 1.00
CAN DILUTION : 1.60 Pi= -6.5 Pf= 7.5

ANALYTE	MRL UG/M3	RESULT UG/M3	MRL PPBv	RESULT PPBv
BENZENE	0.35	0.46 J	0.11	0.15 J
1,1-DICHLOROETHENE	0.44	0.70 U	0.11	0.18 U
TRANS-1,2-DICHLOROETHENE	0.44	0.70 U	0.11	0.18 U
CIS-1,2-DICHLOROETHENE	0.44	0.70 U	0.11	0.18 U
ETHYLBENZENE	0.95	0.26 J	0.22	0.059 J
METHYLENE CHLORIDE	0.38	0.22 JB	0.11	0.062 JB
TETRACHLOROETHENE	0.15	0.12 J	0.022	0.017 J
TOLUENE	0.41	1.1	0.11	0.29
1,1,1-TRICHLOROETHANE	0.60	0.96 U	0.11	0.18 U
TRICHLOROETHENE	0.12	0.21	0.022	0.039
VINYL CHLORIDE	0.28	0.45 U	0.11	0.18 U
O-XYLENE	0.95	0.65 J	0.22	0.15 J
M+P-XYLENE	1.9	0.98 J	0.44	0.23 J

SURROGATE RECOVERIES	QC LIMITS	
BROMOFLUOROBENZENE	(70 - 130 %)	101 %

Air - Chain of Custody Record & Analytical Service Request

Columbia Analytical Services INC.
An Employee - Owned Company

2655 Park Center Drive, Suite A
Simi Valley, California 93065
Phone (805) 526-7161
Fax (805) 526-7270

Requested Turnaround Time in Business Days (Surcharges) please circle
1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day - Standard

CAS Project No.

Company Name & Address (Reporting Information)
Malcolm Pirnie Inc.
50 fountain Plaza
suite 600 Buffalo NY 14202

Project Name: 275 Franklin st.

Project Number: 0266 377

CAS Contact

Project Manager: John Hilton

P.O. # / Billing Information

Phone: 716-667-0900

Fax:

Email Address for Result Reporting

Sampler (Print & Sign): Dwight Symonds / D. Symonds

Analysis Method and/or Analytes

TO-15

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Sample Type (Air/Tube/ Solid)	Canister ID (Bar Code # - AC, SC, etc.)	Flow Controller (Bar Code - FC #)	Sample Volume					**Comments** e.g. Actual Preservative or specific instructions
275 Franklin OFF		5/29	1030	Air	003493	FC00293	6L	✓				
275 Franklin FA			1035		002659	FC00341		✓				
275 Franklin CS			1040		003754	FC00207		✓				
275 Franklin DUP			—		02235	FC00037		✓				

Report Tier Levels - please select
Tier I - (Results/Default if not specified) ____
Tier II - (Results + QC) ____
Tier III - (Data Validation Package) 10% Surcharge ____
Tier V - (client specified) ____

EDD required Yes / No
Type: _____
EDD Units: _____

Project Requirements (MRLs, QAPP)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
D. Symonds	5/29	1400			
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

Cooler / Blank

Temperature °C

MALCOLM PIRNIE

AIR, SUB-SLAB VAPOR, AND SOIL VAPOR SAMPLING FIELD LOG

PROJECT NAME: Franklin
PROJECT LOCATION: Buffalo
PROJECT NUMBER: 0266377
PERSONNEL: DAS

DATE: 10/28/08
WEATHER: 40° overcast
TEMPERATURE: 36° mostly cloudy
LABORATORY: Columbia Analytical

Sample ID	Outdoor (OA)	Soil Vapor (SV)	Sub-slab vapor (SS)	Crawl Space (CS)	Basement Air (BA)	1st Floor (FA)	Canister Size (1-L or 6-L)	Canister #	Flow controller #	Sample Duration (hours)	Initial Time (military)	Initial Vacuum (in. Hg)	Final Time (military)	Final Vacuum (in. Hg)	Volume of Vapor Purged (cc)	VOCs (ppb) Pre	VOCs (ppb) Post	He Test (ppm) Pre	He Test (ppm) Post
267 Franklin SS			✓				6L	K659	3364163	24	1120	-30	0903	-8.8	120cc	760	3	pass	
267 Franklin BA1					✓		6L	K767	143067	24	1130	-29	0904	-7.9	—	760		—	
267 Franklin BA2					✓		6L	2802	142250	24	1144	-29.5	0905	-7.0		140		—	
267 Franklin BA3					✓		6L	2613	142254	24	1140	-28	0900	-7.2	—	160		—	
267 Franklin OA	✓						6L	K675	146610	24	1150	-29.5	0911	-7.9	—	0		—	

Notes:

sub slab Helium test - Bucket - 95%
PASS Tubing - 50 ppm

Columbia Analytical Services

1 Mustard Street, Suite 250, Rochester, NY 14609-6925
585-288-5380

Flow Controller and Canister Tracking Form

Client / Project Dwight Symonds / Malcolm Pirnie

Sampling Period 6L / 24 hr. **Target Flow** 3.47 (0012)

Flow Controller / Canister Serial Numbers		Controller Gauge "Hg	Reference Gauge "Hg	1 minute leak check "Hg	Flow set point cc/min	Canister Vacuum "Hg	Canister QC File
7321842	K675	26.5	26.5	0.0	3.48	29.4	A5586
7310254	K767	26.5	26.3	0.0	3.47	29.4	A5586
7341556	K659	27.5	26.2	0.0	3.45	29.4	A5586
~~7313583~~		~~26.8~~	~~26.1~~	~~0.0~~			
7310045	2613	25.0	26.0	0.0	3.46	29.4	A5586
7309947	2802	26.5	26.0	0.0	3.46	~~29.6~~ 29.4	A5586
						TW 10/27	

mments: Our sample flow controllers include a vacuum gauge. To avoid damage and inaccurate vacuum readings) NOT EXCEED +5 PSI. Sample flows are set to reach a final vacuum of 5"Hg at the end of the sampling period. ase use the flow controller with the associated canister. To avoid damage to canister valve or flow controller threads NOT USE NON-SWAGELOK nuts or ferrules. Tighten compression fittings 1/8 turn past finger tight. Over tightening l cause leakage and damage threads.

ared By Tom Walton Date 10/27/08

1 Mustard Street, Suite 250 Rochester, NY 14609-6925 (585) 288-5380 (585) 288-8475 fax

Columbia Analytical Services INC.
An Employee - Owned Company

December 3, 2008

Mr. Jim Richert
Malcolm Pirnie Inc.
50 Fountain Plaza
Suite 600
Buffalo, NY 14202

Re: Franklin Project #0266-377
Submission #R2846926

Dear Mr. Richert:

Enclosed is an analytical data report for the above referenced facility. A total of five samples were received by our laboratory on October 30, 2008.

Any problems encountered with this project are addressed in a case narrative section which is presented later in this report.

This report consists of two (2) packages: the sample data package and the sample data summary package. A copy of the summary package has been sent to your attention, and the data package has been sent to Chris Taylor's attention. All data presented in this package has been reviewed prior to report submission. If you should have any questions or concerns, please contact me at (585) 288-5380.

6/15 - spoke w/ Carl
- called CAS lab to verify why/where data package was sent.

Sincerely,
COLUMBIA ANALYTICAL SERVICES

Janice M. Jaeger
Project Chemist

enc.

This report contains a total of 14 pages.

Columbia Analytical Services, Inc.
1 Mustard ST.
Suite 250
Rochester, NY 14609
(585) 288-5380

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Malcolm Pirnie, Inc.
Project Reference: FRANKLIN PROJECT #0266-377
Lab Submission # : R2846926
Contact Person : Janice Jaeger
Phone Number : (585) 288-5380
Reported : 12/01/08

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal.

CASE NARRATIVE

COMPANY: Malcolm Pirnie
Franklin Project #0266-377
SUBMISSION #: R2846926

Malcolm Pirnie samples were collected on 10/29/08 and received at CAS on 10/30/08 in good condition.

VOLATILE ORGANICS

Five air samples were analyzed for a site specific list of Volatiles by method TO-15.

All Tuning criteria were met.

All the initial and continuing calibration criteria were met for all analytes.

All internal standard areas were within QC limits.

All surrogate standard recoveries were within acceptance limits.

All Reference spike recoveries were within limits.

The Laboratory Blanks associated with these analyses were free of contamination except the 11/15/08 blank contained a low level hit for Methylene chloride. All affected data has been flagged with a "B".

All samples were analyzed within recommended holding times.

No other analytical or QC problems were encountered.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the details conditioned above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

CAS ASP/CLP BATCHING FORM / LOGIN SHEET

SDG#: 267 FRANKLIN SS
SUBMISSION R2846926
CLIENT: Malcolm Pirnie, Inc.
CLIENT REP: Janice Jaeger
PROJECT: FRANKLIN PROJECT #0266-37

BATCH COMPLETE: __yes_____
DISKETTE REQUESTED: Y___ N__X__
DATE: 11/3/08
CUSTODY SEAL: PRESENT/ABSENT: P
CHAIN OF CUSTODY: PRESENT/ABSENT: P

DATE REVISED:
DATE DUE: 11/20/08
PROTOCOL: to-15
SHIPPING No.:

CAS JOB #	CLIENT/EPA ID	MATRIX	REQUESTED PARAMETERS	DATE SAMPLED	DATE RECEIVED	pH (SOLIDS)	% SOLIDS	REMARKS SAMPLE CONDITION
1150195	267 FRANKLIN SS	AIR	TO-15	10/29/2008	10/30/2008			
1150196	267 FRANKLIN BA1	AIR	TO-15	10/29/2008	10/30/2008			
1150197	267 FRANKLIN BA2	AIR	TO-15	10/29/2008	10/30/2008			
1150198	267 FRANKLIN BA3	AIR	TO-15	10/29/2008	10/30/2008			
1150201	267 FRANKLIN OA	AIR	TO-15	10/29/2008	10/30/2008			

Columbia Analytical Services™

ORGANIC QUALIFIERS

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.

J - Indicates an estimated value. The flag is used either when estimating a concentration for tentatively identified compounds, or when the data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit and greater than the MDL. This flag is also used for DoD instead of "P" as indicated below.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search.

P - This flag is used for a pesticide/Aroclor target analyte when there is a greater than 40% (25% for CLP) difference for detected concentrations between the two GC columns. The concentration is reported on the Form I and flagged with a "P" ("J" for DoD).

Q - for DoD only – indicates a pesticide/Aroclor target is not confirmed. This flag is used when there is ≥ 100% difference for the detected concentrations between the two GC columns.

C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and ALL concentration values reported on that Form I are flagged with the "D" flag.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

X - As specified in Case Narrative.

* - This flag identifies compounds associated with a quality control parameter which exceeds laboratory limits.

ACCREDITED IN ACCORDANCE WITH nelac

CAS/Rochester Lab ID # for State Certifications[1]

NELAP Accredited
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Illinois ID #200047
Maine ID #NY0032
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved
Nebraska Accredited
Nevada ID # NY-00032
New Jersey ID # NY004
New York ID # 10145
New Hampshire ID # 294100 A/B
Pennsylvania ID# 68-786
Rhode Island ID # 158
West Virginia ID # 292

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com.

Air - Chain of Custody Record & Analytical Service Request

Page 1 of 1

Columbia Analytical Services, Inc.
An Employee - Owned Company
1 Mustard Street, Suite 250
Rochester, New York 14609-6925
Phone (585) 288-5380
Fax (585) 288-8475

Requested Turnaround Time in Business Days From Receipt, please circle
1 Day 2 Day 3 Day 4 Day 5 Day (10 Day-Standard)

CAS Project No.

CAS Contact:

Company Name & Address (Reporting Information)
Malcolm Pirnie

Project Name: Franklin
Project Number: 0266377

Project Manager: Jim Richert

P.O. # / Billing Information

Phone: 716-667-6654
Fax: 716/667-0279

Email Address for Result Reporting: JRichert@pirnie.com

Sampler (Print & Sign): August Symonds / D-Symonds

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID	Flow Controller ID	Sample Final Vacuum	Analysis Method and/or Analytes: TO-15	Comments / Specific Instructions
267 Franklin SS		11/29	1120	K654	3364163	-8.8	X	SUB-SLAB
267 Franklin BA1		11/29	1130	K767	143067	-7.9	X	Basement AIR
267 Franklin BA2		11/29	1144	2802	142250	-7.0	X	"
267 Franklin BA3		11/29	1140	2613	142254	-7.2	X	"
267 Franklin OA		11/29	1150	K625	146810	-7.9	X	Outdoor AIR

Jim Richert 10/29/18

Report Tier Levels - please select
Tier I - (Results/Default if not specified) ____
Tier II (Results + QC) ____
Tier III (CLP Forms Only) ____
Tier IV (Data Validation) ____

EDD required Yes / No
Type: ____ EDD Units: ____

Project Requirements (MRLs, QAPP)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Jim Richert	10/29/18	1110	[illegible]	10/30/18	1035
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

Cooler Receipt And Preservation Check Form

Project/Client________________________ Submission Number R2846926

Cooler received on 10/30/08 by: [illegible] COURIER: CAS UPS FEDEX VELOCITY CLIENT

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did any VOA vials have significant* air bubbles? YES NO N/A
5. Were Ice or Ice packs present? YES NO
6. Where did the bottles originate? CAS/ROC, CLIENT
7. Temperature of cooler(s) upon receipt: 17° 15° 13° 16° 14°

Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes

If No, Explain Below No No No No No

Date/Time Temperatures Taken: 10/30/08 1045

Thermometer ID: 161 / IR GUN#2 / IR GUN#3 Reading From: Temp Blank / Sample Bottle

If out of Temperature, note packing/ice condition, Client Approval to Run Samples:________

PC Secondary Review: ________

Cooler Breakdown: Date : 11/3/08 by: [illegible]

1. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies: ________

pH	Reagent	YES	NO	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO_3								
≤2	H_2SO_4								
Residual Chlorine (-)	For TCN and Phenol			If present, contact PM to add ascorbic acid					
	$Na_2S_2O_3$	-	-						
	Zn Aceta	-	-						
	HCl	*	*						

*Not to be tested before analysis – pH tested and recorded by VOAs or GenChem on a separate worksheet

Yes = All samples OK

No = Samples were preserved at lab as listed

PM OK to Adjust: ________

Bottle lot numbers: ________

Other Comments:

PC Secondary Review: [illegible] 11/5/08 *significant air bubbles are greater than 5-6 mm

H:\SMODOCS\Cooler Receipt 2.doc

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD TO-15
Reported: 12/01/08

Malcolm Pirnie, Inc.
Project Reference: FRANKLIN PROJECT #0266-377
Client Sample ID : 267 FRANKLIN SS

Date Sampled : 10/29/08 11:20 **Order #:** 1150195 **Sample Matrix:** AIR
Date Received: 10/30/08 **Submission #:** R2846926 **Analytical Run** 170221

DATE ANALYZED : 11/15/08
ANALYTICAL DILUTION: 5.00
CAN DILUTION : 1.81 Pi= -8.7 Pf= 8.4

ANALYTE	MRL UG/M3	RESULT UG/M3	MRL PPBv	RESULT PPBv
BENZENE	0.35	2.3 J	0.11	0.72 J
1,1-DICHLOROETHENE	0.44	3.9 U	0.11	1.00 U
TRANS-1,2-DICHLOROETHENE	0.44	3.9 U	0.11	1.00 U
CIS-1,2-DICHLOROETHENE	0.44	0.81 J	0.11	0.20 J
ETHYLBENZENE	0.95	2.1 J	0.22	0.49 J
METHYLENE CHLORIDE	0.38	3.5 U	0.11	1.00 U
TETRACHLOROETHENE	0.15	340	0.022	50
TOLUENE	0.41	42	0.11	11
1,1,1-TRICHLOROETHANE	0.60	5.4 U	0.11	1.00 U
TRICHLOROETHENE	0.12	17	0.022	3.1
VINYL CHLORIDE	0.28	2.5 U	0.11	1.00 U
O-XYLENE	0.95	1.7 J	0.22	0.40 J
M+P-XYLENE	1.9	6.2 J	0.44	1.4 J

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	101	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD TO-15
Reported: 12/01/08

Malcolm Pirnie, Inc.
Project Reference: FRANKLIN PROJECT #0266-377
Client Sample ID : 267 FRANKLIN BA1

Date Sampled : 10/29/08 11:30 **Order #:** 1150196 **Sample Matrix:** AIR
Date Received: 10/30/08 **Submission #:** R2846926 **Analytical Run** 170221

DATE ANALYZED : 11/15/08
ANALYTICAL DILUTION: 20.00
CAN DILUTION : 1.72 Pi= -8.1 Pf= 7.5

ANALYTE	MRL UG/M3	RESULT UG/M3	MRL PPBv	RESULT PPBv
BENZENE	0.35	1.1 J	0.11	0.35 J
1,1-DICHLOROETHENE	0.44	15 U	0.11	3.8 U
TRANS-1,2-DICHLOROETHENE	0.44	15 U	0.11	3.8 U
CIS-1,2-DICHLOROETHENE	0.44	20	0.11	5.1
ETHYLBENZENE	0.95	33 U	0.22	7.6 U
METHYLENE CHLORIDE	0.38	1.5 JB	0.11	0.44 JB
TETRACHLOROETHENE	0.15	1200	0.022	170
TOLUENE	0.41	4.1 J	0.11	1.1 J
1,1,1-TRICHLOROETHANE	0.60	21 U	0.11	3.8 U
TRICHLOROETHENE	0.12	13	0.022	2.5
VINYL CHLORIDE	0.28	9.7 U	0.11	3.8 U
O-XYLENE	0.95	33 U	0.22	7.6 U
M+P-XYLENE	1.9	1.8 J	0.44	0.41 J

SURROGATE RECOVERIES	QC LIMITS	
BROMOFLUOROBENZENE	(70 - 130 %)	99 %

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD TO-15
Reported: 12/01/08

Malcolm Pirnie, Inc.
Project Reference: FRANKLIN PROJECT #0266-377
Client Sample ID : 267 FRANKLIN BA2

Date Sampled : 10/29/08 11:44 **Order #:** 1150197 **Sample Matrix:** AIR
Date Received: 10/30/08 **Submission #:** R2846926 **Analytical Run** 170221

DATE ANALYZED : 11/15/08
ANALYTICAL DILUTION: 10.00
CAN DILUTION : 1.60 Pi= -6.5 Pf= 7.6

ANALYTE	MRL UG/M3	RESULT UG/M3	MRL PPBv	RESULT PPBv
BENZENE	0.35	0.76 J	0.11	0.24 J
1,1-DICHLOROETHENE	0.44	7.0 U	0.11	1.8 U
TRANS-1,2-DICHLOROETHENE	0.44	7.0 U	0.11	1.8 U
CIS-1,2-DICHLOROETHENE	0.44	12	0.11	3.0
ETHYLBENZENE	0.95	15 U	0.22	3.5 U
METHYLENE CHLORIDE	0.38	6.1 U	0.11	1.8 U
TETRACHLOROETHENE	0.15	670	0.022	99
TOLUENE	0.41	1.8 J	0.11	0.49 J
1,1,1-TRICHLOROETHANE	0.60	9.6 U	0.11	1.8 U
TRICHLOROETHENE	0.12	7.0	0.022	1.3
VINYL CHLORIDE	0.28	4.5 U	0.11	1.8 U
O-XYLENE	0.95	15 U	0.22	3.5 U
M+P-XYLENE	1.9	0.87 J	0.44	0.20 J

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	97	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD TO-15
Reported: 12/01/08

Malcolm Pirnie, Inc.
Project Reference: FRANKLIN PROJECT #0266-377
Client Sample ID : 267 FRANKLIN BA3

Date Sampled : 10/29/08 11:40 **Order #:** 1150198 **Sample Matrix:** AIR
Date Received: 10/30/08 **Submission #:** R2846926 **Analytical Run** 170221

DATE ANALYZED : 11/15/08
ANALYTICAL DILUTION: 10.00
CAN DILUTION : 1.68 Pi= -7.7 Pf= 7.4

ANALYTE	MRL UG/M3	RESULT UG/M3	MRL PPBv	RESULT PPBv
BENZENE	0.35	0.55 J	0.11	0.17 J
1,1-DICHLOROETHENE	0.44	7.3 U	0.11	1.8 U
TRANS-1,2-DICHLOROETHENE	0.44	7.3 U	0.11	1.8 U
CIS-1,2-DICHLOROETHENE	0.44	18	0.11	4.4
ETHYLBENZENE	0.95	16 U	0.22	3.7 U
METHYLENE CHLORIDE	0.38	0.59 JB	0.11	0.17 JB
TETRACHLOROETHENE	0.15	900	0.022	130
TOLUENE	0.41	1.6 J	0.11	0.43 J
1,1,1-TRICHLOROETHANE	0.60	10 U	0.11	1.8 U
TRICHLOROETHENE	0.12	11	0.022	2.0
VINYL CHLORIDE	0.28	4.7 U	0.11	1.8 U
O-XYLENE	0.95	16 U	0.22	3.7 U
M+P-XYLENE	1.9	32 U	0.44	7.4 U

SURROGATE RECOVERIES	QC LIMITS	
BROMOFLUOROBENZENE	(70 - 130 %)	96 %

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD TO-15
Reported: 12/01/08

Malcolm Pirnie, Inc.
Project Reference: FRANKLIN PROJECT #0266-377
Client Sample ID : 267 FRANKLIN OA

Date Sampled : 10/29/08 11:50 **Order #:** 1150201 **Sample Matrix:** AIR
Date Received: 10/30/08 **Submission #:** R2846926 **Analytical Run** 170221

DATE ANALYZED : 11/15/08
ANALYTICAL DILUTION: 1.00
CAN DILUTION : 1.60 Pi= -6.5 Pf= 7.5

ANALYTE	MRL UG/M3	RESULT UG/M3	MRL PPBv	RESULT PPBv
BENZENE	0.35	0.46 J	0.11	0.15 J
1,1-DICHLOROETHENE	0.44	0.70 U	0.11	0.18 U
TRANS-1,2-DICHLOROETHENE	0.44	0.70 U	0.11	0.18 U
CIS-1,2-DICHLOROETHENE	0.44	0.70 U	0.11	0.18 U
ETHYLBENZENE	0.95	0.26 J	0.22	0.059 J
METHYLENE CHLORIDE	0.38	0.22 JB	0.11	0.062 JB
TETRACHLOROETHENE	0.15	0.12 J	0.022	0.017 J
TOLUENE	0.41	1.1	0.11	0.29
1,1,1-TRICHLOROETHANE	0.60	0.96 U	0.11	0.18 U
TRICHLOROETHENE	0.12	0.21	0.022	0.039
VINYL CHLORIDE	0.28	0.45 U	0.11	0.18 U
O-XYLENE	0.95	0.65 J	0.22	0.15 J
M+P-XYLENE	1.9	0.98 J	0.44	0.23 J

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	101	%

COLUMBIA ANALYTICAL SERVICES

VOLATILE ORGANICS
METHOD TO-15
Reported: 12/01/08

Project Reference:
Client Sample ID : METHOD BLANK

Date Sampled : **Order #:** 1155254 **Sample Matrix:** AIR
Date Received: **Submission #:** **Analytical Run** 170221

DATE ANALYZED : 11/15/08
ANALYTICAL DILUTION: 1.00
CAN DILUTION : 1.00 Pi= 0 Pf= 0

ANALYTE	MRL UG/M3	RESULT UG/M3	MRL PPBv	RESULT PPBv
BENZENE	0.35	0.35 U	0.11	0.11 U
1,1-DICHLOROETHENE	0.44	0.44 U	0.11	0.11 U
TRANS-1,2-DICHLOROETHENE	0.44	0.44 U	0.11	0.11 U
CIS-1,2-DICHLOROETHENE	0.44	0.44 U	0.11	0.11 U
ETHYLBENZENE	0.95	0.95 U	0.22	0.22 U
METHYLENE CHLORIDE	0.38	0.042 J	0.11	0.012 J
TETRACHLOROETHENE	0.15	0.15 U	0.022	0.022 U
TOLUENE	0.41	0.41 U	0.11	0.11 U
1,1,1-TRICHLOROETHANE	0.60	0.60 U	0.11	0.11 U
TRICHLOROETHENE	0.12	0.12 U	0.022	0.022 U
VINYL CHLORIDE	0.28	0.28 U	0.11	0.11 U
O-XYLENE	0.95	0.95 U	0.22	0.22 U
M+P-XYLENE	1.9	1.9 U	0.44	0.44 U

SURROGATE RECOVERIES	QC LIMITS		
BROMOFLUOROBENZENE	(70 - 130 %)	100	%

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11/14/08 23:12

LCS 1.0

LCS RECOVERY FOR SECOND SOURCE STANDARD

Compounds Flagged outside of 70-130% recovery

inj volume 250

DF [redacted] nominal volume 1000

IW 11-15-08.

SS Stock 0-515-53A conc.====>	Stock ppm	ppb	MW	cas#	Target ppbv	LCS ppbv	Recovery %	
Internal standard						2.5		
propylene	1.04	10.40	42.08	115-07-1	2.60	2.45	94.2	
dichlorodifluoromethane	1.01	10.10	120.91	75-71-8	2.53	2.47	97.8	
freon-114	1.01	10.10	170.92	76-14-2	2.53	2.47	97.8	
chloromethane	1.01	10.10	50.49	74-87-3	2.53	2.47	97.8	
vinyl chloride	1.01	10.10	62.5	75-01-4	2.53	2.5	99.0	
1,3-butadiene	1.09	10.90	54.09	106-99-0	2.73	2.69	98.7	
bromomethane	1.02	10.20	94.9	74-83-9	2.55	2.46	96.5	
chloroethane	1.01	10.10	64.5	75-00-3	2.53	2.47	97.8	
trichlorofluoromethane	0.99	9.90	137.37	75-69-4	2.48	2.46	99.4	
ethanol	1.03	10.30	46.07	64-17-5	2.58	1.59	61.7 #	NT
freon-113	1.06	10.60	187.38	76-13-1	2.65	2.66	100.4	
1,1-dichloroethene	1.08	10.80	96.94	75-35-4	2.70	2.76	102.2	
acetone	1.03	10.30	58.08	67-64-1	2.58	2.49	96.7	
isopropanol	1.10	11.00	60.1	67-63-0	2.75	1.49	54.2 #	NT
carbon disulfide	1.04	10.40	76.14	75-15-0	2.60	2.44	93.8	
methylene chloride	1.07	10.70	84.93	75-09-2	2.68	2.7	100.9	
trans-1,2-dichloroethene	1.03	10.30	96.94	156-60-5	2.58	2.62	101.7	
methyl tert butyl ether	1.05	10.50	88.15	1634-04-4	2.63	2.76	105.1	
hexane	1.05	10.50	86.18	110-54-3	2.63	2.76	105.1	
1,1-dichloroethane	1.06	10.60	98.96	107-06-2	2.65	2.73	103.0	
vinyl acetate	1.07	10.70	86.09	108-05-4	2.68	2.96	110.7	
2-butanone	1.08	10.80	72.11	78-93-3	2.70	2.67	98.9	
cis-1,2-dichloroethene	1.08	10.80	96.94	156-59-2	2.70	2.75	101.9	
ethyl acetate	1.00	10.00	88.11	141-78-6	2.50	2.45	98.0	
chloroform	1.00	10.00	119.38	67-66-3	2.50	2.68	107.2	
tetrahydrofuran	1.06	10.60	72.11	109-99-9	2.65	2.77	104.5	
Internal standard					0.00	2.5	#DIV/0!	###
1,1,1-trichloroethane	1.05	10.50	133.4	71-55-6	2.63	2.58	98.3	
cyclohexane	1.06	10.60	84.16	110-82-7	2.65	2.64	99.6	
carbon tetrachloride	1.05	10.50	153.82	56-23-5	2.63	2.63	100.2	
1,2-dichloroethane	1.07	10.70	98.96	107-06-2	2.68	2.62	97.9	
benzene	1.07	10.70	78.11	71-43-2	2.68	2.65	99.1	
heptane	1.06	10.60	100.2	142-82-5	2.65	2.67	100.8	
trichloroethylene	1.05	10.50	131.39	79-01-6	2.63	2.47	94.1	
1,2-dichloropropane	1.06	10.60	112.99	78-87-5	2.65	2.7	101.9	
1,4-dioxane	1.05	10.50	88.11	123-91-1	2.63	1.77	67.4 #	NT
bromodichloromethane	1.05	10.50	163.83	75-27-4	2.63	2.57	97.9	
cis-1,3-dichloro-1-propene	1.04	10.40	110.97	10061-01-5	2.60	2.59	99.6	
4-methyl-2-pentanone	1.08	10.80	100.16	108-10-1	2.70	2.57	95.2	
toluene	1.08	10.80	92.14	108-88-3	2.70	2.78	103.0	
trans-1,3-dichloro-1-propene	1.10	11.00	110.97	10061-02-6	2.75	2.88	104.7	
1,1,2-trichloroethane	1.04	10.40	133.4	79-00-5	2.60	2.56	98.5	
tetrachloroethene	1.05	10.50	165.83	127-18-4	2.63	2.47	94.1	
2-hexanone	1.09	10.90	100.16	591-78-6	2.73	2.48	91.0	
dibromochloromethane	1.04	10.40	208.28	124-48-1	2.60	2.58	99.2	
1,2-dibromoethane	1.05	10.50	187.86	106-93-4	2.63	2.52	96.0	
Internal standard					0.00	2.5	#DIV/0!	###
chlorobenzene	1.07	10.70	112.56	108-90-7	2.68	2.6	97.2	
ethylbenzene	1.07	10.70	106.17	100-41-4	2.68	2.68	100.2	
M+P xylene	2.10	21.00	106.17	1330-20-7	5.25	5.31	101.1	
O xylene	1.05	10.50	106.17	95-47-6	2.63	2.62	99.8	
styrene	1.06	10.60	104.15	100-42-5	2.65	2.59	97.7	
bromoform	1.05	10.50	252.73	75-25-2	2.63	2.48	94.5	
Surrogate standard					0.00	2.55	#DIV/0!	###
1,1,2,2-tetrachloroethane	1.05	10.50	167.85	79-34-5	2.63	2.25	85.7	
4-ethyltoluene	1.09	10.90	120.19	622-96-8	2.73	2.51	92.1	
1,3,5-trimethylbenzene	1.06	10.60	120.19	108-67-8	2.65	2.59	97.7	
1,2,4-trimethylbenzene	1.04	10.40	120.19	95-63-6	2.60	2.57	98.8	
1,3-dichlorobenzene	1.06	10.60	147	541-73-1	2.65	2.42	91.3	
1,4-dichlorobenzene	1.05	10.50	147	106-46-7	2.63	2.48	94.5	
benzyl chloride	1.06	10.60	126.59	100-44-7	2.65	2.33	87.9	
1,2-dichlorobenzene	1.02	10.20	147	95-50-1	2.55	2.31	90.6	
1,2,4-trichlorobenzene	1.00	10.00	181.45	120-82-1	2.50	2.45	98.0	
hexachlorobutadiene	1.02	10.20	260.76	87-68-3	2.55	2.33	91.4	

Data Validation Services

120 Cobble Creek Road P.O. Box 208
North Creek, NY 12853

Phone 518-251-4429
Facsimile 518-251-4428

October 15. 2009

John Hilton
Malcolm Pirnie, Inc.
50 Fountain Plaza
Buffalo, NY 14202

RE: 275 Franklin St. site
Data Usability Summary Report (DUSR)
Columbia Analytical Services (CAS) SDG No. R0905263

Dear Mr. Hilton:

Review has been completed for the data packages generated by CAS that pertains to samples collected 09/15/09 at the 275 Franklin St. site. Four air samples were processed for thirteen site-specific compounds by method USEPA TO-15.

The data packages submitted contained full deliverables for validation, but this usability report is primarily generated from review of the summary form information, with full review of sample raw data, and limited review of associated QC raw data. Full validation has not been performed. However, the reported summary forms have been reviewed for application of validation qualifiers, per the USEPA Region 2 validation SOPs and the USEPA CLP National Functional Guidelines for Data Review, with consideration of the requirements of the project QAPP and the specific analytical methodologies. The following items were reviewed:

* Laboratory Narrative Discussion
* Case Narratives
* Custody Documentation
* Holding Times
* Surrogate and Internal Standard Recoveries
* Preparation Blanks
* Laboratory Control Samples (LCSs)
* Instrumental Tunes
* Calibration Standards
* Method Compliance
* Sample Result Verification

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for this level of review.

In summary, results for the target analytes in the samples are usable as reported.

Copies of the sample identification summary and laboratory case narrative are attached to this text, and should be reviewed in conjunction with this report. Also included with this report are validation qualifier definitions laboratory report forms.

The following text discusses quality issues of concern.

Chain-of-Custody/Sample Receipt

The strike-overs on the custody should have been dated and initialed.

Data Package Completeness

Clean canister certification data were not provided. These would be required for full validation.

Volatiles by EPA TO-15

Holding times were met. Surrogate internal standard responses were compliant. Instrument tunes meet fragmentation requirements.

The method blank shows no contamination.

Calibration standard linearity and correlations are within protocol and validation guidelines.

Recoveries for all analytes in the Laboratory Control Sample are within laboratory and validation guidelines. No laboratory duplicate evaluation was performed.

Please do not hesitate to contact me if you have comments or questions regarding this report.

Very truly yours,

Judy Harry

CLIENT and LABORATORY SAMPLE IDs and CASE NARRATIVE

CAS ASP/CLP Batching Form/Login Sheet

Client Proj #: 0266-377
Submission: R0905263
Client: Malcolm Pirnie, Incorporated
Client Rep: JJAEGER
Project: 275 Franklin Street site

Batch Complete: Yes
Diskette Requested: No
Date: 9/16/09
Custody Seal: Present/Absent:
Chain of Custody: Present/Absent:

Date Revised:
Date Due: 10/7/09
Protocol: EPA
Shipping No.:
SDG #: 267 FRANKLIN-BA1

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R0905263-001	267 FRANKLIN-BA1	Air	TO-15	9/15/09	9/16/09			
R0905263-002	267 FRANKLIN-BA2	Air	TO-15	9/15/09	9/16/09			
R0905263-003	267 FRANKLIN-BA3	Air	TO-15	9/15/09	9/16/09			
R0905263-004	267 FRANKLIN-OA	Air	TO-15	9/15/09	9/16/09			

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Folder Comments:

CASE NARRATIVE

COMPANY: Malcolm Pirnie
275 Franklin Street
SERVICE REQUEST #: R0905263

Malcolm Pirnie samples were collected on 09/15/09 and received at CAS on 09/16/09 in good condition.

VOLATILE ORGANICS

Four air samples were analyzed for a site specific list of Volatiles by Method TO-15.

All the initial and continuing calibration criteria were met for all analytes.

All internal standard areas were within QC limits.

All surrogate standard recoveries were within QC limits.

All Reference spike recoveries were within limits.

The Laboratory blanks associated with these samples were free of contamination.

All samples were analyzed within required holding times.

No other analytical or QC problems were encountered.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the details conditioned above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

SAMPLE RESULTS FORMS

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Malcolm Pirnie, Incorporated
Project: 275 Franklin Street site/0266-377
Sample Matrix: Air

Service Request: R0905263
Date Collected: 9/15/09 1019
Date Received: 9/16/09

Sample Name: 267 FRANKLIN-BA1
Lab Code: R0905263-001

Analytical Method: TO-15

Date Analyzed: 9/23/09 1836
Canister Dilution Factor: 1.54

Initial Pressure (psig): -2.9 Final Pressure (psig): 3.5

CAS #	Analyte Name	Sample Amount mL	Result µg/m³	MRL µg/m³	Result ppbv	MRL ppbv	Data Qualifier
75-01-4	Vinyl Chloride	816	0.11	0.11	0.044	0.044	U
75-35-4	1,1-Dichloroethene (1,1-DCE)	816	0.83	0.83	0.21	0.21	U
75-09-2	Dichloromethane (Methylene Chloride)	816	0.72	0.72	0.21	0.21	U
156-60-5	trans-1,2-Dichloroethene	816	0.83	0.83	0.21	0.21	U
156-59-2	cis-1,2-Dichloroethene	816	0.83	0.83	0.21	0.21	U
71-55-6	1,1,1-Trichloroethane (TCA)	816	1.1	1.1	0.21	0.21	U
71-43-2	Benzene	816	0.66	0.66	0.21	0.21	U
79-01-6	Trichloroethene (TCE)	816	0.11	0.11	0.021	0.021	U
108-88-3	**Toluene**	816	**2.5**	0.77	**0.66**	0.21	
127-18-4	**Tetrachloroethene (PCE)**	816	**0.81**	0.15	**0.12**	0.022	
100-41-4	Ethylbenzene	816	1.8	1.8	0.41	0.41	U
179601-23-1	m,p-Xylenes	816	3.6	3.6	0.83	0.83	U
95-47-6	o-Xylene	816	1.8	1.8	0.41	0.41	U

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	116	70-130	9/23/09 1836	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Malcolm Pirnie, Incorporated
Project: 275 Franklin Street site/0266-377
Sample Matrix: Air

Service Request: R0905263
Date Collected: 9/15/09 1013
Date Received: 9/16/09

Sample Name: 267 FRANKLIN-BA2
Lab Code: R0905263-002

Analytical Method: TO-15

Date Analyzed: 9/23/09 1655
Canister Dilution Factor: 1.38

Initial Pressure (psig): -1.4 Final Pressure (psig): 3.6

CAS #	Analyte Name	Sample Amount mL	Result µg/m³	MRL µg/m³	Result ppbv	MRL ppbv	Data Qualifier
75-01-4	Vinyl Chloride	1000	0.083	0.083	0.032	0.032	U
75-35-4	1,1-Dichloroethene (1,1-DCE)	1000	0.61	0.61	0.15	0.15	U
75-09-2	Dichloromethane (Methylene Chloride)	1000	0.52	0.52	0.15	0.15	U
156-60-5	trans-1,2-Dichloroethene	1000	0.61	0.61	0.15	0.15	U
156-59-2	cis-1,2-Dichloroethene	1000	0.61	0.61	0.15	0.15	U
71-55-6	1,1,1-Trichloroethane (TCA)	1000	0.83	0.83	0.15	0.15	U
71-43-2	**Benzene**	1000	**0.75**	0.48	**0.23**	0.15	
79-01-6	**Trichloroethene (TCE)**	1000	**0.094**	0.083	**0.018**	0.015	
108-88-3	**Toluene**	1000	**8.4**	0.57	**2.2**	0.15	
127-18-4	**Tetrachloroethene (PCE)**	1000	**4.0**	0.11	**0.59**	0.016	
100-41-4	Ethylbenzene	1000	1.3	1.3	0.30	0.30	U
179601-23-1	m,p-Xylenes	1000	2.6	2.6	0.61	0.61	U
95-47-6	o-Xylene	1000	1.3	1.3	0.30	0.30	U

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	113	70-130	9/23/09 1655	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Malcolm Pirnie, Incorporated
Project: 275 Franklin Street site/0266-377
Sample Matrix: Air

Service Request: R0905263
Date Collected: 9/15/09 1018
Date Received: 9/16/09

Sample Name: 267 FRANKLIN-BA3
Lab Code: R0905263-003

Analytical Method: TO-15

Date Analyzed: 9/23/09 1746
Canister Dilution Factor: 1.53

Initial Pressure (psig): -2.8 Final Pressure (psig): 3.5

CAS #	Analyte Name	Sample Amount mL	Result µg/m³	MRL µg/m³	Result ppbv	MRL ppbv	Data Qualifier
75-01-4	Vinyl Chloride	1000	0.092	0.092	0.036	0.036	U
75-35-4	1,1-Dichloroethene (1,1-DCE)	1000	0.67	0.67	0.17	0.17	U
75-09-2	Dichloromethane (Methylene Chloride)	1000	0.58	0.58	0.17	0.17	U
156-60-5	trans-1,2-Dichloroethene	1000	0.67	0.67	0.17	0.17	U
156-59-2	cis-1,2-Dichloroethene	1000	0.67	0.67	0.17	0.17	U
71-55-6	1,1,1-Trichloroethane (TCA)	1000	0.92	0.92	0.17	0.17	U
71-43-2	Benzene	1000	0.54	0.54	0.17	0.17	U
79-01-6	Trichloroethene (TCE)	1000	0.092	0.092	0.017	0.017	U
108-88-3	**Toluene**	1000	**2.1**	0.63	**0.56**	0.17	
127-18-4	**Tetrachloroethene (PCE)**	1000	**0.76**	0.12	**0.11**	0.018	
100-41-4	Ethylbenzene	1000	1.5	1.5	0.33	0.33	U
179601-23-1	m,p-Xylenes	1000	2.9	2.9	0.67	0.67	U
95-47-6	o-Xylene	1000	1.5	1.5	0.33	0.33	U

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	114	70-130	9/23/09 1746	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Malcolm Pirnie, Incorporated
Project: 275 Franklin Street site/0266-377
Sample Matrix: Air

Service Request: R0905263
Date Collected: 9/15/09 0958
Date Received: 9/16/09

Sample Name: 267 FRANKLIN-OA
Lab Code: R0905263-004

Analytical Method: TO-15

Date Analyzed: 9/23/09 1558
Canister Dilution Factor: 1.48

Initial Pressure (psig): -2.4 Final Pressure (psig): 3.5

CAS #	Analyte Name	Sample Amount mL	Result µg/m³	MRL µg/m³	Result ppbv	MRL ppbv	Data Qualifier
75-01-4	Vinyl Chloride	1000	0.089	0.089	0.035	0.035	U
75-35-4	1,1-Dichloroethene (1,1-DCE)	1000	0.65	0.65	0.16	0.16	U
75-09-2	Dichloromethane (Methylene Chloride)	1000	0.56	0.56	0.16	0.16	U
156-60-5	trans-1,2-Dichloroethene	1000	0.65	0.65	0.16	0.16	U
156-59-2	cis-1,2-Dichloroethene	1000	0.65	0.65	0.16	0.16	U
71-55-6	1,1,1-Trichloroethane (TCA)	1000	0.89	0.89	0.16	0.16	U
71-43-2	Benzene	1000	0.52	0.52	0.16	0.16	U
79-01-6	Trichloroethene (TCE)	1000	0.089	0.089	0.017	0.017	U
108-88-3	**Toluene**	1000	**1.6**	0.61	**0.43**	0.16	
127-18-4	Tetrachloroethene (PCE)	1000	0.12	0.12	0.017	0.017	U
100-41-4	Ethylbenzene	1000	1.4	1.4	0.32	0.32	U
179601-23-1	m,p-Xylenes	1000	2.8	2.8	0.65	0.65	U
95-47-6	o-Xylene	1000	1.4	1.4	0.32	0.32	U

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	113	70-130	9/23/09 1558	