



**Phase III Environmental Site Assessment Report
Asia Offset and Lithograph Printing, Inc.
52-25 Barnett Avenue
Long Island City, New York**

May 2010

Prepared for:

**Naiching Sun
45-44 194th Street
Flushing, NY 11358**

Prepared by:

**CA RICH CONSULTANTS, INC.
17 Dupont Street
Plainview, NY 11803**



e-mail: eweinstock@carichinc.com

May 12, 2010

e-mail: naichingsun@gmail.com

Naiching Sun
45-44 194th Street
Flushing, NY 11358

Re: **Phase III Environmental Site Assessment
Report
Asia Offset and Lithograph Printing, Inc.
52-25 Barnett Avenue
Long Island City, NY 11104**

Dear Mr. Sun:

CA RICH Consultants, Inc. (CA RICH) is pleased to present this Phase III Environmental Site Assessment Report regarding the above-referenced property.

1.0 Introduction and Site History

The former Asia Offset and Lithograph Printing facility is located at 52-25 Barnett Avenue in the Long Island City section of Queens, NY. The property was purchased by Asia Offset and Lithograph Printing, Inc. in February of 1988 and was operated as a newspaper printing plant from that time until 2009. Presently, the building is vacant. The building measures approximately 155 feet x 135 feet with a narrow yard in the rear and sidewalk frontage.

As shown on Figure 1, the neighbor directly to the east is a multi-tenant building occupied by AHRC, Variety Accessories, and Impact Innovations (Ref. 1). The neighbor to the south is TSBA Controls. To the north are train tracks operated by the Long Island Rail Road. The neighbors to the west are Perma Iron Craft and Capitol Glass and Sash. The building occupied by Capitol Glass and Sash was formerly occupied by Cleaners Products Chemical Distributors. A Phase I Environmental Site Assessment (ESA) prepared by Preferred Environmental Services (Preferred) identified the former Cleaners Products Chemical Distributors as having been listed on a NYSDEC database and having the potential to impact subsurface conditions in the general site vicinity ^(Ref. 1).

Based on the water table map compiled by the USGS, the anticipated direction of groundwater flow is to the northwest and in the direction of the East River. Regional and localized water table maps are included as Figures 2 and 3. The soil immediately underlying the property consists of sand and gravel of the Pleistocene Age Upper Glacial formation. This section of Queens is sewered and serviced by municipal water derived from the reservoir system located in upstate New York. The building is presently heated by natural gas, but was previously heated by fuel oil.

2.0 Previous Investigations

The subject property is currently for sale and an interested purchaser has retained an environmental consultant to perform Phase I and Phase II ESAs at this former printing plant (Refs. 1 and 2).

2.1 Phase I ESA

The Phase I was completed in December 2009 and identified several Potential Environmental Concerns (PECs) and Recognized Environmental Concerns (RECs). Presented in detail in the ESA report, these are summarized below:

Tank Related Issues – Two Underground Storage Tanks (USTs) exist at the property that are no longer in use. One was used for gasoline and the other for heating oil. The status of these tanks was unknown at the time of the Phase I.

Areas of Patched or Stained Concrete, Stained Soil and Mixing Drum – Areas of stained concrete and soil were noted at different locations on the property.

Metal Floor Plates – Several metal floor plates and a mixing drum were identified inside the property. These were suspected as potential environmental concerns.

Asbestos and Lead-Based Paint – Based on the age of the building, an estimated 700 feet of suspect asbestos pipe insulation was noted. In addition, painted areas were suspect to be covered with lead-based paint.

Former On-Site Sanitary Cesspools – The Phase I ESA indicated that the building might have been serviced by an on-site cesspool prior to 1956.

NYSDEC and USEPA Database Site – The former Cleaners Products Chemical Distributors site (currently occupied by Capitol Glass and Sash) is located approximately 50 feet due west of the property.

2.2 Phase II ESA

A Phase II ESA was performed to address the PECs and RECs summarized above. This work is described in Preferred's report completed in February 2010. A total of 15 soil borings including the collection of associated soil samples were performed at the property. In addition, five groundwater samples were collected from below the property. In their report, Preferred noted the following (Ref. 2, pg. 3).

"Based on field screening performed during the Phase II site investigation, no suspect conditions were noted relative to the following features: basement boiler room floor drain, sump or stairwell drains; the former fuel oil UST located at the south-central property perimeter; the former gasoline UST located at the southwest corner of the building; the loading dock dry well; the three concrete patches interior to the building; the interior soils underneath the steel plates; and the former buried chemical mixing drum."

A discussion of the testing and results from the Phase II ESA is presented below. Figure 6 and Tables 1 to 3 of the Phase II ESA are incorporated into Appendix A of this report.

Tank Related Issues – Soil borings were installed adjacent to the two USTs at the property and soil samples were screened with a Photo-Ionization Detector (PID). These borings are identified as SB-1, 2, 3, 4, 5 and 15 in the report. Two groundwater samples

– identified as GW-1 and GW-2 – were also collected and tested. There were no detections of aromatic VOCs in the water sample collected below the gasoline UST and no detections of aromatic VOCs or SVOCs in the water sample collected from below the heating oil tank. (The VOC analyses of samples from below the USTs were limited to aromatics and did not include chlorinated compounds. An SVOC analysis was not performed on the sample from below the gasoline tank.)

Areas of Patched or Stained Concrete, Stained Soil and Mixing Drum – A total of nine soil borings were placed in areas of patched or stained concrete, stained soil, and a former mixing drum. These are identified as SB-6, 7, 8, 9, 10, 11, 12, 13 and 14 in the report. Only one detection of a VOC was reported – Perchloroethene (PCE) was detected at 110 ug/kg in the soil sample from two to four feet at boring SB-6. This value is significantly below both the 1994 TAGM cleanup standard (Ref. 3) of 1,400 ug/kg and the 2006 Part 375 commercial standard (Ref. 4) of 150,000 ug/kg. There were no other detections of PCE in the soil samples.

One metal, chromium, was detected in the soil sample from two to four feet at boring SB-6 at a concentration 102 mg/kg which exceeds the TAGM standard of 50 mg/kg. This, however, was significantly lower than the Part 375 commercial standard 400 mg/kg.

PCE was detected in three groundwater samples at concentrations ranging from 32 to 78 ug/L. The metal barium (a naturally occurring substance) was detected in the dissolved or filtered water sample in excess of groundwater standards in two samples.

A sub-slab soil vapor sample, identified as sample SS-1, was collected from one location and tested for VOCs. The results revealed detections of 13,000 ug/m³ of PCE and 514 ug/m³ of Trichloroethene (TCE).

Metal Floor Plates – Several metal floor plates were identified inside the property and investigated during the Phase II ESA. These are covers to the clean-out plugs for the sewer line below the floor of the building. No suspect conditions were noted relative to these structures.

Asbestos and Lead-Based Paint – Based on the age of the building, suspect asbestos pipe insulation and lead-based paint was noted within the structure. No testing of the suspect asbestos pipe insulation or painted surfaces was performed during the Phase II ESA.

Former On-Site Sanitary Cesspools – The Phase II ESA did not include any additional information regarding a potential on-site cesspool.

NYSDEC and USEPA Database Site – The Phase II ESA did not include any additional information regarding the former Cleaners Products Chemical Distributors site.

The Phase II ESA report concluded that soil impacts had been identified at "actionable concentrations" when compared to the 1994 TAGM guidelines. It also concluded that groundwater impacts had been identified at "actionable concentrations". Lastly, it indicated that the elevated levels of PCE and TCE in the sub-slab soil vapor presented a very serious health concern. Preferred also recommended that the NYSDEC and NYSDOH be contacted regarding the results of the Phase II ESA.

3.0 Summary of Remedial Actions Performed

3.1 Relevant Communications

The current owners were informed that, based on the findings of the ESA reports, the prospective buyer had declined to purchase the property. However, the prospective buyer indicated that they would be interested in pursuing this purchase in the future once the concerns identified in the ESA reports have been addressed. CA Rich was contacted by the current owners of the property on February 23, 2010, after they received the ESA reports. Upon review of the documents, CA RICH performed the following:

- March 5, 2010 – Eric Weinstock of CA RICH called the New York City Mayor's Office of Environmental Remediation (NYCOER) to determine if this site would be a candidate for the City's Brownfield program. Shaminder Chawla of the NYCOER informed us that the City's Brownfield program was not excepting sites as that time, but hoped to be set up to do so within a month or two. After hearing the results from the Phase II ESA, he recommended that we call Amarinderjit "Amar" Nagi or Jane O'Connell of the NYSDEC, Region 2 office.
- March 9, 2010 – Eric Weinstock spoke with Amar Nagi of the NYSDEC and verbally discussed the results of the Phase II ESA. Amar indicated that if we did not have evidence of a spill, that we should not call in a report to the DEC Hotline. He said that we should send copies of the Phase I and II ESA reports to himself and Jane O'Connell of the NYSDEC and to Joseph Crua of the NYSDOH. Eric Weinstock explained to Amar that CA RICH wanted to install monitoring wells to confirm the VOC detections in the groundwater and a Sub-Slab Depressurization (SSD) system to vent the VOCs from below the building slab. Amar indicated that sites with contaminant levels in the range detected at this property typically were not placed on the NYSDEC Registry of Inactive Hazardous Waste Site (the Registry) and that we did not need an approved plan or permit from the NYSDEC to install monitoring wells or a SSD system. He recommended that we follow the NYSDOH October 2006 Guidance Document regarding the SSD system.
- March 10, 2010 – CA RICH forwarded the Phase I and II reports to Amar Nagi and Joseph Crua along with a cover memo. In that memo, it was explained that CA RICH will be installing a SSD system at the property. Jill Haimson of Preferred was provided a copy of the correspondence. Eric Weinstock called Mr. Nagi again on March 16th to confirm that he received the documents and to determine if the DEC had any comments regarding this property.
- March 30, 2010 – After finalizing an agreement with the property owner, CA RICH forwarded a copy of a work plan to the NYSDEC. The work plan included procedures to: design and install an SSD system; install four on-site monitoring wells; and properly abandon one out-of-service Underground Storage Tank (UST). Jill Haimson of Preferred was again provided a copy of the correspondence. A Petroleum Bulk Storage (PBS) application was also filled out and provided to the property owner with instructions to forward it to the NYSDEC along with the required registration fee.

3.2 Scope of Remedial Actions

The following section describes the scope of remedial actions performed at this property.

3.2.1 Tank Related Issues

On March 23, 2010, a field crew from X-Ray Locating Services met a CA RICH field technician at the property. The locations of the tops of the two USTs were determined using a combination of magnetics and ground penetrating radar. The remote and direct fill ports to the former gasoline tank were located and inspected. Both were observed to have been filled in with concrete. The remote and direct fill ports to the 5,000 gallon out-of-service heating oil tank were also located. The heating oil tank had approximately 664 gallons of product in it and was observed to be in good condition. Pictures of the abandoned USTs are included in Appendix G.

Aarco Environmental Services and Mercury Tank & Pump, Inc. were retained to properly abandon the out-of-service heating oil tank. The remaining product was pumped out and the inside was cleaned. The tank was then filled with a concrete slurry. A copy of the disposal manifests and NYC Fire Marshal's Affidavit are attached to this report as Appendices E and F.

3.2.2 Areas of Patched or Stained Concrete, Stained Soil and Mixing Drum

Soil

The building is currently zoned F4-Factory/Industrial, although a future tenant may choose to use this property for commercial purposes. However, the property does not lend itself to residential usage in its current configuration. As such, the results of the soil sample analyses from the Phase II ESA were compared to the Commercial standards included in 6NYCRR Part 375 as these newer standards supersede the older TAGM standards.

<u>Detections from Phase II ESA</u>	<u>Part 375 Commercial standards</u>
Chromium (total): 102 mg/kg	400 mg/kg
Perchloroethene: 110 ug/kg	1,300 ug/kg

Based on this comparison, there were no detections in the soil that exceed the NYSDEC's Commercial standards. Therefore, remediation of the soil at the property was not deemed necessary.

Groundwater

PCE was detected in three of the groundwater samples collected during the Phase II ESA at concentrations of 32, 60 and 78 ug/L. To confirm these detections and develop an on-site water table map, two-inch diameter groundwater monitoring wells were installed at four locations on the property. The locations of the new well correspond to the Phase II ESA groundwater borings as follows:

<u>Monitoring Well ID #</u>	<u>Phase II ESA Boring ID#</u>
MW-1	GW-2
MW-2	GW-5
MW-3	GW-3
MW-4	GW-4

The wells were installed on April 6 through 8, 2010 using a hollow stem auger drill rig and developed on April 8, 2010 using a Waterra™ pump, foot valve and surge block with dedicated tubing. Due to limited space and overhead wires, the drill rig could not access the rear yard at the location of boring GW-4. This well was placed at a nearby location inside the building. A well location map is included as Figure 4 and boring logs are included in Appendix B.

The wells were sampled on April 14, 2010. A minimum of three casing volumes of water were purged from the wells using a pre-cleaned Whale™ submersible pump and dedicated tubing. The samples were then collected directly from the pump discharge using laboratory-issued 40 mil vials and placed in an ice-filled cooler. They were then delivered to EcoTest Laboratories, Inc. under chain-of-custody documentation for the analysis of VOCs using EPA method 8260.

The results of the groundwater samples are presented on Table 1 and Figure 4 of this report. PCE was detected in the three monitoring wells located on the western side of the property (MW-1, 2 and 3) at concentrations ranging from 21 to 39 ug/L which are less than the values detected during the Phase II ESA. PCE was not detected in well MW-4, located on the eastern side of the property.

The elevations of the monitoring well casings were surveyed on by a NYS-licensed surveyor on April 14, 2010. Depth to water measurements were taken on May 7, 2010 using a chalked steel tape. A water table map was prepared by subtracting the measured depth to water measurements for the surveyed casing elevations. As shown on Figure 5, the direction of groundwater flow along the western side of the property is towards the northwest and agrees with the water table elevation map prepared by the USGS. The elevation of the water table is slightly higher than the 2006 USGS data, presumably due to the high amount of rainfall during March of 2010.

Sub-Slab Soil Vapor

During the Phase II ESA, sub-slab soil vapor sample SS-1 was collected from the northwest portion of the property. A PCE detection of 13,000 ug/m³ and a TCE detection of 514 ug/m³ were measured in this sample. Although these concentrations are elevated as compared to background indoor air results, the low levels of PCE and the absence of TCE in the soil and groundwater samples suggest that this detection is not the result of a major on-site release of chlorinated solvents. The on-site water table elevation map suggests that PCE may be migrating onto the property from the southeast. In addition, the former Cleaners Products Chemical Distributors site (currently occupied by Capitol Glass and Sash) is located approximately 50 feet due west of the property.

To address the sub-slab soil vapor issue at the property, a Sub-Slab Depressurization (SSD) system was installed at the site. Details of the layout of the SSD system are presented on Figure 6. Trenches one-foot deep by one-foot wide were excavated in the floor of the building as shown. Four-inch diameter perforated PVC pipe surrounded by filter fabric was set into the trenches. The pipe was then surrounded with one-half inch diameter, washed, rounded gravel. New concrete was then poured completing the surface of the trenches. Pictures of the SSD installation are included in Appendix G.

On April 14, 2010, a pilot test of the SSD system was performed. A portable blower with a variable-speed drive was mobilized to the property and connected to the exhaust vent of the system. For the initial test, the variable speed drive was adjusted so that the blower produced a vacuum of one-inch of water at the exhaust stack. One-half inch diameter holes were drilled through the concrete floor at different distances from the trenches and sealed with a rubber stopper equipped with a barbed fitting. The sub-slab vacuum produced during the test was then measured using a magnehelic vacuum gauge and recorded. Total VOCs were also measured using a Photo-Ionization Detector (PID) and recorded. A second test was then performed by

increasing the speed of the blower until a vacuum of two inches of water was measured at the exhaust stack. Sub-slab vacuum and VOC readings were again recorded. The results of the first and second pilot tests are summarized on Figures 7 and 8 of this Report. A vacuum of between 0.01 and 0.04 inches of water was measured during the two tests. PID readings of 1 ppm were also recorded from the discharge of the blower.

Based on the pilot test, a Fantech Model HP220 fan was selected. The fan was installed on the exterior exhaust pipe of the system. The exhaust duct was extended to the roof with a rain cap. The fan was then connected to the electric panel by a licensed electrician. A permanent magnehelic vacuum gauge was mounted on the wall inside the building adjacent to the exhaust stack. Upon start up of the system on April 20, 2010, a vacuum reading of one and one-half inches of water vacuum was measured on the gauge. It is believed that this vacuum will be sufficient to prevent sub-slab vapors from entering the building.

3.2.3 Metal Floor Plates

The metal floor plates mentioned in the Phase II ESA are access covers to clean-out plugs installed in the building's sewer line. Pictures of the floor pits are included in Appendix G. The pits below these plates were screened during the Phase II ESA and were determined not to present a suspect condition. Since access to these pits must be maintained in the event the sewer line has to be cleared, the pits were not filled in with concrete. Instead, the metal covers were sealed to the floor using silicone caulking to ensure an air tight seal for the SSD system. The cracks in the floor were also sealed using an epoxy caulking material.

3.2.4 Asbestos and Lead-Based Paint

No testing of the suspect asbestos pipe insulation or the suspect lead-based paint were performed during this phase of work. Based on the age of the building, it is reasonable to suspect that these materials exist at the property. An asbestos and lead paint survey should be performed at this property before any planned building renovations are performed and the appropriate forms should be filed.

3.2.5 Former On-Site Sanitary Cesspools

No additional information regarding the prior use of on-site sanitary cesspools was reviewed as part of this investigation. Buildings in this section of Queens have typically been serviced by municipal sewers. If any new information is discovered regarding the prior use of on-site sanitary cesspool, this issue should be evaluated at that time.

3.2.6 NYSDEC and USEPA Database Site

No additional information regarding the former Cleaners Products Chemical Distributors site was reviewed as part of this investigation.

4.0 Conclusions

- The results of the soil sample analyses from the Phase II ESA were compared to the Commercial standards included in 6NYCRR Part 375 as these standards supersede the older TAGM standards. Based on this comparison, there were no detections in the soil that exceed the Commercial standards. Therefore, remediation of the soil at the property is not deemed necessary.
- Regionally, the groundwater in this portion of Queens flows towards the East River and in a northwesterly direction based on USGS data.

- Four monitoring wells were installed at the site to re-evaluate the groundwater quality and plot an on-site water table map. The flow direction plotted from the wells on the western portion of the property agree with the USGS data.
- PCE was detected in water samples collected from the three wells located in the western portion of the property at ranges of 21 to 39 ug/L. These values are about one half the magnitude measured in the Geoprobe groundwater samples collected during the Phase II ESA. The orientation of the detections suggests that PCE is migrating onto the property from an off-site, upgradient source.
- PCE was detected at 13,000 ug/m³ and TCE was detected at 514 ug/m³ in a sub-slab soil vapor sample. However, TCE was not detected in any of the soil or groundwater samples and the levels of PCE that were detected in these media are not indicative of a major release of solvents.
- A SSD system was installed at the property. Performance of a pilot test conducted on the subsurface vents confirmed that negative pressure or vacuum was developed below the slab. The continued operation of this system will ensure that the subsurface PCE does not enter the structure. The metal covers to the access pits in the floor should remain sealed. If these need to be opened for any reason, they should be resealed after the necessary work is completed.
- An asbestos and lead paint survey should be performed at this property before any planned building renovations are performed and the appropriate forms should be filed.

If you have any questions regarding this report, please do not hesitate to call our office.

Respectfully,

CA RICH CONSULTANTS, INC.



Eric A. Weinstock
Vice President

cc: Joseph O'Connell, NYSDEC, Region 2
Jill Haimson, Preferred Environmental

References

1. Preferred Environmental Services (December 2009), Limited Due Diligence Study – Commercial Property, 52-25 Barnet Avenue, Sunnyside, New York
2. Preferred Environmental Services (February 2010), Phase II Site Investigation Summary Report – Commercial Property, 52-25 Barnet Avenue, Sunnyside, New York
3. NYSDEC, (January 24, 1994), Technical and Administrative Guidance Memorandum: Determination of Soil Cleanup Objectives and Cleanup Levels.
4. NYSDEC, (December 14, 2006), 6NYCRR Part 375, Environmental Remediation Programs

List of Attachments

Figures

1. Site Location Map
2. Regional Water Table Map
3. Localized Water Table Map
4. Areal Distribution of PCE in Groundwater
5. Water Table Elevation Contour Map
6. Details of Sub-Slab Depressurization System
7. Sub-Slab Depressurization System Pilot Test No. 1
8. Sub-Slab Depressurization System Pilot Test No. 2

Table

1. Summary of PCE Detections in On-Site Monitoring Wells.

Appendices

- A. Preferred Figure and Tables
- B. Soil Boring Logs and Well Construction Diagrams
- C. Laboratory Results
- D. Fantech Model HP220 Product Literature
- E. Waste Oil Disposal Receipts
- F. FDNY Tank Abandonment Affidavit
- G. Site Photos

FIGURES



*Adapted from 2010 Sanborn Map
And Google Earth*



CA RICH CONSULTANTS, INC.
17 Dupont Street,
Plainview, NY 11803

TITLE:

PROPERTY LOCATION MAP

DATE:

5/1/2010

SCALE:

AS SHOWN

FIGURE:

1

DRAWING:

**5225 Barnett Avenue
Long Island City, New York**

DRAWN BY:

JTC

APPR. BY:

EAW



Adapted from USGS Water Table Map of Long Island 2006



CA RICH CONSULTANTS, INC.
17 Dupont Street,
Plainview, NY 11803

TITLE:

REGIONAL WATER TABLE MAP

DATE:

5/13/2010

SCALE:

AS SHOWN

FIGURE:

2

DRAWING:

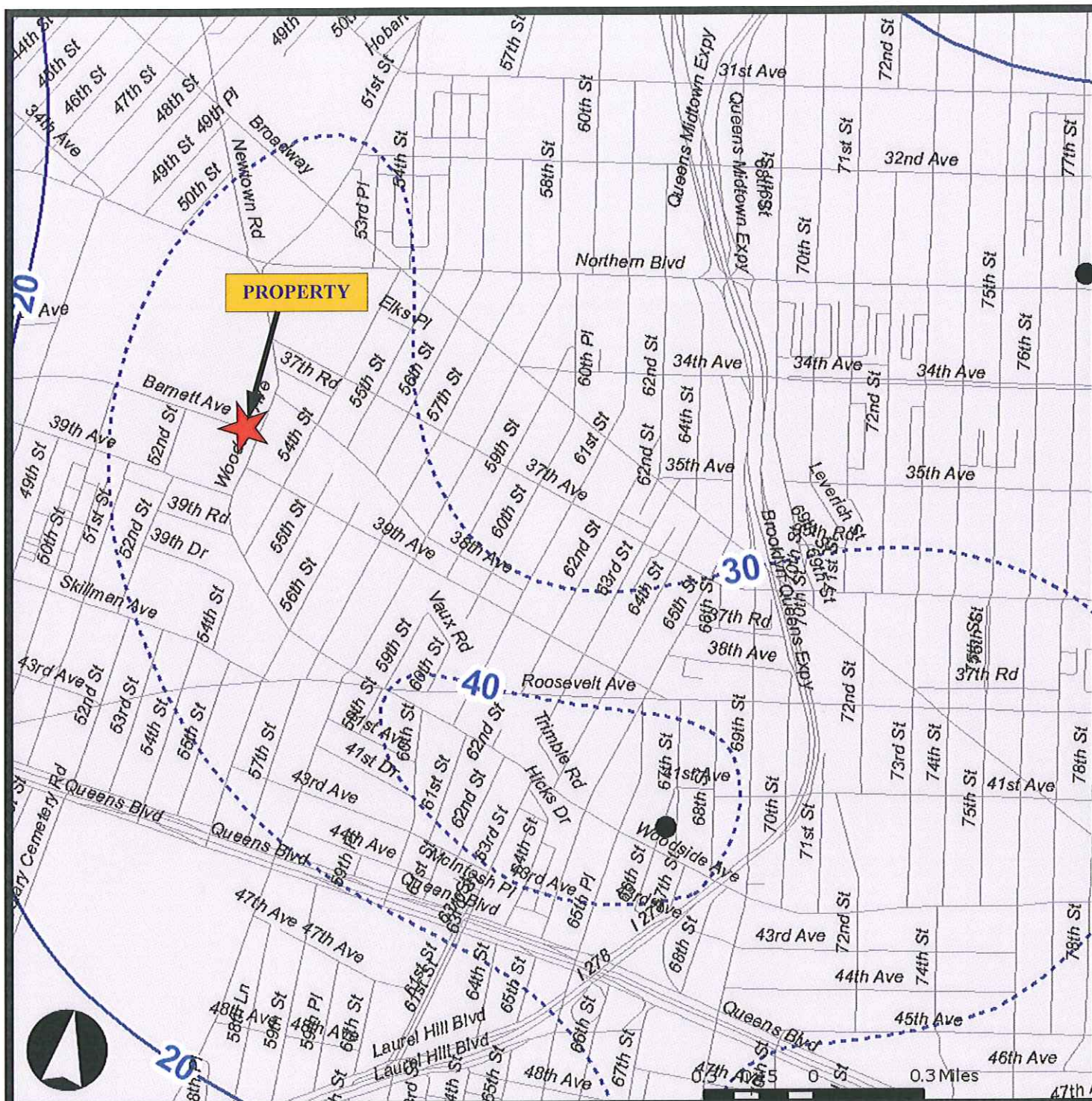
**5225 Barnett Avenue
Long Island City, New York**

DRAWN BY:

JTC

APPR. BY:

EAW



Adapted from USGS Water Table Map of
Long Island 2006



CA RICH
ENVIRONMENTAL SPECIALISTS

CA RICH CONSULTANTS, INC.
17 Dupont Street,
Plainview, NY 11803

TITLE:

LOCALIZED WATER TABLE MAP

DATE:

5/13/2010

SCALE:

AS SHOWN

FIGURE:

3

DRAWING:

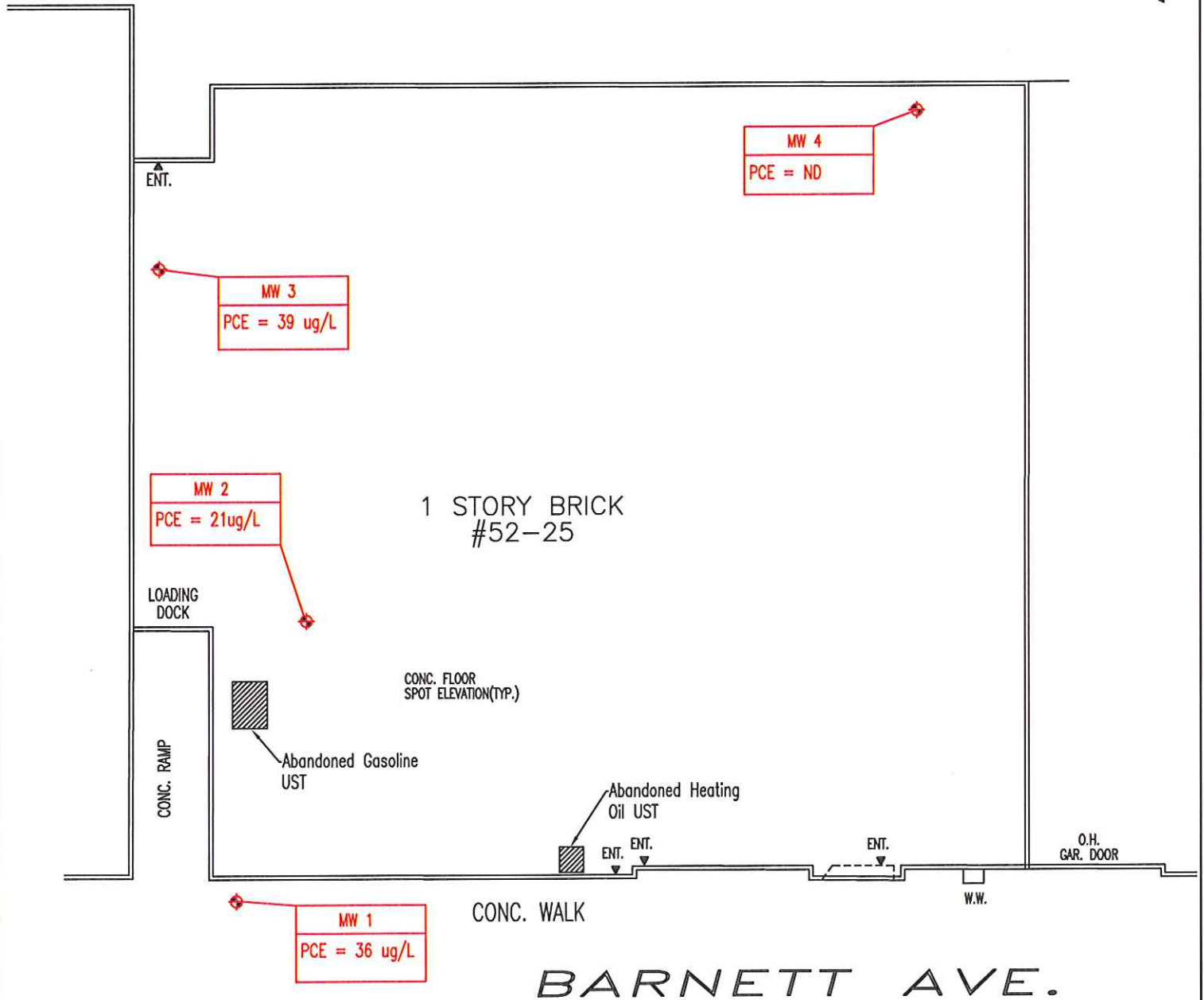
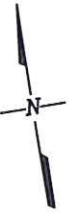
**5225 Barnett Avenue
Long Island City, New York**

DRAWN BY:

JTC

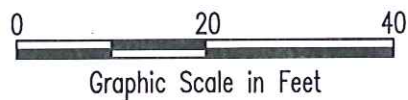
APPR. BY:

EAW



LEGEND

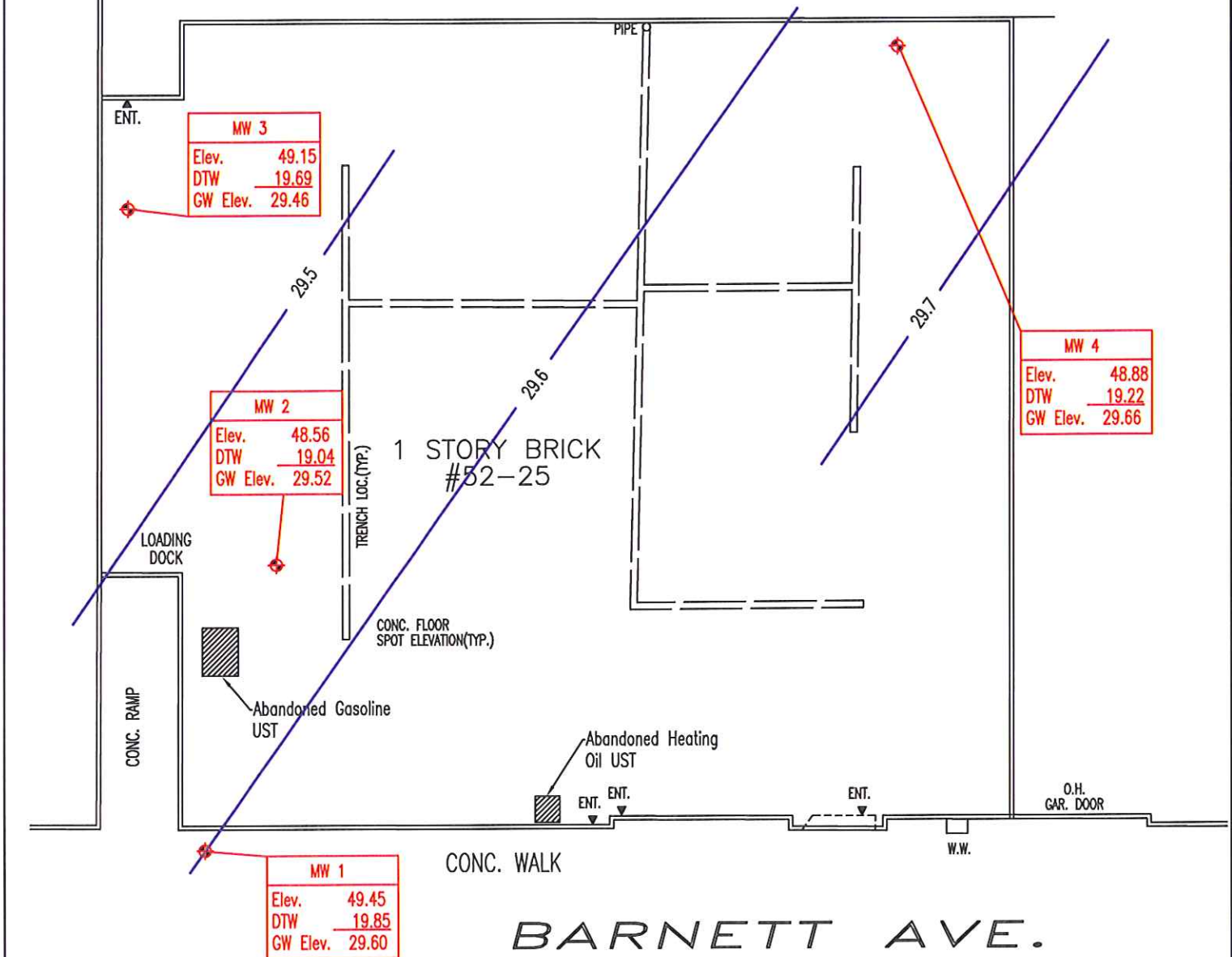
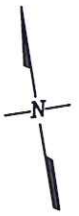
Monitoring Well



CA RICH CONSULTANTS, INC.

Certified Groundwater and Environmental Specialists
17 Dupont Street, Plainview, New York 11803

TITLE: Areal Distribution of PCE in Groundwater		DATE: 5/11/2010
FIGURE: 4		SCALE: As Shown
DRAWING NO: 2010-2A	52-25 Barnett Avenue Long Island City, NY	DRAWN BY: J.T.C.
		APPR. BY: E.A.W.



LEGEND

Monitoring Well

Groundwater Contour
Elevation in Feet
Above Sea Level

0 20 40
Graphic Scale in Feet

CA RICH CONSULTANTS, INC.

Certified Groundwater and Environmental Specialists
17 Dupont Street, Plainview, New York 11803

TITLE:

Water Table Elevation
Contour Map on 5/7/2010

DATE:

5/11/2010

SCALE:

As Shown

FIGURE:

5

DRAWING NO:

2010-1B

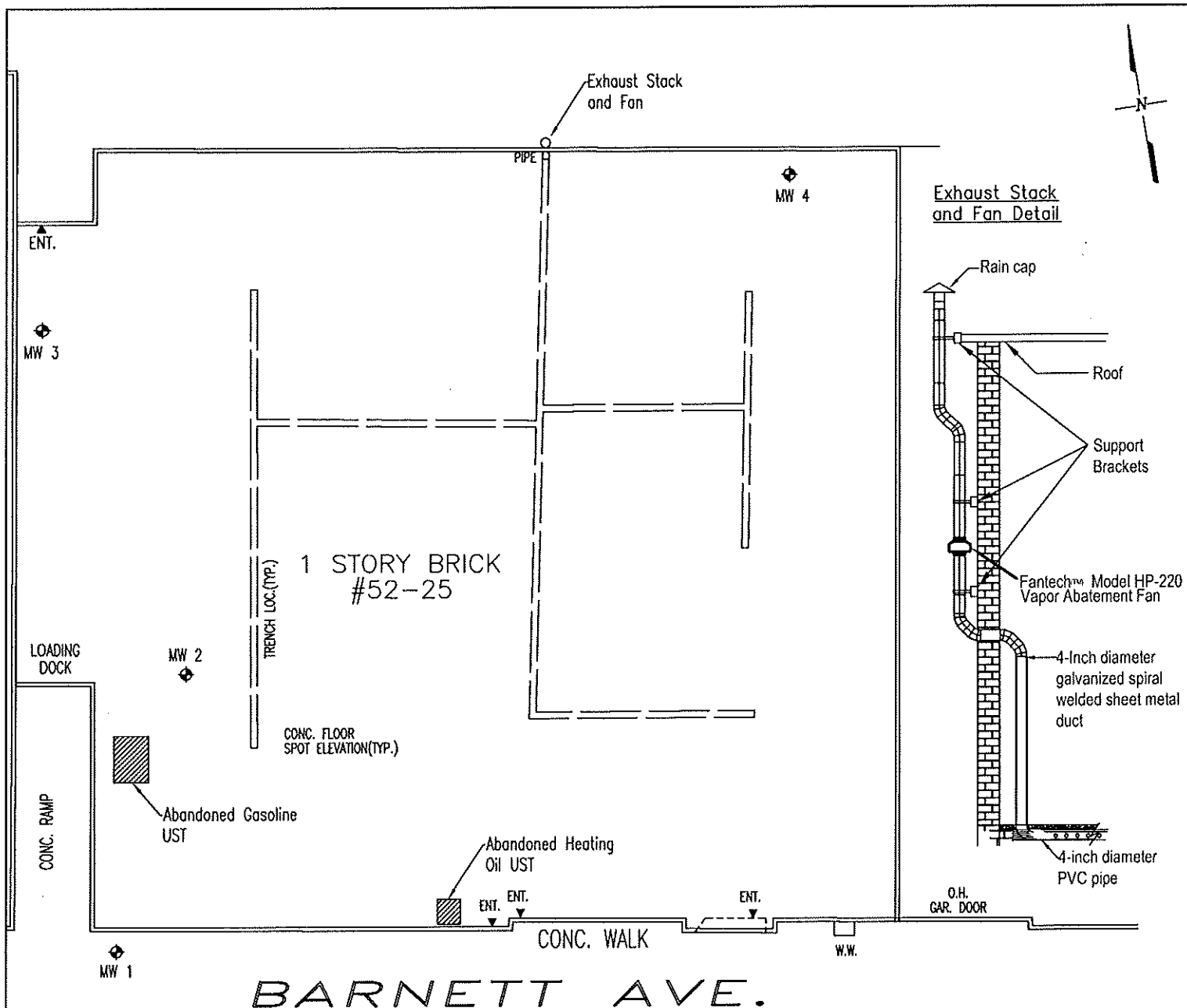
52-25 Barnett Avenue
Long Island City, NY

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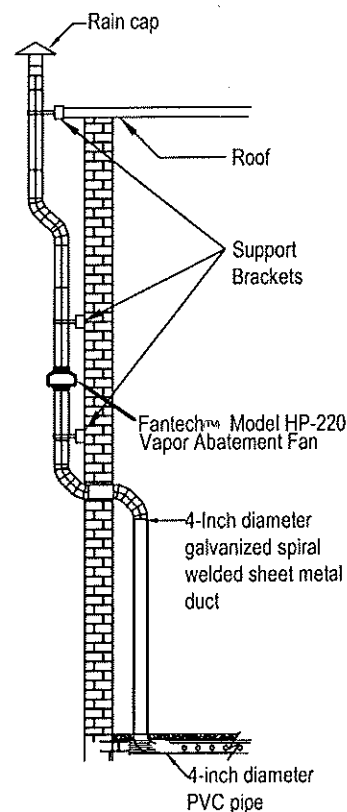
J.T.C.

APPR. BY:

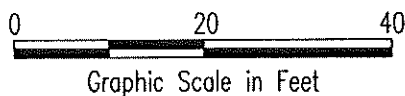
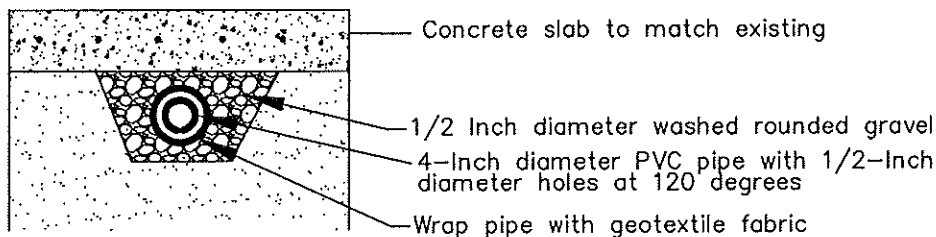
E.A.W.



Exhaust Stack and Fan Detail



Trench Detail



CA RICH CONSULTANTS, INC.

Certified Groundwater and Environmental Specialists
17 Dupont Street, Plainview, New York 11803

TITLE:

Details of Sub-Slab
Depressurization System

DATE:

5/11/2010

SCALE:

As Shown

FIGURE:

6

52-25 Barnett Avenue
Long Island City, NY

DRAWING NO:

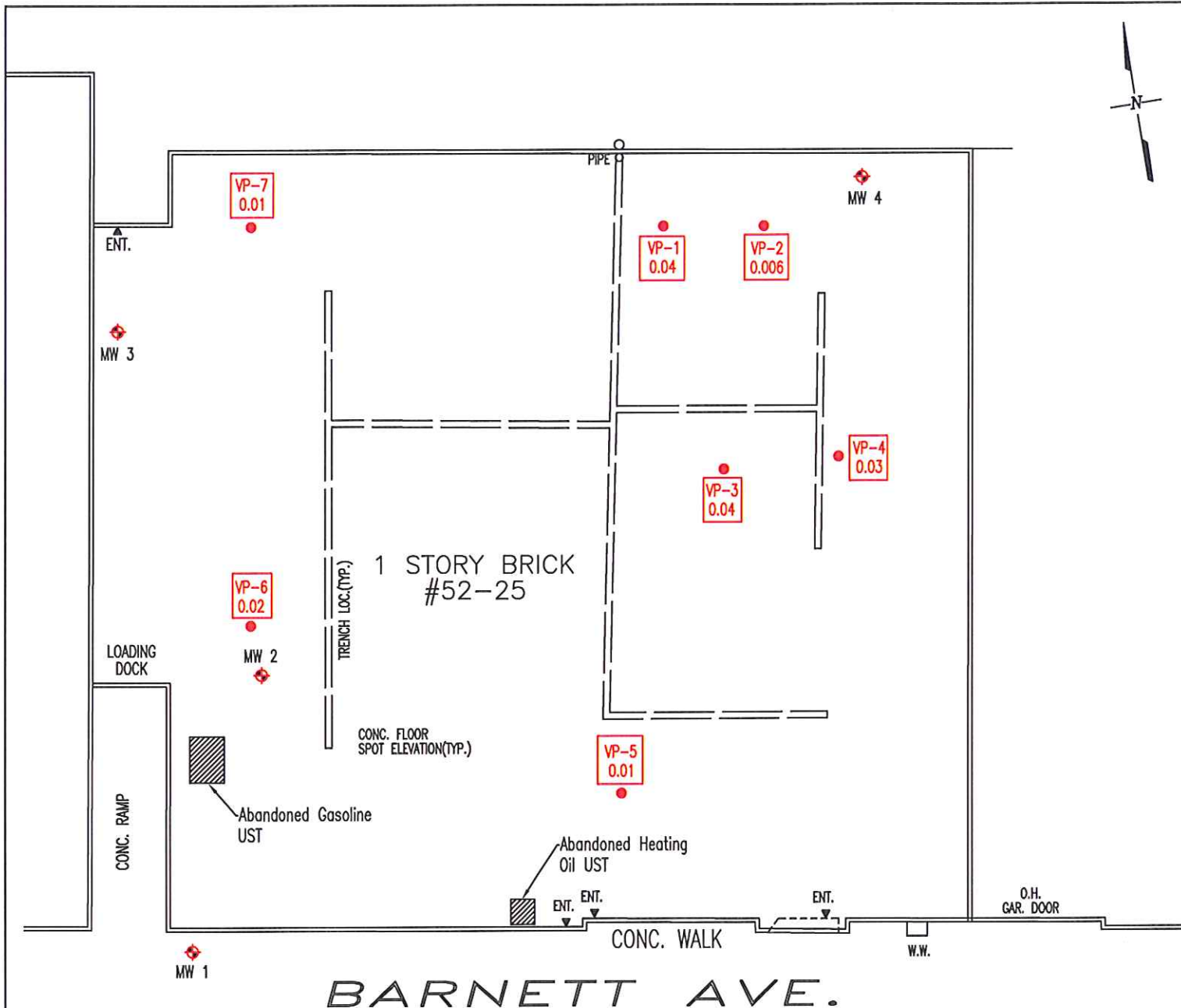
2010-5

DRAWN BY:

J.T.C.

APPR. BY:

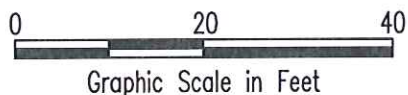
E.A.W.



Test 1
 Start Time: 09:30 End Time: 11:30
 Vacuum at Blower: 1 Inch of water
 Flow: 40 SCFM
 PID: 1 ppm

LEGEND

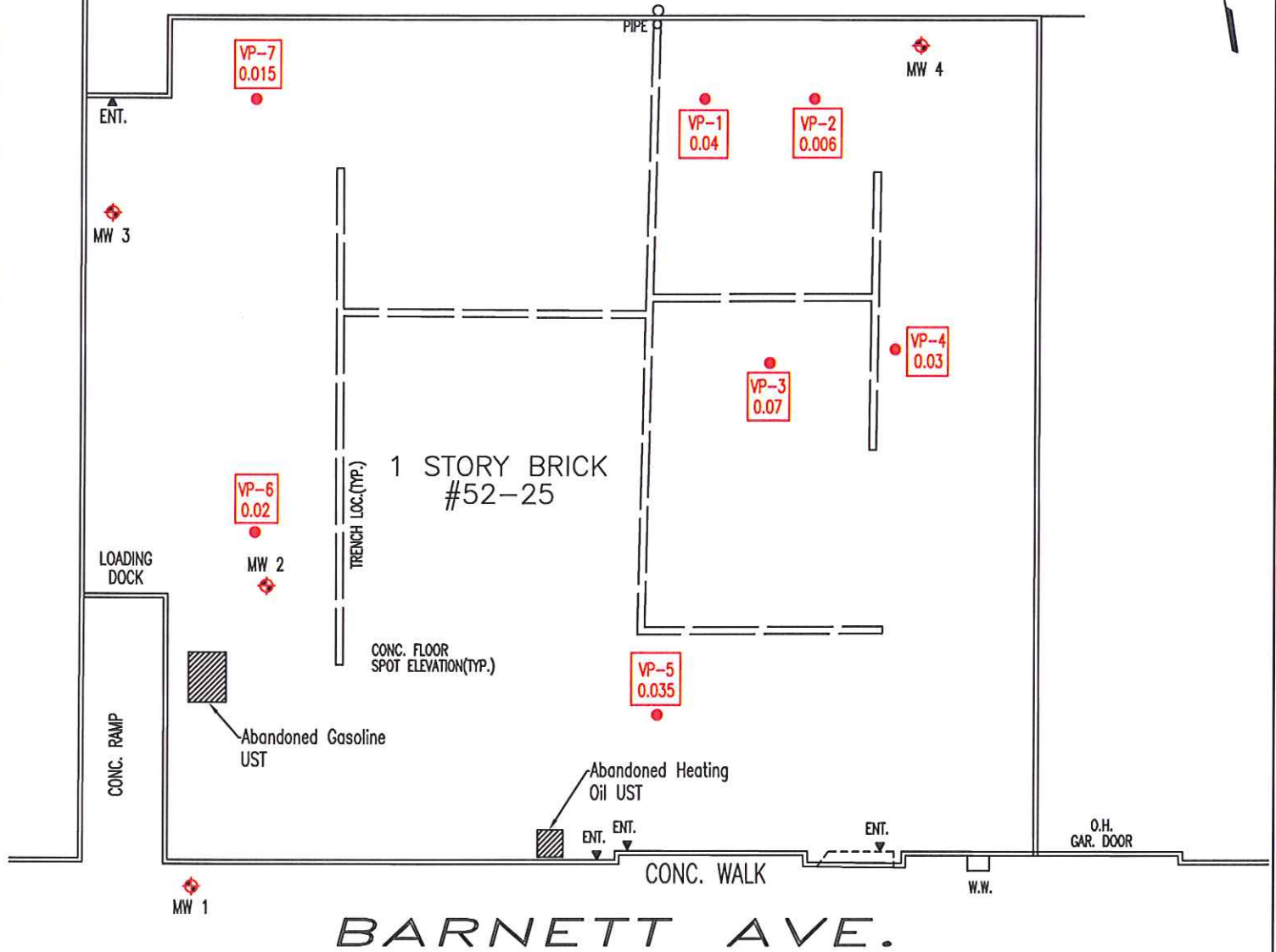
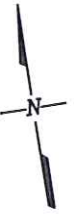
- ◆ Monitoring Well
- Temporary Vacuum Point with Readings in Inches of Water



CA RICH CONSULTANTS, INC.

Certified Groundwater and Environmental Specialists
 17 Dupont Street, Plainview, New York 11803

TITLE: SSD Pilot Test No. 1		DATE: 5/3/2010
FIGURE: 7		SCALE: As Shown
DRAWING NO: 2010-3	DRAWN BY: J.T.C.	
52-25 Barnett Avenue Long Island City, NY		APPR. BY: E.A.W.



Test 2

Start Time: 11:30 End Time: 12:15

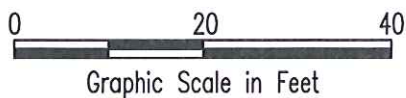
Vacuum at Blower: 2 Inches of water

Flow: 50 SCFM

PID: 1 ppm

LEGEND

- Monitoring Well
- Temporary Vacuum Point with Readings in Inches of Water



CA RICH CONSULTANTS, INC.

Certified Groundwater and Environmental Specialists
17 Dupont Street, Plainview, New York 11803

TITLE:

SSD Pilot Test No. 2

DATE:

5/3/2010

SCALE:

As Shown

FIGURE:

8

DRAWING NO:

2010-4

52-25 Barnett Avenue
Long Island City, NY

DRAWN BY:

J.T.C.

APPR. BY:

E.A.W.

<h1>TABLE</h1>

Table 1
52-25 Barnett Avenue, Long Island City, NY
Summary of VOC Detections in Groundwater

Sample ID: Media: Date:	MW-1 Water 4/14/2010	MW-2 Water 4/14/2010	MW-3 Water 4/14/2010	MW-4 Water 4/14/2010	Groundwater Standard*
Analyte Units					
1,1 Dichloroethane ug/L	< 1	< 1	< 1	< 1	NA
1,1 Dichloroethene ug/L	< 1	< 1	< 1	< 1	NA
1,1-Dichloropropene ug/L	< 1	< 1	< 1	< 1	NA
1,2 Dibromoethane ug/L	< 1	< 1	< 1	< 1	NA
1,2 Dichlorobenzene (v) ug/L	< 1	< 1	< 1	< 1	NA
1,2 Dichloroethane ug/L	< 1	< 1	< 1	< 1	NA
1,2 Dichloropropane ug/L	< 1	< 1	< 1	< 1	NA
1,3 Dichlorobenzene (v) ug/L	< 1	< 1	< 1	< 1	NA
1,3-Dichloropropane ug/L	< 1	< 1	< 1	< 1	NA
1,4 Dichlorobenzene (v) ug/L	< 1	< 1	< 1	< 1	NA
111 Trichloroethane ug/L	< 1	< 1	< 1	< 1	NA
1112Tetrachloroethane ug/L	< 1	< 1	< 1	< 1	NA
112 Trichloroethane ug/L	< 1	< 1	< 1	< 1	NA
1122Tetrachloroethane ug/L	< 1	< 1	< 1	< 1	NA
123-Trichlorobenzene ug/L	< 1	< 1	< 1	< 1	NA
123-Trichloropropane ug/L	< 1	< 1	< 1	< 1	NA
124-Trichlorobenzene (v) ug/L	< 1	< 1	< 1	< 1	NA
124-Trimethylbenzene ug/L	< 1	< 1	< 1	< 1	NA
1245 Tetramethylbenz ug/L	< 1	< 1	< 1	< 1	NA
135-Trimethylbenzene ug/L	< 1	< 1	< 1	< 1	NA
2,2-Dichloropropane ug/L	< 1	< 1	< 1	< 1	NA
2-Chlorotoluene ug/L	< 1	< 1	< 1	< 1	NA
4-Chlorotoluene ug/L	< 1	< 1	< 1	< 1	NA
Acetone ug/L	< 10	< 10	< 10	< 10	NA
Benzene ug/L	< 1	< 1	< 1	< 1	NA
Bromobenzene ug/L	< 1	< 1	< 1	< 1	NA
Bromochloromethane ug/L	< 1	< 1	< 1	< 1	NA
Bromodichloromethane ug/L	< 1	< 1	< 1	< 1	NA
Bromoform ug/L	< 1	< 1	< 1	< 1	NA
Bromomethane ug/L	< 1	< 1	< 1	< 1	NA
c-1,2-Dichloroethene ug/L	< 1	< 1	< 1	< 1	NA
c-1,3Dichloropropene ug/L	< 1	< 1	< 1	< 1	NA
Carbon Tetrachloride ug/L	< 1	< 1	< 1	< 1	NA
Chlorobenzene ug/L	< 1	< 1	< 1	< 1	NA
Chlorodibromomethane ug/L	< 1	< 1	< 1	< 1	NA
Chlorodifluoromethane ug/L	< 1	< 1	< 1	< 1	NA
Chloroethane ug/L	< 1	< 1	< 1	< 1	NA
Chloroform ug/L	< 1	< 1	< 1	< 1	NA
Chloromethane ug/L	< 1	< 1	< 1	< 1	NA
Dibromochloropropane ug/L	< 1	< 1	< 1	< 1	NA
Dibromomethane ug/L	< 1	< 1	< 1	< 1	NA
Dichlorodifluoromethane ug/L	< 1	< 1	< 1	< 1	NA
Ethyl Benzene ug/L	< 1	< 1	< 1	< 1	NA
Freon 113 ug/L	< 1	< 1	< 1	< 1	NA
Hexachlorobutadiene ug/L	< 1	< 1	< 1	< 1	NA
Isopropylbenzene ug/L	< 1	< 1	< 1	< 1	NA
m + p Xylene ug/L	< 2	< 2	< 2	< 2	NA
Methyl Ethyl Ketone ug/L	< 10	< 10	< 10	< 10	NA
Methylene Chloride ug/L	< 1	< 1	< 1	< 1	NA
Methylisobutylketone ug/L	< 10	< 10	< 10	< 10	NA
n-Butylbenzene ug/L	< 1	< 1	< 1	< 1	NA
n-Propylbenzene ug/L	< 1	< 1	< 1	< 1	NA
Naphthalene(v) ug/L	< 1	< 1	< 1	< 1	10
o Xylene ug/L	< 1	< 1	< 1	< 1	NA
p Diethylbenzene ug/L	< 1	< 1	< 1	< 1	NA
p-Ethyltoluene ug/L	< 1	< 1	< 1	< 1	NA
p-Isopropyltoluene ug/L	< 1	< 1	< 1	< 1	NA
sec-Butylbenzene ug/L	< 1	< 1	< 1	< 1	NA
Styrene ug/L	< 1	< 1	< 1	< 1	NA
t-1,2-Dichloroethene ug/L	< 1	< 1	< 1	< 1	NA
t-1,3Dichloropropene ug/L	< 1	< 1	< 1	< 1	NA
ter-ButylMethylEther ug/L	< 1	< 1	< 1	< 1	NA
tert-Butylbenzene ug/L	< 1	< 1	< 1	< 1	NA
Tetrachloroethene ug/L	36	21	39	< 1	5
Toluene ug/L	< 1	< 1	< 1	< 1	NA
Trichloroethene ug/L	< 1	< 1	< 1	< 1	NA
Trichlorofluoromethane ug/L	< 1	< 1	< 1	< 1	NA
Vinyl Chloride ug/L	< 1	< 1	< 1	< 1	NA

Notes: NA = Not applicable 36 = Detection exceeds standard

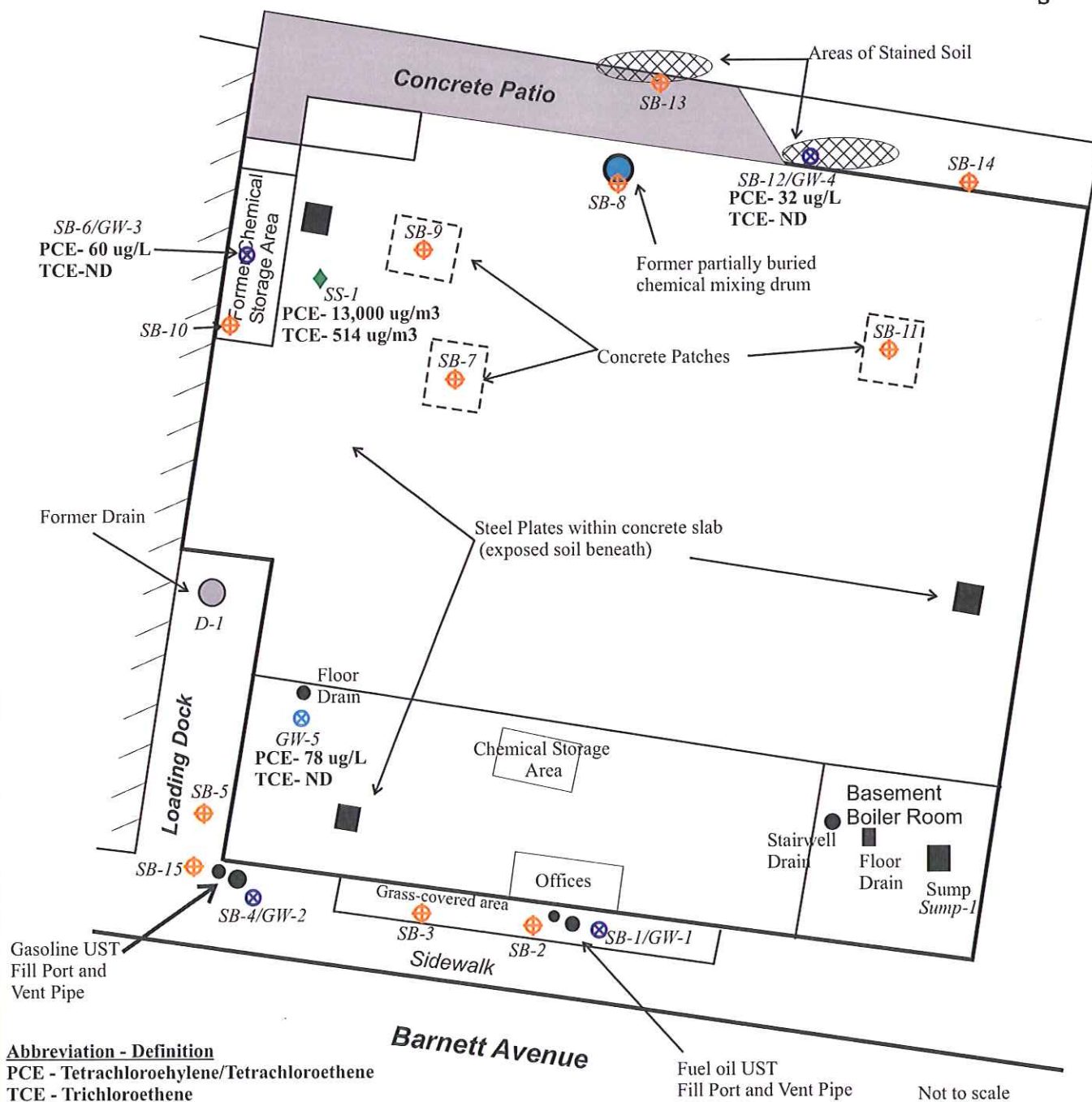
< = Not Detected

* = NYSDEC, October 22, 1993, Technical and Operational Guidance Series
(1.1.1) Ambient Water Quality Standards and Guidance Values.

Appendix A

Preferred Figure and Tables

Long Island Rail Road Tracks



Abbreviation - Definition

PCE - Tetrachloroethylene/Tetrachloroethene

TCE - Trichloroethene

ND - Not Detected Above Method Detection Limit

Figure 6 -Tetrachloroethylene and Trichloroethene Detected in Groundwater and Sub-Slab Vapor

- Soil Boring Location Only
- Groundwater Sample Location Only
- Soil Boring and Groundwater Sample Location
- Sub-Slab Soil Vapor Sample Location

Client: Steve Madden Ltd.
Site: 52-25 Barnett Avenue
Sunnyside, New York
Date: February 2010



PREFERRED ENVIRONMENTAL SERVICES

323 Merrick Avenue - North Merrick, New York 11566
Tel: (516) 546-1100 Fax: (516) 213-8156

Table 1
VOCs and RCRA Metals in Soil Samples
52-25 Barnett Avenue
Sunnyside, New York
January 2010

VOCs (ug/kg)	SB-5 14-16 ft.	SB-6 2-4 ft.	SB-8 4-6 ft.	SB-12 8-10 ft.	SB-13 6-8 ft.	SB-15 14-16 ft.	NYSDEC TAGM	
							EUSA BG	RSCO
1,2,4-Trimethylbenzene	ND	26	ND	15	ND	ND	NA	10,000
1,3,5-Trimethylbenzene	ND	15	ND	12	ND	ND	NA	3,300
Benzene	ND	ND	ND	ND	ND	ND	NA	60 or MDL
Ethylbenzene	ND	ND	ND	ND	ND	ND	NA	5,500
Isopropylbenzene	ND	ND	ND	ND	ND	ND	NA	2,300
Methyl tert-butyl ether (MTBE)	ND	ND	ND	ND	ND	ND	NA	120
Naphthalene	ND	ND	ND	ND	ND	ND	NA	13,000
n-Butylbenzene	ND	ND	ND	ND	ND	ND	NA	10,000
n-Propylbenzene	ND	ND	ND	ND	ND	ND	NA	3,700
o-Xylene	ND	ND	ND	ND	ND	ND	NA	1,200
m,p-Xylene	ND	ND	ND	ND	ND	ND	NA	1,200
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	NA	10,000
tert-Butylbenzene	ND	ND	ND	ND	ND	ND	NA	10,000
Tetrachloroethylene	NA	110	ND	ND	ND	NA	NA	1,400
Toluene	ND	ND	ND	ND	ND	ND	NA	1,500
Total RCRA Metals (mg/Kg)	SB-5 14-16 ft.	SB-6 2-4 ft.	SB-8 4-6 ft.	SB-12 8-10 ft.	SB-13 6-8 ft.	SB-15 14-16 ft.	NYSDEC TAGM	
							EUSA BG	RSCO
Arsenic, total	NA	8.25	2.02	2.23	1.74	NA	3 to 12	7.5 or SB
Barium, total	NA	42.2	31.9	35.3	38.4	NA	15 to 600	300 or SB
Cadmium, total	NA	ND	ND	ND	ND	NA	0.1 to 1	1 or SB
Chromium, total	NA	102	11.6	12.9	11.6	NA	1.5 to 40	50 or SB
Lead, total	NA	73.9	6.43	3.82	6.23	NA	200 to 500	400
Selenium, total	NA	ND	ND	ND	ND	NA	0.1 to 3.9	2 or SB
Silver, total	NA	ND	ND	ND	ND	NA	NA	SB
Mercury, total	NA	ND	ND	ND	ND	NA	0.001 to 0.2	0.1

Notes:
NYSDEC TAGM - Recommended Soil Cleanup Objectives (RSCO),
HWR-94-4046, Revised 4/95 and 2001 update.
RSCO - Recommended Soil Cleanup Objective.
EUSA BG - Eastern USA Background
Bolded values indicates detected concentration exceeded NYSDC RSCO and applicable eastern US background concentration.
NA - Not Analyzed / Not Available.
ND - Analyte was not detected above method detection limit.
SB - Site Background.
Italicized and underlined values indicate metal was detected above RSCO but below eastern US background concentration.

Table 2
VOCs, SVOCs and Metals in Groundwater Samples
 52-25 Barnett Avenue
 Sunnyside, New York
 January 2010

VOCs (ug/L)	GW-1 24-26 ft.	GW-2 24-26 ft.	GW-3 24-26 ft.	GW-4 26.5-28.5 ft.	GW-5 24-26 ft.	NYSDEC Class GA Ambient Water Quality	
						Standard	Guidance Value
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	5	NA
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	5	NA
Benzene	ND	ND	ND	ND	ND	1	NA
Ethylbenzene	ND	ND	ND	ND	ND	5	NA
Isopropylbenzene	ND	ND	ND	ND	ND	5	NA
Methyl tert-butyl ether (MTBE)	ND	ND	ND	ND	ND	NA	10
Naphthalene	ND	ND	ND	ND	ND	NA	10
n-Butylbenzene	ND	ND	ND	ND	ND	5	NA
n-Propylbenzene	ND	ND	ND	ND	ND	5	NA
o-Xylene	ND	ND	ND	ND	ND	5	NA
m,p-Xylene	ND	ND	ND	ND	ND	5	NA
p-Isopropyltoluene	ND	ND	ND	ND	ND	5	NA
sec-Butylbenzene	ND	ND	ND	ND	ND	5	NA
tert-Butylbenzene	ND	ND	ND	ND	ND	5	NA
Tetrachloroethylene	NA	NA	60	32	78	5	NA
Toluene	ND	ND	ND	ND	ND	5	NA
NYSDEC STARS SVOCs (ug/L)	GW-1 24-26 ft.	GW-2 24-26 ft.	GW-3 24-26 ft.	GW-4 26.5-28.5 ft.	GW-5 24-26 ft.	NYSDEC Class GA Ambient Water Quality	
						Standard	Guidance Value
Acenaphthene	ND	NA	NA	NA	NA	NA	20
Acenaphthylene	ND	NA	NA	NA	NA	NA	20
Anthracene	ND	NA	NA	NA	NA	NA	50
Benzo(a)anthracene	ND	NA	NA	NA	NA	NA	0.002
Benzo(a)pyrene	ND	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ND	NA	NA	NA	NA	NA	0.002
Benzo(g,h,i)perylene	ND	NA	NA	NA	NA	NA	5
Benzo(k)fluoranthene	ND	NA	NA	NA	NA	NA	0.002
Chrysene	ND	NA	NA	NA	NA	NA	0.002
Dibenzo(a,h)anthracene	ND	NA	NA	NA	NA	NA	50
Fluoranthene	ND	NA	NA	NA	NA	NA	50
Fluorene	ND	NA	NA	NA	NA	NA	50
Indeno(1,2,3-c,d)pyrene	ND	NA	NA	NA	NA	NA	0.002
Phenanthrene	ND	NA	NA	NA	NA	NA	50
Pyrene	ND	NA	NA	NA	NA	NA	50
Total RCRA Metals (mg/L)	GW-1 24-26 ft.	GW-2 24-26 ft.	GW-3	GW-4 26.5-28.5 ft.	GW-5 24-26 ft.	NYSDEC Class GA Ambient Water Quality	
						Standard	Guidance Value
Arsenic, total	NA	NA	ND	0.005	ND	0.025	NA
Barium, total	NA	NA	0.503	0.934	0.867	0.010	NA
Cadmium, total	NA	NA	ND	ND	ND	0.005	NA
Chromium, total	NA	NA	0.112	0.170	0.189	0.050	NA
Lead, total	NA	NA	0.060	0.078	0.063	0.025	NA
Selenium, total	NA	NA	ND	ND	ND	0.010	NA
Silver, total	NA	NA	ND	ND	ND	0.050	NA
Mercury, total	NA	NA	0.0002	0.0004	0.0002	0.0007	NA
Dissolved RCRA Metals (mg/L)	GW-1 24-26 ft.	GW-2 24-26 ft.	GW-3	GW-4 26.5-28.5 ft.	GW-5 24-26 ft.	NYSDEC Class GA Ambient Water Quality	
						Standard	Guidance Value
Arsenic, dissolved	NA	NA	ND	ND	ND	0.025	NA
Barium, dissolved	NA	NA	0.327	0.010	0.018	0.010	NA
Cadmium, dissolved	NA	NA	ND	ND	ND	0.005	NA
Chromium, dissolved	NA	NA	0.010	ND	ND	0.050	NA
Lead, dissolved	NA	NA	ND	ND	ND	0.025	NA
Selenium, dissolved	NA	NA	ND	ND	ND	0.010	NA
Silver, dissolved	NA	NA	ND	ND	ND	0.050	NA
Mercury, dissolved	NA	NA	ND	ND	ND	0.0007	NA

Notes:

NYSDEC Class GA Ambient Water Quality Standards and Guidance Values,

Reissued June 1998, Addendums April 2000 and June 2004

ND - Analyte was not detected above method detection limit.

NA - Not Analyzed/Not Available

Bolded values indicates detected concentration exceeded NYSDEC Class GA Ambient Water Quality Standards and Guidance Values.

Table 3
Summary of Volatile Organic Compounds Detected and/or Elevated Above NYSDOH Air Guidance Values
52-25 Barnett Avenue
Sunnyside, New York
January 21, 2010

Cas #	Sampling Date: Project Location: Sample ID: Laboratory ID:		1/21/2010 52-25 Barnett Avenue SS-1 1001708-001A	Qualifier	NYSDOH Study		NYSDOH Air Guidance Values (Specific to Indoor Air)
					Homes in NYS 1997 - 2003		
	Indoor: 25% to 75%	Outdoor: 25% to 75%					
Analyte	Units:						
74-87-3	Chloromethane	ug/m3	ND		<0.25 - 1.8	<0.25 - 1.8	NA
75-01-4	Vinyl Chloride	ug/m3	ND		<0.25	<0.25	NA
75-00-3	Chloroethane	ug/m3	ND		<0.25	<0.25	NA
75-35-4	1,1-Dichloroethene	ug/m3	ND		<0.25	<0.25	NA
95-63-6	1,2,4-Trimethylbenzene	ug/m3	ND		0.69 - 4.3	<0.25 - 0.81	NA
108-76-8	1,3,5-Trimethylbenzene	ug/m3	ND		<0.27 - 1.7	< 0.25 -0.34	NA
67-64-1	Acetone	ug/m3	40.4		9.9 - 52	3.4 - 14	NA
75-15-0	Carbon Disulfide	ug/m3	ND		NA	NA	NA
75-09-2	Methylene Chloride	ug/m3	11.1		0.31 - 6.6	<0.25 - 0.73	60
1634-04-4	Methyl tert-butyl ether	ug/m3	ND		<0.25 - 5.6	<0.25 - 0.86	NA
75-34-3	1,1-Dichloroethane	ug/m3	ND		<0.25	<0.25	NA
67-66-3	Chloroform	ug/m3	ND		<0.25 - 0.54	<0.25	NA
71-55-6	1,1,1-Trichloroethane	ug/m3	ND		<0.25 - 1.1	<0.25 - 0.33	NA
56-23-5	Carbon Tetrachloride	ug/m3	ND		<0.25 - 0.59	<0.25 - 0.6	NA
71-43-2	Benzene	ug/m3	ND		1.1 - 5.9	0.57 - 2.3	NA
106-93-4	1,2-Dibromoethane	ug/m3	ND		<0.25 - <0.25	<0.25 - <0.25	NA
107-06-2	1,2-Dichloroethane	ug/m3	ND		<0.25	<0.25	NA
79-01-6	Trichloroethene	ug/m3	514		<0.25	<0.25	5
78-87-5	1,2-Dichloropropane	ug/m3	ND		<0.25	<0.25	NA
75-27-4	Bromodichloromethane	ug/m3	ND		NA	NA	NA
156-59-2	cis-1,2-Dichloroethene	ug/m3	ND		<0.25	<0.25	NA
10061-01-5	cis-1,3-Dichloropropene	ug/m3	ND		<0.25	<0.25	NA
108-10-1	Methyl Isobutyl Ketone	ug/m3	ND		<0.25 - 0.86	<0.25 - <0.25	NA
78-93-3	Methyl Ethyl Ketone	ug/m3	ND		1.4 - 7.3	0.76 - 2.6	NA
108-88-3	Toluene	ug/m3	12.4		3.5 - 24.8	0.60 - 2.4	NA
156-60-5	trans-1,2-Dichloroethene	ug/m3	ND		NA	NA	NA
10061-02-6	trans-1,3-Dichloropropene	ug/m3	ND		<0.25	<0.25	NA
79-00-5	1,1,2-Trichloroethane	ug/m3	ND		<0.25	<0.25	NA
127-18-4	Tetrachloroethene	ug/m3	13,000	D	<0.25 - 1.1	<0.25 - 0.34	100
591-78-6	Methyl Butyl Ketone	ug/m3	ND		NA	NA	NA
124-48-1	Dibromochloromethane	ug/m3	ND		NA	NA	NA
75-71-8	Dichlorodifluoromethane	ug/m3	ND		<0.25 - 4.1	<0.25 - 4.2	NA
108-90-7	Chlorobenzene	ug/m3	ND		<0.25	<0.25	NA
100-41-4	Ethylbenzene	ug/m3	ND		0.41 - 2.8	<0.25 - 0.48	NA
1330-20-7	m/p-Xylene	ug/m3	13.0		0.50 - 4.6	<0.25 - 0.48	NA
95-47-6	o-Xylene	ug/m3	ND		0.39 - 3.1	<0.25 - 0.56	NA
100-42-5	Styrene	ug/m3	ND		0.25 - 0.64	<0.25	NA
75-25-2	Bromoform	ug/m3	ND		NA	NA	NA
75-69-4	Trichlorofluoromethane	ug/m3	ND		1.1 - 5.4	<0.25 - 2.2	NA
106-46-7	1,4-Dichlorobenzene	ug/m3	ND		<0.25 - 0.54	<0.25	NA
79-34-5	1,1,2,2-Tetrachloroethane	ug/m3	ND		<0.25	<0.25	NA

Notes:

NYSDOH Study is the *Summary of Indoor and Outdoor Levels of Volatile Organic Compounds From Fuel Oil Heated Home in NYS, 1997 to 2003*.

Unpublished. New York State Department of Health, Bureau of Toxic Substance Assessment

The NYSDOH Air Guidelines Values are provided in the *NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York 2006*

ug/m3 - micrograms per cubic meter

ND - Analyte not detected at concentration exceeding method detection limit

Bolded and highlighted value indicates that the VOC was detected at a concentration exceeding its NYSDOH AGV.

NA - Not Available/Not Analyzed

D- Results for Dilution

Appendix B

Soil Boring Logs and Well Construction Diagrams

CA RICH Consultants, Inc.
Environmental Specialists
17 Dupont Street, Plainview, NY 11803

FIELD BORING LOG

BOREHOLE NO.: **MW-1**

TOTAL DEPTH: **35**

PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	Sun/Asia Offset & Lith	DRILLING CO.:	ADT
SITE LOCATION:	52-25 Barnett, LIC, NY	DRILLER:	Tony
JOB NO.:	Sun/52-25 Barnett/SSD	RIG TYPE:	CME LC55
LOGGED BY:	Mike Yager	METHOD OF DRILLING:	4-inch hollow stem augers
PROJECT MANAGER:	Eric Weinstock	SAMPLING METHODS:	Split barrel core samples
DATES DRILLED:	4/6/2010	HAMMER WT./DROP	140 lb., 30 in.

≡ Water level in well

DEPTH	SOIL TYPE	SOIL DESCRIPTION	SAMPLE NUMBER	Blows per ft.	PID ppm	BORING COMPLETION	WELL DESCRIPTION
0							Cover
							Concrete
5			MW-1 (5-7)	1,1,1,1			
10			MW-1 (10-12)	6,5,2,2			Soil
15			MW-1 (15-17)	10,12,5,5			Sch. 40 PVC
20			MW-1 (20-22)	3,2,2,2			Bentonite seal
25			MW-1 (25-27)	11,12,11,20			No. 2 Sand
30							20 Slot Sch. 40 PVC
35			MW-1 (33-35)	NA			

NOTES: Developed with Waterra pump & surge block, 60 gals. removed on 4/8/10 Page 1 of 1

CA RICH Consultants, Inc.

Environmental Specialists

17 Dupont Street, Plainview, NY 11803

FIELD BORING LOG

BOREHOLE NO.: MW-2

TOTAL DEPTH: 35

PROJECT INFORMATION

PROJECT: Sun/Asia Offset & Lith
SITE LOCATION: 52-25 Barnett, LIC, NY
JOB NO.: Sun/52-25 Barnett/SSD
LOGGED BY: Mike Yager
PROJECT MANAGER: Eric Weinstock
DATES DRILLED: 4/7/2010

DRILLING INFORMATION

DRILLING CO.: ADT
DRILLER: Tony
RIG TYPE: CME LC55
METHOD OF DRILLING: 4-inch hollow stem augers
SAMPLING METHODS: Logged auger cuttings
HAMMER WT./DROP 140 lb., 30 in.

▽ Water level in well

DEPTH	SOIL TYPE	SOIL DESCRIPTION	SAMPLE NUMBER	Blows per ft.	PID ppm	BORING COMPLETION	WELL DESCRIPTION
0		Sand and Gravel: Dark brown medium sand with some gravel & cobbles					Cover
5							Concrete
10		Sand and Gravel: Brown medium sand with gravel, cobbles & rock					Soil
15							Sch. 40 PVC
18		Sand and Gravel: Brown tan medium sand with some gravel & cobbles					Bentonite seal
20							
25		Sand and Gravel: Brown tan coarse sand with some gravel					No. 2 Sand
30							20 Slot Sch. 40 PVC
35							

NOTES: Developed with Waterra pump & surge block, 60 gals. removed on 4/8/10 Page 1 of 1

CA RICH Consultants, Inc.

Environmental Specialists

17 Dupont Street, Plainview, NY 11803

FIELD BORING LOG

BOREHOLE NO.: MW-3

TOTAL DEPTH: 35

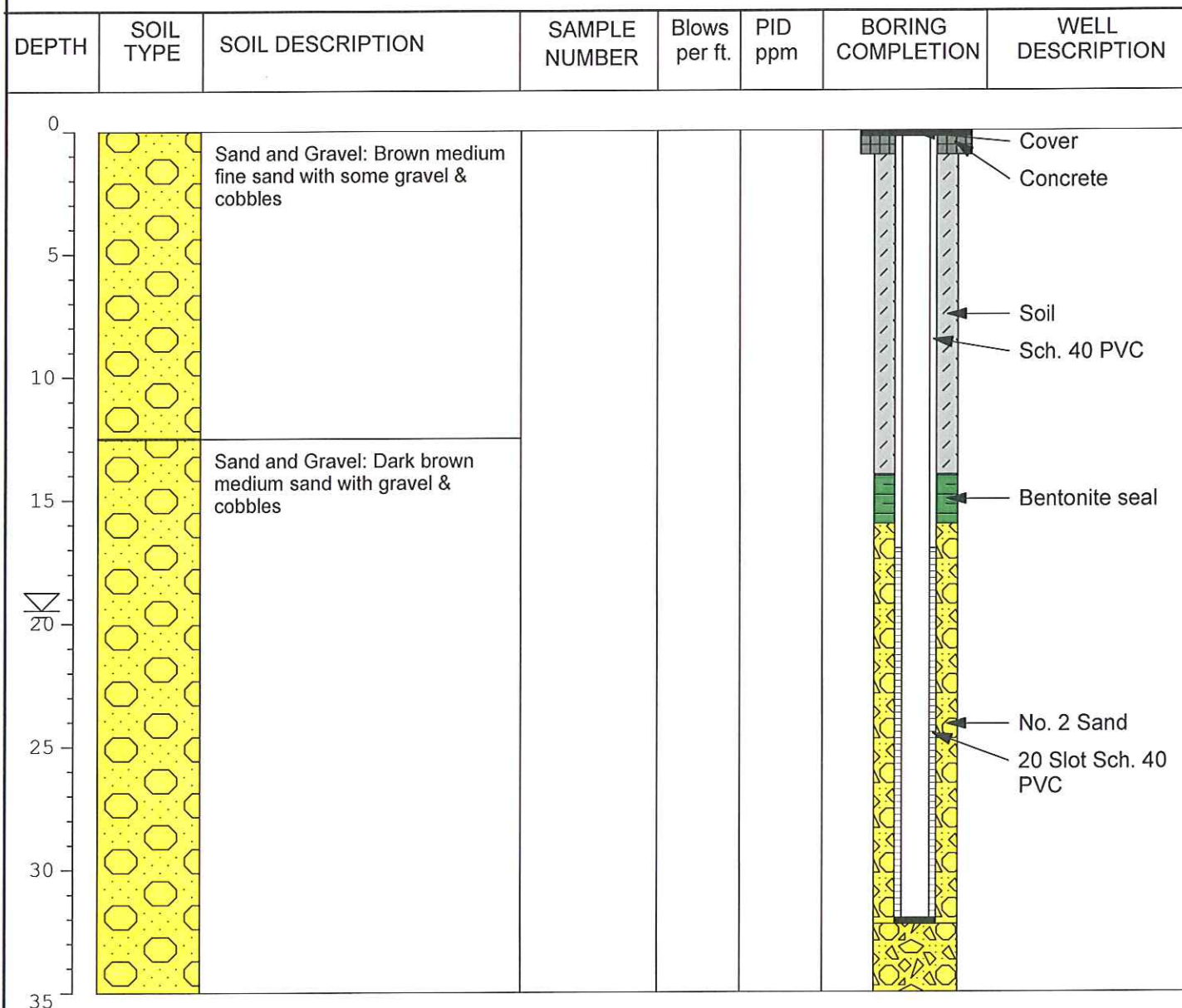
PROJECT INFORMATION

PROJECT: Sun/Asia Offset & Lith
SITE LOCATION: 52-25 Barnett, LIC, NY
JOB NO.: Sun/52-25 Barnett/SSD
LOGGED BY: Mike Yager
PROJECT MANAGER: Eric Weinstock
DATES DRILLED: 4/8/2010

DRILLING INFORMATION

DRILLING CO.: ADT
DRILLER: Tony
RIG TYPE: Davey 527
METHOD OF DRILLING: 4-inch hollow stem augers
SAMPLING METHODS: Logged auger cuttings
HAMMER WT./DROP 140 lb., 30 in.

☒ Water level in well



FIELD BORING LOG

BOREHOLE NO.: **MW-4**

TOTAL DEPTH: **35**

PROJECT INFORMATION

PROJECT: **Sun/Asia Offset & Lith**
SITE LOCATION: **52-25 Barnett, LIC, NY**
JOB NO.: **Sun/52-25 Barnett/SSD**
LOGGED BY: **Mike Yager**
PROJECT MANAGER: **Eric Weinstock**
DATES DRILLED: **4/7/2010**

DRILLING INFORMATION

DRILLING CO.: **ADT**
DRILLER: **Tony**
RIG TYPE: **CME LC55**
METHOD OF DRILLING: **4-inch hollow stem augers**
SAMPLING METHODS: **Logged auger cuttings**
HAMMER WT./DROP **140 lb., 30 in.**

≡ Water level in well

DEPTH	SOIL TYPE	SOIL DESCRIPTION	SAMPLE NUMBER	Blows per ft.	PID ppm	BORING COMPLETION	WELL DESCRIPTION
0							Cover
							Concrete
5							Soil
							Sch. 40 PVC
10							Bentonite seal
15							
20							No. 2 Sand
25							20 Slot Sch. 40 PVC
30							
35							

Appendix C

Laboratory Results

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777 • FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.101554.01

04/19/10

G.A. Rich Consultants, Incorporated
17 Dupont Street
Plainview, NY 11803

ATTN: Eric Weinstock

PO#:

SOURCE OF SAMPLE: SUN 52-25 Barnett Avenue, LIC, #SUN-LIC, NY

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/14/10 RECEIVED:04/15/10

TIME COL'D:0908

MATRIX:Water SAMPLE: MW-1

ANALYTICAL PARAMETERS	UNITS	RESULT	DATE TIME	FLAG OF ANALYSIS	LRL	ANALYTICAL METHOD
Dichlorodifluoromethane	ug/L	< 1	041610		1	EPA8260
Chloromethane	ug/L	< 1	041610		1	EPA8260
Vinyl Chloride	ug/L	< 1	041610		1	EPA8260
Bromomethane	ug/L	< 1	041610		1	EPA8260
Chloroethane	ug/L	< 1	041610		1	EPA8260
Trichlorofluoromethane	ug/L	< 1	041610		1	EPA8260
1,1 Dichloroethene	ug/L	< 1	041610		1	EPA8260
Methylene Chloride	ug/L	< 1	041610		1	EPA8260
t-1,2-Dichloroethene	ug/L	< 1	041610		1	EPA8260
1,1 Dichloroethane	ug/L	< 1	041610		1	EPA8260
2,2-Dichloropropane	ug/L	< 1	041610		1	EPA8260
c-1,2-Dichloroethene	ug/L	< 1	041610		1	EPA8260
Bromochloromethane	ug/L	< 1	041610		1	EPA8260
Chloroform	ug/L	< 1	041610		1	EPA8260
111 Trichloroethane	ug/L	< 1	041610		1	EPA8260
Carbon Tetrachloride	ug/L	< 1	041610		1	EPA8260
1,1-Dichloropropene	ug/L	< 1	041610		1	EPA8260
Benzene	ug/L	< 1	041610		1	EPA8260
1,2 Dichloroethane	ug/L	< 1	041610		1	EPA8260
Trichloroethene	ug/L	< 1	041610		1	EPA8260
1,2 Dichloropropane	ug/L	< 1	041610		1	EPA8260
Dibromomethane	ug/L	< 1	041610		1	EPA8260
Bromodichloromethane	ug/L	< 1	041610		1	EPA8260
c-1,3Dichloropropene	ug/L	< 1	041610		1	EPA8260
Toluene	ug/L	< 1	041610		1	EPA8260

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 8816

NYSDOH ID # 10320

Page 1 of 3

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777 • FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.101554.01

04/19/10

C.A. Rich Consultants, Incorporated
17 Dupont Street
Plainview, NY 11803

ATTN: Eric Weinstock

PO#:

SOURCE OF SAMPLE: SUN 52-25 Barnett Avenue, LIC, #SUN-LIC, NY

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/14/10 RECEIVED:04/15/10

TIME COL'D:0908

MATRIX:Water SAMPLE: MW-1

ANALYTICAL PARAMETERS	UNITS	RESULT	DATE TIME	FLAG OF ANALYSIS	LRL	ANALYTICAL METHOD
t-1,3Dichloropropene	ug/L	< 1	041610		1	EPA8260
112 Trichloroethane	ug/L	< 1	041610		1	EPA8260
Tetrachloroethene	ug/L	36	041610		1	EPA8260
1,3-Dichloropropane	ug/L	< 1	041610		1	EPA8260
Chlorodibromomethane	ug/L	< 1	041610		1	EPA8260
1,2 Dibromoethane	ug/L	< 1	041610		1	EPA8260
Chlorobenzene	ug/L	< 1	041610		1	EPA8260
Ethyl Benzene	ug/L	< 1	041610		1	EPA8260
1112Tetrachloroethane	ug/L	< 1	041610		1	EPA8260
m + p Xylene	ug/L	< 2	041610		2	EPA8260
o Xylene	ug/L	< 1	041610		1	EPA8260
Styrene	ug/L	< 1	041610		1	EPA8260
Bromoform	ug/L	< 1	041610		1	EPA8260
Isopropylbenzene	ug/L	< 1	041610		1	EPA8260
Bromobenzene	ug/L	< 1	041610		1	EPA8260
1122Tetrachloroethane	ug/L	< 1	041610		1	EPA8260
123-Trichloropropane	ug/L	< 1	041610		1	EPA8260
n-Propylbenzene	ug/L	< 1	041610		1	EPA8260
2-Chlorotoluene	ug/L	< 1	041610		1	EPA8260
135-Trimethylbenzene	ug/L	< 1	041610		1	EPA8260
4-Chlorotoluene	ug/L	< 1	041610		1	EPA8260
tert-Butylbenzene	ug/L	< 1	041610		1	EPA8260
124-Trimethylbenzene	ug/L	< 1	041610		1	EPA8260
sec-Butylbenzene	ug/L	< 1	041610		1	EPA8260
p-Isopropyltoluene	ug/L	< 1	041610		1	EPA8260

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 8817

NYSDOH ID # 10320

Page 2 of 3

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777 • FAX (631) 422-5770

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LAB NO.101554.01

04/19/10

C.A. Rich Consultants, Incorporated
17 Dupont Street
Plainview, NY 11803

ATTN: Eric Weinstock

PO#:

SOURCE OF SAMPLE: SUN 52-25 Barnett Avenue, LIC, #SUN-LIC, NY

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/14/10 RECEIVED:04/15/10

TIME COL'D:0908

MATRIX:Water SAMPLE: MW-1

ANALYTICAL PARAMETERS	UNITS	RESULT	DATE TIME	FLAG OF ANALYSIS	LRL	ANALYTICAL METHOD
1,3 Dichlorobenzene (v)	ug/L	< 1	041610		1	EPA8260
1,4 Dichlorobenzene (v)	ug/L	< 1	041610		1	EPA8260
n-Butylbenzene	ug/L	< 1	041610		1	EPA8260
1,2 Dichlorobenzene (v)	ug/L	< 1	041610		1	EPA8260
Dibromochloropropane	ug/L	< 1	041610		1	EPA8260
124-Trichlorobenzene (v)	ug/L	< 1	041610		1	EPA8260
Hexachlorobutadiene	ug/L	< 1	041610		1	EPA8260
Naphthalene(v)	ug/L	< 1	041610		1	EPA8260
123-Trichlorobenzene	ug/L	< 1	041610		1	EPA8260
ter. ButylMethylEther	ug/L	< 1	041610		1	EPA8260
p-Ethyltoluene	ug/L	< 1	041610		1	EPA8260
Freon 113	ug/L	< 1	041610		1	EPA8260
1245 Tetramethylbenz	ug/L	< 1	041610		1	EPA8260
Acetone	ug/L	< 10	041610		10	EPA8260
Methyl Ethyl Ketone	ug/L	< 10	041610		10	EPA8260
Methylisobutylketone	ug/L	< 10	041610		10	EPA8260
Chlorodifluoromethane	ug/L	< 1	041610		1	EPA8260
p Diethylbenzene	ug/L	< 1	041610		1	EPA8260

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR



rn = 8818

NYSDOH ID # 10320

Page 3 of 3

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777 • FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.101554.02

04/19/10

C.A. Rich Consultants, Incorporated
17 Dupont Street
Plainview, NY 11803

ATTN: Eric Weinstock

PO#:

SOURCE OF SAMPLE: SUN 52-25 Barnett Avenue, LIC, #SUN-LIC, NY

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/14/10 RECEIVED:04/15/10

TIME COL'D:1147

MATRIX:Water SAMPLE: MW-2

ANALYTICAL PARAMETERS	UNITS	RESULT	DATE TIME FLAG OF ANALYSIS	LRL	ANALYTICAL METHOD
Dichlorodifluoromethane	ug/L	< 1	041610	1	EPA8260
Chloromethane	ug/L	< 1	041610	1	EPA8260
Vinyl Chloride	ug/L	< 1	041610	1	EPA8260
Bromomethane	ug/L	< 1	041610	1	EPA8260
Chloroethane	ug/L	< 1	041610	1	EPA8260
Trichlorofluoromethane	ug/L	< 1	041610	1	EPA8260
1,1 Dichloroethene	ug/L	< 1	041610	1	EPA8260
Methylene Chloride	ug/L	< 1	041610	1	EPA8260
t-1,2-Dichloroethene	ug/L	< 1	041610	1	EPA8260
1,1 Dichloroethane	ug/L	< 1	041610	1	EPA8260
2,2-Dichloropropane	ug/L	< 1	041610	1	EPA8260
c-1,2-Dichloroethene	ug/L	< 1	041610	1	EPA8260
Bromochloromethane	ug/L	< 1	041610	1	EPA8260
Chloroform	ug/L	< 1	041610	1	EPA8260
111 Trichloroethane	ug/L	< 1	041610	1	EPA8260
Carbon Tetrachloride	ug/L	< 1	041610	1	EPA8260
1,1-Dichloropropene	ug/L	< 1	041610	1	EPA8260
Benzene	ug/L	< 1	041610	1	EPA8260
1,2 Dichloroethane	ug/L	< 1	041610	1	EPA8260
Trichloroethene	ug/L	< 1	041610	1	EPA8260
1,2 Dichloropropane	ug/L	< 1	041610	1	EPA8260
Dibromomethane	ug/L	< 1	041610	1	EPA8260
Bromodichloromethane	ug/L	< 1	041610	1	EPA8260
c-1,3Dichloropropene	ug/L	< 1	041610	1	EPA8260
Toluene	ug/L	< 1	041610	1	EPA8260

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 8819

NYSDOH ID # 10320

Page 1 of 3

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777 • FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.101554.02

04/19/10

G.A. Rich Consultants, Incorporated
17 Dupont Street
Plainview, NY 11803

ATTN: Eric Weinstock

PO#:

SOURCE OF SAMPLE: SUN 52-25 Barnett Avenue, LIC, #SUN-LIC, NY

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/14/10 RECEIVED:04/15/10

TIME COL'D:1147

MATRIX:Water SAMPLE: MW-2

ANALYTICAL PARAMETERS	UNITS	RESULT	DATE TIME	FLAG OF ANALYSIS	LRL	ANALYTICAL METHOD
t-1,3Dichloropropene	ug/L	< 1	041610		1	EPA8260
112 Trichloroethane	ug/L	< 1	041610		1	EPA8260
Tetrachloroethene	ug/L	21	041610		1	EPA8260
1,3-Dichloropropane	ug/L	< 1	041610		1	EPA8260
Chlorodibromomethane	ug/L	< 1	041610		1	EPA8260
1,2 Dibromoethane	ug/L	< 1	041610		1	EPA8260
Chlorobenzene	ug/L	< 1	041610		1	EPA8260
Ethyl Benzene	ug/L	< 1	041610		1	EPA8260
1112Tetrachloroethane	ug/L	< 1	041610		1	EPA8260
m + p Xylene	ug/L	< 2	041610		2	EPA8260
o Xylene	ug/L	< 1	041610		1	EPA8260
Styrene	ug/L	< 1	041610		1	EPA8260
Bromoform	ug/L	< 1	041610		1	EPA8260
Isopropylbenzene	ug/L	< 1	041610		1	EPA8260
Bromobenzene	ug/L	< 1	041610		1	EPA8260
1122Tetrachloroethane	ug/L	< 1	041610		1	EPA8260
123-Trichloropropane	ug/L	< 1	041610		1	EPA8260
n-Propylbenzene	ug/L	< 1	041610		1	EPA8260
2-Chlorotoluene	ug/L	< 1	041610		1	EPA8260
135-Trimethylbenzene	ug/L	< 1	041610		1	EPA8260
4-Chlorotoluene	ug/L	< 1	041610		1	EPA8260
tert-Butylbenzene	ug/L	< 1	041610		1	EPA8260
124-Trimethylbenzene	ug/L	< 1	041610		1	EPA8260
sec-Butylbenzene	ug/L	< 1	041610		1	EPA8260
p-Isopropyltoluene	ug/L	< 1	041610		1	EPA8260

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 8820

NYSDOH ID # 10320

Page 2 of 3

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777 • FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.101554.02

04/19/10

C.A. Rich Consultants, Incorporated
17 Dupont Street
Plainview, NY 11803

ATTN: Eric Weinstock

PO#:

SOURCE OF SAMPLE: SUN 52-25 Barnett Avenue, LIC, #SUN-LIC, NY

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/14/10 RECEIVED:04/15/10

TIME COL'D:1147

MATRIX:Water SAMPLE: MW-2

ANALYTICAL PARAMETERS	UNITS	RESULT	DATE TIME FLAG OF ANALYSIS	LRL	ANALYTICAL METHOD
1,3 Dichlorobenzene (v)	ug/L	< 1	041610	1	EPA8260
1,4 Dichlorobenzene (v)	ug/L	< 1	041610	1	EPA8260
n-Butylbenzene	ug/L	< 1	041610	1	EPA8260
1,2 Dichlorobenzene (v)	ug/L	< 1	041610	1	EPA8260
Dibromochloropropane	ug/L	< 1	041610	1	EPA8260
124-Trichlorobenzene (v)	ug/L	< 1	041610	1	EPA8260
Hexachlorobutadiene	ug/L	< 1	041610	1	EPA8260
Naphthalene(v)	ug/L	< 1	041610	1	EPA8260
123-Trichlorobenzene	ug/L	< 1	041610	1	EPA8260
ter. ButylMethylEther	ug/L	< 1	041610	1	EPA8260
p-Ethyltoluene	ug/L	< 1	041610	1	EPA8260
Freon 113	ug/L	< 1	041610	1	EPA8260
1245 Tetramethylbenz	ug/L	< 1	041610	1	EPA8260
Acetone	ug/L	< 10	041610	10	EPA8260
Methyl Ethyl Ketone	ug/L	< 10	041610	10	EPA8260
Methylisobutylketone	ug/L	< 10	041610	10	EPA8260
Chlorodifluoromethane	ug/L	< 1	041610	1	EPA8260
p Diethylbenzene	ug/L	< 1	041610	1	EPA8260

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 8821

NYSDOH ID # 10320

Page 3 of 3

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777 • FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.101554.03

04/19/10

C.A. Rich Consultants, Incorporated

17 Dupont Street

Plainview, NY 11803

ATTN: Eric Weinstock

PO#:

SOURCE OF SAMPLE: SUN 52-25 Barnett Avenue, LIC, #SUN-LIC, NY

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/14/10 RECEIVED:04/15/10

TIME COL'D:1058

MATRIX:Water SAMPLE: MW-3

ANALYTICAL PARAMETERS	UNITS	RESULT	DATE TIME FLAG OF ANALYSIS	ANALYTICAL LRL METHOD
Dichlorodifluoromethane	ug/L	< 1	041610	1 EPA8260
Chloromethane	ug/L	< 1	041610	1 EPA8260
Vinyl Chloride	ug/L	< 1	041610	1 EPA8260
Bromomethane	ug/L	< 1	041610	1 EPA8260
Chloroethane	ug/L	< 1	041610	1 EPA8260
Trichlorofluoromethane	ug/L	< 1	041610	1 EPA8260
1,1 Dichloroethene	ug/L	< 1	041610	1 EPA8260
Methylene Chloride	ug/L	< 1	041610	1 EPA8260
t-1,2-Dichloroethene	ug/L	< 1	041610	1 EPA8260
1,1 Dichloroethane	ug/L	< 1	041610	1 EPA8260
2,2-Dichloropropane	ug/L	< 1	041610	1 EPA8260
c-1,2-Dichloroethene	ug/L	< 1	041610	1 EPA8260
Bromochloromethane	ug/L	< 1	041610	1 EPA8260
Chloroform	ug/L	< 1	041610	1 EPA8260
111 Trichloroethane	ug/L	< 1	041610	1 EPA8260
Carbon Tetrachloride	ug/L	< 1	041610	1 EPA8260
1,1-Dichloropropene	ug/L	< 1	041610	1 EPA8260
Benzene	ug/L	< 1	041610	1 EPA8260
1,2 Dichloroethane	ug/L	< 1	041610	1 EPA8260
Trichloroethene	ug/L	< 1	041610	1 EPA8260
1,2 Dichloropropane	ug/L	< 1	041610	1 EPA8260
Dibromomethane	ug/L	< 1	041610	1 EPA8260
Bromodichloromethane	ug/L	< 1	041610	1 EPA8260
c-1,3Dichloropropene	ug/L	< 1	041610	1 EPA8260
Toluene	ug/L	< 1	041610	1 EPA8260

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 8822

NYSDOH ID # 10320

Page 1 of 3

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777 • FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.101554.03

04/19/10

G.A. Rich Consultants, Incorporated
17 Dupont Street
Plainview, NY 11803

ATTN: Eric Weinstock

PO#:

SOURCE OF SAMPLE: SUN 52-25 Barnett Avenue, LIC, #SUN-LIC, NY

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/14/10 RECEIVED:04/15/10

TIME COL'D:1058

MATRIX:Water SAMPLE: MW-3

ANALYTICAL PARAMETERS	UNITS	RESULT	DATE TIME FLAG OF ANALYSIS	LRL	ANALYTICAL METHOD
t-1,3Dichloropropene	ug/L	< 1	041610	1	EPA8260
112 Trichloroethane	ug/L	< 1	041610	1	EPA8260
Tetrachloroethene	ug/L	39	041610	1	EPA8260
1,3-Dichloropropane	ug/L	< 1	041610	1	EPA8260
Chlorodibromomethane	ug/L	< 1	041610	1	EPA8260
1,2 Dibromoethane	ug/L	< 1	041610	1	EPA8260
Chlorobenzene	ug/L	< 1	041610	1	EPA8260
Ethyl Benzene	ug/L	< 1	041610	1	EPA8260
1112Tetrachloroethane	ug/L	< 1	041610	1	EPA8260
m + p Xylene	ug/L	< 2	041610	2	EPA8260
o Xylene	ug/L	< 1	041610	1	EPA8260
Styrene	ug/L	< 1	041610	1	EPA8260
Bromoform	ug/L	< 1	041610	1	EPA8260
Isopropylbenzene	ug/L	< 1	041610	1	EPA8260
Bromobenzene	ug/L	< 1	041610	1	EPA8260
1122Tetrachloroethane	ug/L	< 1	041610	1	EPA8260
123-Trichloropropane	ug/L	< 1	041610	1	EPA8260
n-Propylbenzene	ug/L	< 1	041610	1	EPA8260
2-Chlorotoluene	ug/L	< 1	041610	1	EPA8260
135-Trimethylbenzene	ug/L	< 1	041610	1	EPA8260
4-Chlorotoluene	ug/L	< 1	041610	1	EPA8260
tert-Butylbenzene	ug/L	< 1	041610	1	EPA8260
124-Trimethylbenzene	ug/L	< 1	041610	1	EPA8260
sec-Butylbenzene	ug/L	< 1	041610	1	EPA8260
p-Isopropyltoluene	ug/L	< 1	041610	1	EPA8260

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 8823

NYSDOH ID # 10320

Page 2 of 3

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LAB NO.101554.03

04/19/10

C.A. Rich Consultants, Incorporated
17 Dupont Street
Plainview, NY 11803

ATTN: Eric Weinstock

PO#:

SOURCE OF SAMPLE: SUN 52-25 Barnett Avenue, LIC, #SUN-LIC, NY

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/14/10 RECEIVED:04/15/10

TIME COL'D:1058

MATRIX:Water SAMPLE: MW-3

ANALYTICAL PARAMETERS	UNITS	RESULT	DATE TIME FLAG OF ANALYSIS	LRL	ANALYTICAL METHOD
1,3 Dichlorobenzene (v)	ug/L	< 1	041610	1	EPA8260
1,4 Dichlorobenzene (v)	ug/L	< 1	041610	1	EPA8260
n-Butylbenzene	ug/L	< 1	041610	1	EPA8260
1,2 Dichlorobenzene (v)	ug/L	< 1	041610	1	EPA8260
Dibromochloropropane	ug/L	< 1	041610	1	EPA8260
124-Trichlorobenzene (v)	ug/L	< 1	041610	1	EPA8260
Hexachlorobutadiene	ug/L	< 1	041610	1	EPA8260
Naphthalene(v)	ug/L	< 1	041610	1	EPA8260
123-Trichlorobenzene	ug/L	< 1	041610	1	EPA8260
ter-ButylMethylEther	ug/L	< 1	041610	1	EPA8260
p-Ethyltoluene	ug/L	< 1	041610	1	EPA8260
Freon 113	ug/L	< 1	041610	1	EPA8260
1245 Tetramethylbenz	ug/L	< 1	041610	1	EPA8260
Acetone	ug/L	< 10	041610	10	EPA8260
Methyl Ethyl Ketone	ug/L	< 10	041610	10	EPA8260
Methylisobutylketone	ug/L	< 10	041610	10	EPA8260
Chlorodifluoromethane	ug/L	< 1	041610	1	EPA8260
p Diethylbenzene	ug/L	< 1	041610	1	EPA8260

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 8824

NYSDOH ID # 10320

Page 3 of 3

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

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Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.101554.04

04/19/10

C.A. Rich Consultants, Incorporated

17 Dupont Street

Plainview, NY 11803

ATTN: Eric Weinstock

PO#:

SOURCE OF SAMPLE: SUN 52-25 Barnett Avenue, LIC, #SUN-LIC, NY

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/14/10 RECEIVED:04/15/10

TIME COL'D:1016

MATRIX:Water SAMPLE: MW-4

ANALYTICAL PARAMETERS	UNITS	RESULT	DATE TIME FLAG OF ANALYSIS	LRL	ANALYTICAL METHOD
Dichlorodifluoromethane	ug/L	< 1	041610	1	EPA8260
Chloromethane	ug/L	< 1	041610	1	EPA8260
Vinyl Chloride	ug/L	< 1	041610	1	EPA8260
Bromomethane	ug/L	< 1	041610	1	EPA8260
Chloroethane	ug/L	< 1	041610	1	EPA8260
Trichlorofluoromethane	ug/L	< 1	041610	1	EPA8260
1,1 Dichloroethene	ug/L	< 1	041610	1	EPA8260
Methylene Chloride	ug/L	< 1	041610	1	EPA8260
t-1,2-Dichloroethene	ug/L	< 1	041610	1	EPA8260
1,1 Dichloroethane	ug/L	< 1	041610	1	EPA8260
2,2-Dichloropropane	ug/L	< 1	041610	1	EPA8260
c-1,2-Dichloroethene	ug/L	< 1	041610	1	EPA8260
Bromochloromethane	ug/L	< 1	041610	1	EPA8260
Chloroform	ug/L	< 1	041610	1	EPA8260
111 Trichloroethane	ug/L	< 1	041610	1	EPA8260
Carbon Tetrachloride	ug/L	< 1	041610	1	EPA8260
1,1-Dichloropropene	ug/L	< 1	041610	1	EPA8260
Benzene	ug/L	< 1	041610	1	EPA8260
1,2 Dichloroethane	ug/L	< 1	041610	1	EPA8260
Trichloroethene	ug/L	< 1	041610	1	EPA8260
1,2 Dichloropropane	ug/L	< 1	041610	1	EPA8260
Dibromomethane	ug/L	< 1	041610	1	EPA8260
Bromodichloromethane	ug/L	< 1	041610	1	EPA8260
c-1,3Dichloropropene	ug/L	< 1	041610	1	EPA8260
Toluene	ug/L	< 1	041610	1	EPA8260

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 8825

NYSDOH ID # 10320

Page 1 of 3

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777 • FAX (631) 422-5770

Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.101554.04

04/19/10

C.A. Rich Consultants, Incorporated
17 Dupont Street
Plainview, NY 11803

ATTN: Eric Weinstock

PO#:

SOURCE OF SAMPLE: SUN 52-25 Barnett Avenue, LIC, #SUN-LIC, NY

SOURCE OF SAMPLE:

COLLECTED BY: Client

DATE COL'D:04/14/10 RECEIVED:04/15/10

TIME COL'D:1016

MATRIX:Water SAMPLE: MW-4

ANALYTICAL PARAMETERS	UNITS	RESULT	DATE TIME FLAG OF ANALYSIS	LRL	ANALYTICAL METHOD
1,3 Dichlorobenzene (v)	ug/L	< 1	041610	1	EPA8260
1,4 Dichlorobenzene (v)	ug/L	< 1	041610	1	EPA8260
n-Butylbenzene	ug/L	< 1	041610	1	EPA8260
1,2 Dichlorobenzene (v)	ug/L	< 1	041610	1	EPA8260
Dibromochloropropane	ug/L	< 1	041610	1	EPA8260
124-Trichlorobenzene (v)	ug/L	< 1	041610	1	EPA8260
Hexachlorobutadiene	ug/L	< 1	041610	1	EPA8260
Naphthalene(v)	ug/L	1	041610	1	EPA8260
123-Trichlorobenzene	ug/L	< 1	041610	1	EPA8260
ter-ButylMethylEther	ug/L	< 1	041610	1	EPA8260
p-Ethyltoluene	ug/L	< 1	041610	1	EPA8260
Freon 113	ug/L	< 1	041610	1	EPA8260
1245 Tetramethylbenz	ug/L	< 1	041610	1	EPA8260
Acetone	ug/L	< 10	041610	10	EPA8260
Methyl Ethyl Ketone	ug/L	< 10	041610	10	EPA8260
Methylisobutylketone	ug/L	< 10	041610	10	EPA8260
Chlorodifluoromethane	ug/L	< 1	041610	1	EPA8260
p Diethylbenzene	ug/L	< 1	041610	1	EPA8260

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 8827

NYSDOH ID # 10320

Page 3 of 3

Appendix D

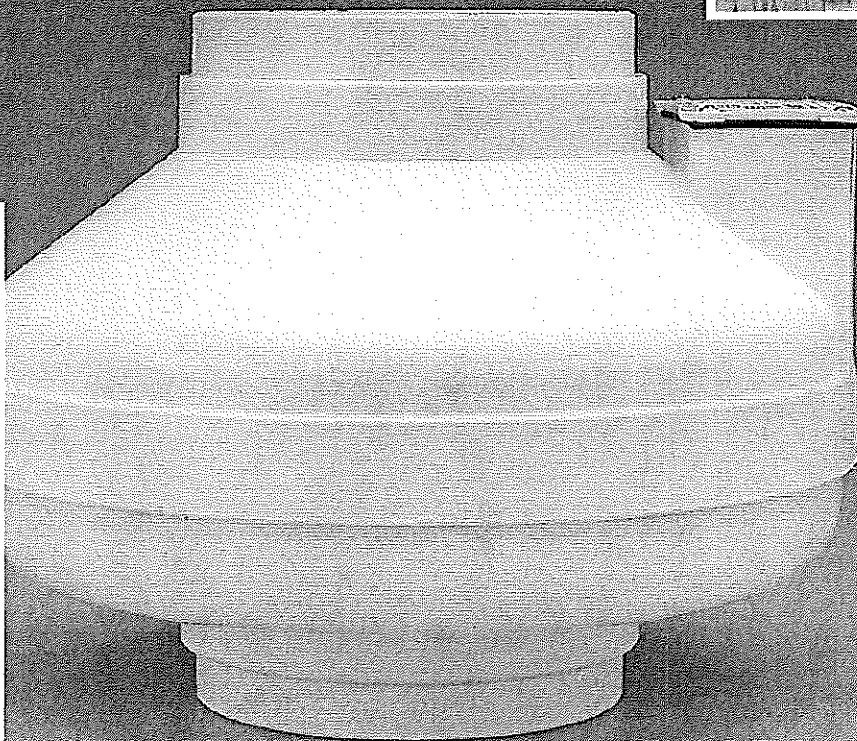
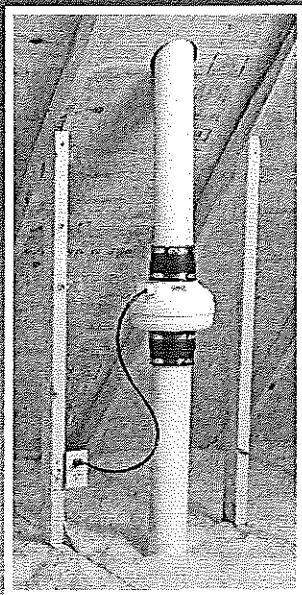
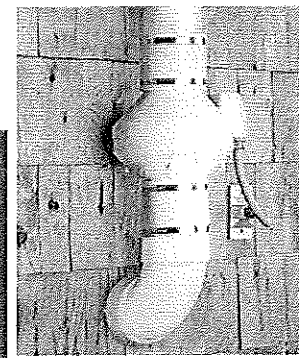
Fantech Model HP220 Product Literature



HP SERIES

FANS FOR RADON APPLICATIONS

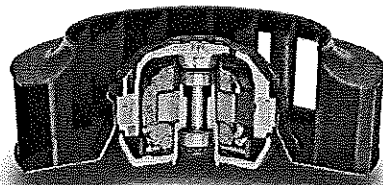
WITH IMPROVED UV RESISTANCE!



TRUST THE INDUSTRY STANDARD.

HERE'S WHY:

Don't put your reputation at stake by installing a fan you know won't perform like a Fantech! For nearly twenty years, Fantech has manufactured quality ventilation equipment for Radon applications. Fantech is the fan Radon contractors have turned to in over 1,000,000 successful Radon installations worldwide.



Fantech external rotor motor

FANTECH HP SERIES FANS MEET THE CHALLENGES OF RADON APPLICATIONS:

HOUSING

- UV resistant, UL Listed durable plastic
- UL Listed for use in commercial applications
- Factory sealed to prevent leakage
- Watertight electrical terminal box
- Approved for mounting in wet locations - i.e. Outdoors

MOTOR

- Totally enclosed for protection
- High efficiency EBM motorized impeller
- Automatic reset thermal overload protection
- Average life expectancy of 7-10 years under continuous load conditions

RELIABILITY

- Five Year Full Factory Warranty
- Over 1,000,000 successful radon installations worldwide

IMPROVING INDOOR AIR QUALITY THROUGH BETTER VENTILATION
www.fantech.net



HP Series Fans are Specially Designed with Higher Pressure Capabilities for Radon Mitigation Applications

MOST RADON MITIGATORS WHO PREVIOUSLY USED THE FANTECH FR SERIES FANS HAVE SWITCHED TO THE NEW HP SERIES.

PERFORMANCE DATA

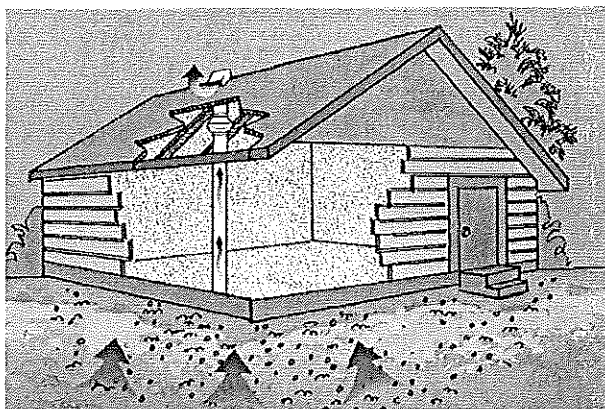
Fan Model	Volts	Wattage Range	Max. Amps	CFM vs. Static Pressure in Inches W.G.								Max. Ps
				0"	0.5"	0.75"	1.0"	1.25"	1.5"	1.75"	2.0"	
HP2133	115	14 - 20	0.17	134	68	19	-	-	-	-	-	0.84
HP2190	115	60 - 85	0.78	163	126	104	81	58	35	15	-	1.93
HP175	115	44 - 65	0.57	151	112	91	70	40	12	-	-	1.66
HP190	115	60 - 85	0.78	157	123	106	89	67	45	18	1	2.01
HP220	115	85 - 152	1.30	344	260	226	193	166	137	102	58	2.46

PERFORMANCE CURVES

Fantech provides you with independently tested performance specifications.

The performance curves shown in this brochure are representative of the actual test results recorded at Texas Engineering Experiment Station/Energy Systems Lab, a recognized testing authority for HVI. Testing was done in accordance with AMCA Standard 210-85 and HVI 916 Test Procedures. Performance graphs show air flow vs. static pressure.

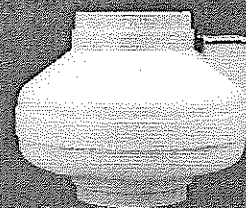
Use of HP Series fans in low resistance applications such as bathroom venting will result in elevated sound levels. We suggest FR Series or other Fantech fans for such applications.



HVI
MEMBER™

HP FEATURES INCLUDE

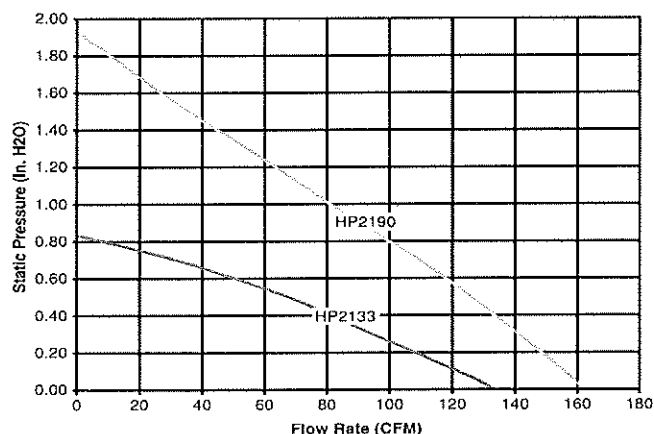
- Improved UV resistant housings approved for commercial applications
- UL Approved for Wet Locations (Outdoors)
- Sealed housings and wiring boxes to prevent Radon leakage or water penetration
- Energy efficient permanent split capacitor motors
- External wiring box
- Full Five Year Factory Warranty



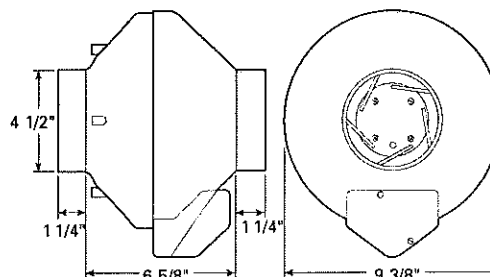
NOTE:

Installations that will result in condensate forming in the outlet ducting should have a condensate bypass installed to route the condensate outside of the fan housing. Conditions that are likely to produce condensate include but are not limited to: outdoor installations in cold climates; long lengths of outlet ducting; high moisture content in soil and thin wall or aluminum outlet ducting. Failure to install a proper condensate bypass may void any warranty claims.

HP2133 & HP2190 RADON MITIGATION FANS



tested with 4" ID duct and standard couplings.



HP2133 – For applications where lower pressure and flow are needed. Record low power consumption of 14-20 watts! Often used where there is good sub slab communication and lower Radon levels.

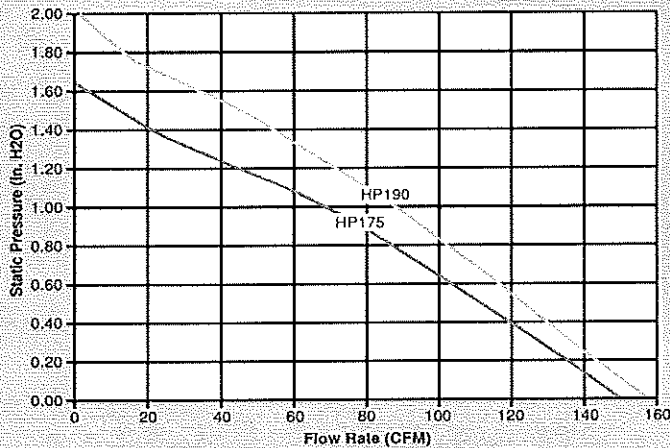
HP2190 – Performance like the HP190 but in a smaller housing. Performance suitable for the majority of installations.

Fans are attached to PVC pipe using flexible couplings.

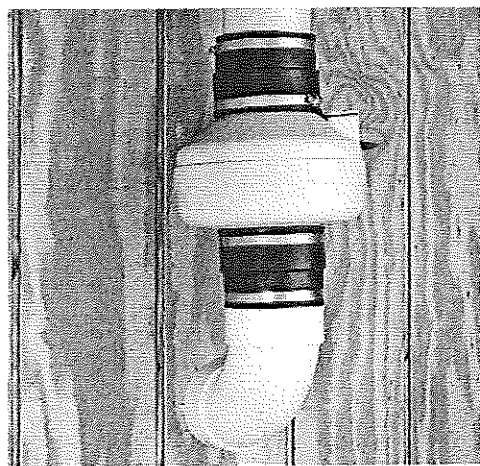
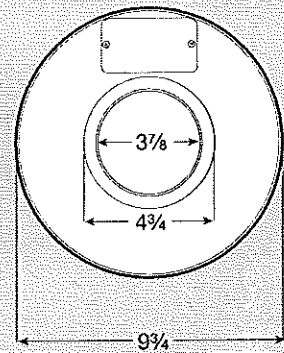
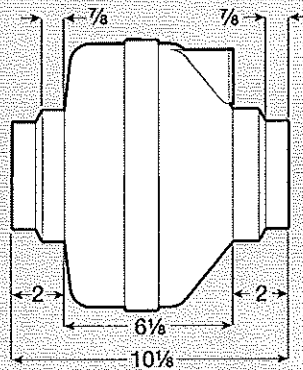
For 4" PVC pipe use Indiana Seals #156-44, Pipeconx PCX 56-44 or equivalent.

For 3" PVC pipe use Indiana Seals #156-43, Pipeconx PCX 56-43 or equivalent.

HP175 & HP190 RADON MITIGATION FANS



Tested with 4" ID duct and standard couplings.



HP175 – The economical choice where slightly less air flow is needed. Often used where there is good sub slab communication and lower Radon levels.

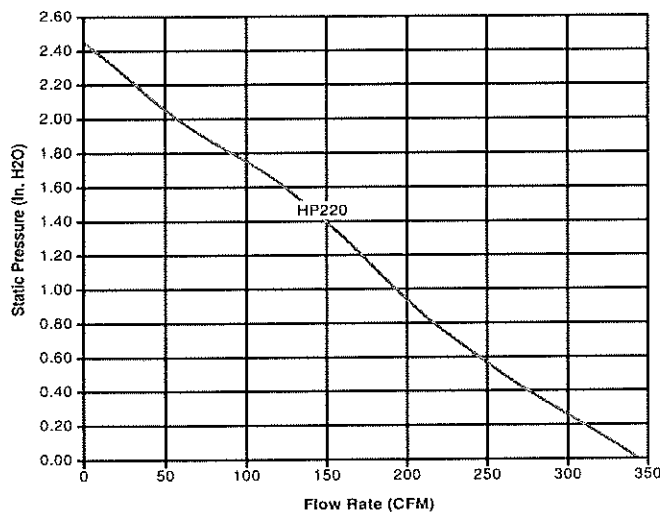
HP190 – The standard for Radon Mitigation. Ideally tailored performance curve for a vast majority of your mitigations.

Fans are attached to PVC pipe using flexible couplings.

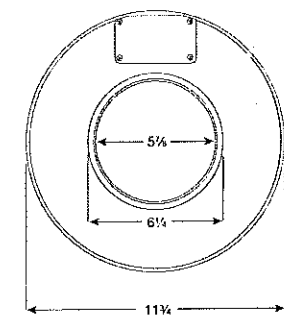
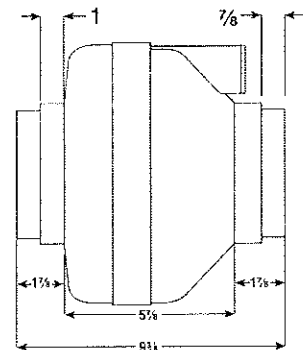
For 4" PVC pipe use Indiana Seals #151-44, Pipeconx PCX 51-44 or equivalent.

For 3" PVC pipe use Indiana Seals #156-43, Pipeconx PCX 56-43 or equivalent.

HP220 RADON MITIGATION FAN



Tested with 6" ID duct and standard couplings.



HP 220 – Excellent choice for systems with elevated radon levels, poor communication, multiple suction points and large subslab footprint. Replaces FR 175.

Fans are attached to PVC pipe using flexible couplings.

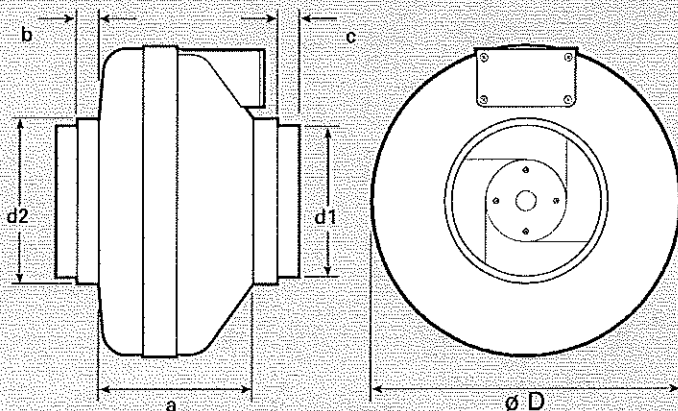
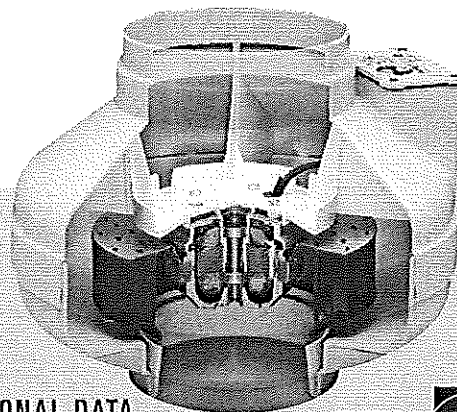
For 4" PVC pipe use Indiana Seals #156-64, Pipeconx PCX 56-64 or equivalent.

For 3" PVC pipe use Indiana Seals #156-63, Pipeconx PCX 56-63 or equivalent.



FR SERIES

THE ORIGINAL MITIGATOR



DIMENSIONAL DATA

model	øD	d1	d2	a	b	c
FR100	9 1/2"	3 7/8"	4 7/8"	6 1/8"	7/8"	7/8"
FR110	9 1/2"	3 7/8"	4 7/8"	6 1/8"	7/8"	7/8"
FR125	9 1/2"	-	4 7/8"	6 1/8"	7/8"	-
FR140	11 3/4"	5 7/8"	6 1/4"	5 7/8"	1"	7/8"
FR150	11 3/4"	5 7/8"	6 1/4"	5 7/8"	1"	7/8"
FR160	11 3/4"	5 7/8"	6 1/4"	6 3/8"	1"	7/8"
FR200	13 1/4"	7 7/8"	9 7/8"	6 1/4"	1 1/2"	1 1/2"
FR225	13 1/4"	7 7/8"	9 7/8"	6 1/4"	1 1/2"	1 1/2"
FR250	13 1/4"	-	9 7/8"	6 1/4"	-	1 1/2"

All dimensions in inches



PERFORMANCE DATA

Fan Model	Energy Star	RPM	Volts	Rated Watts	Wattage Range	Max. Amps	CFM vs. Static Pressure in Inches W.G.							Max. Ps	Duct Dia.
							0"	.2"	.4"	.6"	.8"	1.0"	1.5"		
FR100	✓	2950	120	21.2	13 - 22	0.18	137	110	83	60	21	-	-	0.90"	4"
FR125	✓	2950	115	18	15 - 18	0.18	148	120	88	47	-	-	-	0.79"	5"
FR150	✓	2750	120	71	54 - 72	0.67	263	230	198	167	136	106	17	1.58"	6"
FR160	-	2750	115	129	103 - 130	1.14	289	260	233	206	179	154	89	2.32"	6"
FR200	✓	2750	115	122	106 - 128	1.11	408	360	308	259	213	173	72	2.14"	8"
FR225	✓	3100	115	137	111 - 152	1.35	429	400	366	332	297	260	168	2.48"	8"
FR250*	-	2850	115	241	146 - 248	2.40	649	600	553	506	454	403	294	2.58"	10"

FR Series performance is shown with ducted outlet. Per HVI's Certified Ratings Program, charted air flow performance has been derated by a factor based on actual test results and the certified rate at .2 inches W.G.
* Also available with 8" duct connection. Model FR 250-8. Special Order.

NOTE:

Installations that will result in condensate forming in the outlet ducting should have a condensate bypass installed to route the condensate outside of the fan housing. Conditions that are likely to produce condensate include but are not limited to: outdoor installations in cold climates, long lengths of outlet ducting, high moisture content in soil and thin wall or aluminum outlet ducting. Failure to install a proper condensate bypass may void any warranty claims.

FIVE YEAR WARRANTY

DURING ENTIRE WARRANTY PERIOD:

FANTECH will replace any fan which has a factory defect in workmanship or material. Product may need to be returned to the Fantech factory, together with a copy of the bill of sale and identified with RMA number.

FOR FACTORY RETURN YOU MUST:

- Have a Return Materials Authorization (RMA) number. This may be obtained by calling FANTECH either in the USA at 1.800.747.1762 or in CANADA at 1.800.565.3548. Please have bill of sale available.
- The RMA number must be clearly written on the outside of the carton, or the carton will be refused.
- All parts and/or product will be repaired/replaced and shipped back to buyer; no credit will be issued.

OR

The Distributor may place an order for the warranty fan and is invoiced.

The Distributor will receive a credit equal to the invoice only after product is returned prepaid and verified to be defective.

FANTECH WARRANTY TERMS DO NOT PROVIDE FOR REPLACEMENT WITHOUT CHARGE PRIOR TO INSPECTION FOR A DEFECT. REPLACEMENTS ISSUED IN ADVANCE OF DEFECT INSPECTION ARE INVOICED, AND CREDIT IS PENDING INSPECTION OF RETURNED MATERIAL. DEFECTIVE MATERIAL RETURNED BY END USERS SHOULD NOT BE REPLACED BY THE DISTRIBUTOR WITHOUT CHARGE TO THE END USER, AS CREDIT TO DISTRIBUTOR'S ACCOUNT WILL BE PENDING INSPECTION AND VERIFICATION OF ACTUAL DEFECT BY FANTECH.

THE FOLLOWING WARRANTIES DO NOT APPLY:

- Damages from shipping, either concealed or visible. Claim must be filed with freight company.

- Damages resulting from improper wiring or installation.

- Damages or failure caused by acts of God, or resulting from improper consumer procedures, such as:

- Improper maintenance
 - Misuse, abuse, abnormal use, or accident, and
 - Incorrect electrical voltage or current.
- Removal or any alteration made on the FANTECH label control number or date of manufacture.
 - Any other warranty, expressed, implied or written, and to any consequential or incidental damages, loss or property, revenues, or profit, or costs of removal, installation or reinstallation, for any breach of warranty.

WARRANTY VALIDATION

- The user must keep a copy of the bill of sale to verify purchase date.
- These warranties give you specific legal rights, and are subject to an applicable consumer protection legislation. You may have additional rights which vary from state to state.

DISTRIBUTED BY:



United States 10048 Industrial Blvd. • Lenexa, KS 66215 • 1.800.747.1762 • www.fantech.net
Canada 50 Kanafik Way • Bouctouche, NB E4S 3M5 • 1.800.565.3548 • www.fantech.net

Item #: 411741
Rev Date: 02/10/10

Fantech, reserves the right to modify, at any time and without notice, any or all of its products' features, designs, components and specifications to maintain their technological leadership position.

Appendix E

Waste Oil Disposal Receipts

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No.

46569

2. Page 1

of

3. Generator's Name and Mailing Address

52-25 BARNETT AVE

4. Generator's Phone ()

LIC NY

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6. US EPA ID Number

NY R 0 0 0 1 0 7 3 2 6

A. Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

NY OIL Recovery

94 LAUSMAN ST. BROOKLYN NY

10. US EPA ID Number

C. Facility's Phone

11. Waste Shipping Name and Description

12. Containers

No.

Type

13. Total
Quantity

14. Unit
Wt/Vol

a.

WATER / TRACES OF #2-OIL

001 TIT

66.4

94

b.

NA 1493 PG III

c.

d.

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

N002
27

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

Michael Yager AS Agent FOR owner

Signature

Michael Yager

Month

Day

Year

4

7

10

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Grand Spillows

Signature

M. J. Sot

Month

Day

Year

4

7

10

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month

Day

Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.

Printed/Typed Name

NY OIL Recovery

Signature

Month

Day

Year

4

7

10

ORIGINAL - RETURN TO GENERATOR

Appendix F

FDNY Tank Abandonment Affidavit

MERCURY TANK & PUMP, INC.
233 NEVINS STREET
BROOKLYN, N.Y. 11217
(718) 624-7490

New York City Fire Dept.
Bureau of Fire Prevention
9 Metrotech
Brooklyn, N.Y. 11201

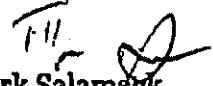
AFFIDAVIT

Re: One 5,000 gallon #2 fuel oil underground tank permanent abandonment at
52-25 Barnett Avenue Queens.

In accordance with Title 3 RCNY @ 21-02, I have supervised the permanent
abandonment of one 5,000 gallon #2 fuel oil underground tank at 52-25 Barnett
Avenue Queens.

- The contents of the tank was completely removed
- The tank was thoroughly cleaned and rendered free of combustible vapors
- All pipes were removed
- The fill port and vent line were removed
- The tank was filled with concrete slurry
- This work was performed on 06, April 2010

Sincerely,


Mark Salamack
New York City Underground Tank Installer
Certificate of License# 80151715 (expires 16, June 2012)

LASSALLE BEST JR.
Notary Public, State of New York
No. 24-0279100
Qualified in Queens County
Commission Expires March 30, 2013

Sworn before me this 13 day of April 2012


Notary Public

Appendix G

Site Photos



Remote fill port to gasoline UST filled with concrete



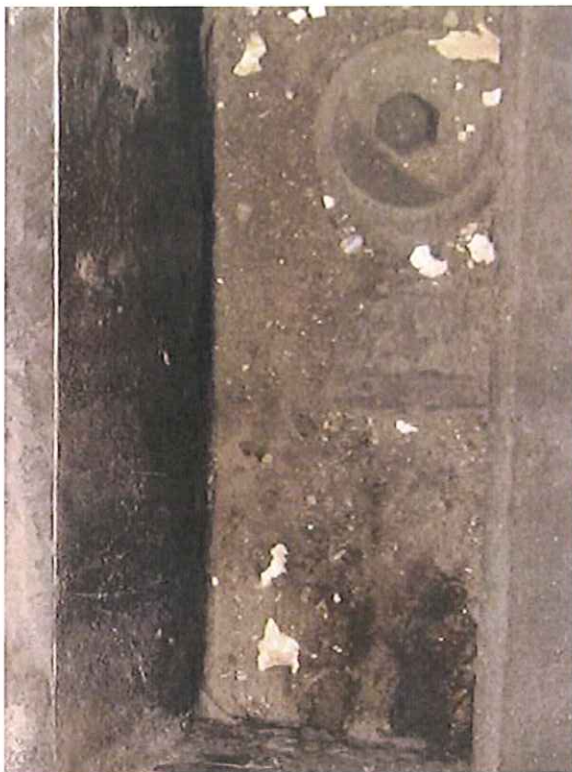
Direct fill port to gasoline UST (marked in yellow) filled with concrete



Heating oil UST filled with concrete



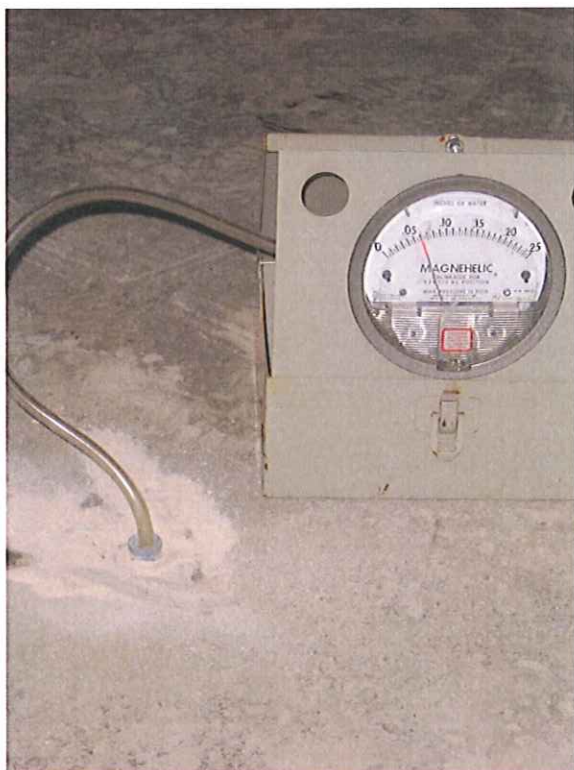
Metal cover sealed over floor pit



Sewer clean-up plug in floor pit



Metal cover sealed over floor pit



Vacuum reading during pilot test



Sealed cracks in floor



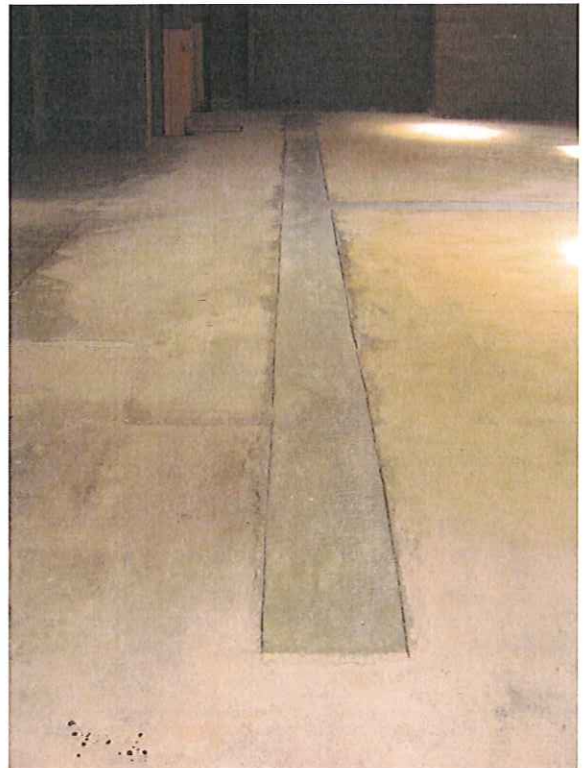
Perforated pipe and filter fabric in trench



One-half inch diameter gravel placed over pipe in trench



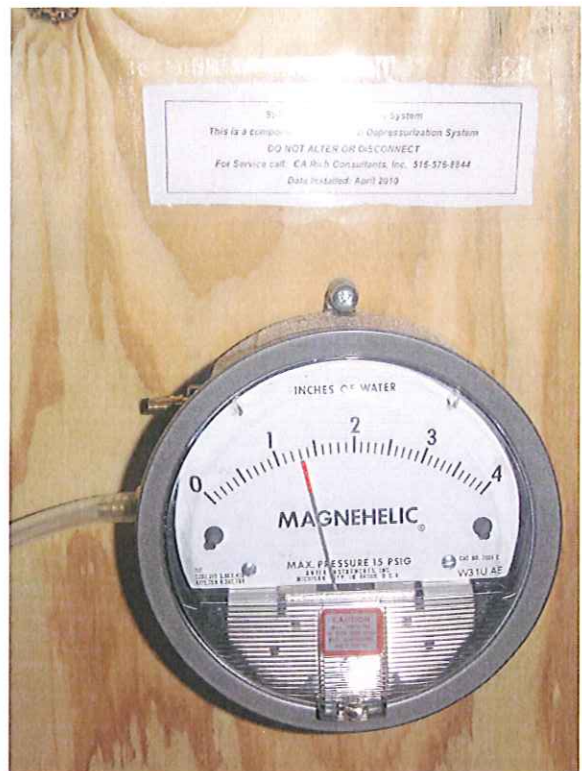
Concrete placed over pipe and gravel in trench



Completed trench



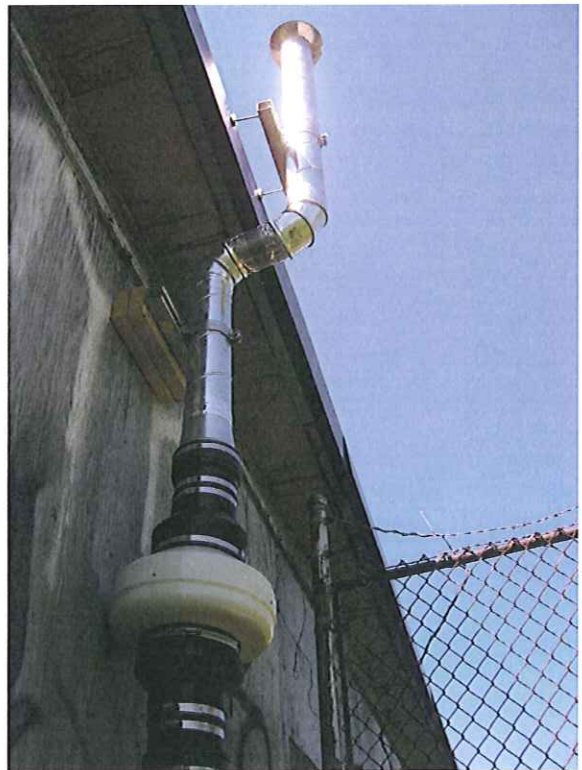
Interior riser pipe with magnehelic guage



Close-up of magnehelic guage



Close-up of Fantech vapor abatement fan



Vapor abatement fan with exterior riser pipe