February 3, 2009

Mr. John Rashak, P.E.
New York State Department of Environmental Conservation
Region 3 Headquarters
21 South Putt Corners Road
New Paltz, NY 12561-1696

Re: Summary of SVE Extraction Interval Assessment Activities
Former Huck manufacturing facility, Kingston, New York
Voluntary Cleanup Program Agreement Index Number: A3-0372-9807

Dear Mr. Rashak:

WSP Engineering of New York, P.C., on behalf of Federal-Mogul Corporation, is submitting this letter to summarize the results of the extraction interval assessment activities performed on the soil vapor extraction (SVE) system at the former Huck manufacturing facility in Kingston, New York. The assessment activities were performed to establish the minimum system operation time necessary to remove volatile organic compounds (VOCs) in the mobile zone within the treatment area during pulsed operation. The extraction interval assessment activities were performed in accordance with WSP Engineering's letter to the New York State Department of Environmental Conservation (NYSDEC), dated April 23, 2008. In a letter, dated May 13, 2008, the NYSDEC approved the proposed extraction interval assessment activities, but requested that indoor air samples be collected within the first floor office area of the main manufacturing building before the initial system shutdown (to represent baseline concentrations) and at the end of the first two 30-day shutdown periods to evaluate potential affects of pulsed operation on indoor air quality. The indoor air testing activities were conducted in accordance with the procedures outlined in the Revised Work Plan for Addressing Offsite Indoor Air Quality, dated November 5, 2008. However, the indoor air samples were collected over 8 hours, rather than 24 hours, to be consistent with historical sampling within the manufacturing building. The results of the extraction interval assessment and indoor air sampling activities are presented below.

Scope of Work

Indoor Air Sampling Activities

In accordance with the NYSDEC's letter to Federal-Mogul, dated May 13, 2008, WSP Engineering collected indoor air samples inside the office area on the first floor of the former manufacturing building on three occasions: on June 5, 2008, immediately before shutting the SVE system off for the first shutdown period; on July 7 approximately 30 days after system shutdown; and on August 8 at the end of the second shutdown period. Before conducting the initial sampling event, WSP Engineering completed the New York State Department of Health's (NYSDOH's) indoor air quality questionnaire and building inventory form, and conducted an inventory of materials and equipment stored in the office and adjoining rooms. The volatile ingredients of each material, if available, were recorded on the inventory form and the containers were scanned with a photoionization detector (PID; RAE Systems ppbRAE) for potential vapor emissions. If the contents of a container suspected of containing VOCs were not listed on the label, WSP Engineering recorded the product name on the inventory form. Due to the relatively short duration of the sampling program, only the material inventory was updated

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before the July and August sampling events. A copy of the completed inventory forms for each sampling event is presented in Enclosure A. Materials containing VOCs of concern (i.e., trichloroethene [TCE], tetrachloroethene [PCE], and cis-1,2-dichloroethene [DCE]) were removed from the main building before initiating sample collection.

Indoor air samples were collected using evacuated 1-liter Entech Instruments, Inc., canisters positioned approximately 3 feet above the floor to be representative of the breathing zone. Physical and visual barriers were placed around the canister, if necessary, so that it was not disturbed during sample collection. The flow regulator was pre-set by the laboratory to collect the samples over 8 hours. The flow regulator was connected to the canister to initiate sample collection. After 8 hours, the flow regulator was removed from the canister to complete the sample collection. The sample name, location, time and date of sample collection, and the canister and regulator number were recorded in the field log book. An outdoor (ambient) air sample was collected outside the main entrance to the building during each sampling event. In accordance with NYSDOH guidance, each outdoor air sample was collected approximately 3 to 5 feet above the ground and away from wind obstructions, if possible (e.g., trees, brush, wooden fences). The outdoor air sample collection was initiated within approximately 1 hour of initiating the indoor air sample. The outdoor air samples were collected with evacuated 1-liter Entech canisters over 8 hours using the same procedures and analytical methods described above for the indoor air samples. The indoor air and outdoor air samples were submitted to Centek Laboratories of East Syracuse, New York, for analysis of TCE, PCE, and cis-1,2- cis-1,2-DCE by U.S. Environmental Protection Agency (EPA) Method TO-15.

Extraction Interval Assessment

The initial step in conducting the extraction interval assessment was to document the influent VOC concentrations in each zone before the initial shutdown period to establish a baseline for evaluating analytical data to be collected at the end of subsequent shutdown periods. On June 5, 2008, WSP Engineering obtained three sets of PID readings and one influent soil gas sample for laboratory analysis from Zones 1 and 2. Vapor for the PID readings was extracted from the influent ports using a hand-operated pump with a Tedlar bag, and the resulting measurements were recorded in the field book. The influent samples for laboratory analysis were collected as grab samples using evacuated 1-liter Entech canisters, which were shipped under ambient conditions to Centek Laboratories of East Syracuse, New York. The samples were analyzed for TCE, PCE, and cis-1,2-DCE by EPA Method TO-15. The SVE system was shutdown immediately following the collection of the vapor samples.

On July 9 through 11, 2008, WSP Engineering performed the extraction interval assessment activities outlined in the approved work plan. The assessment activities included turning on the SVE system and frequently monitoring the influent VOC concentrations in each zone by collecting vapor samples for analysis with a PID (i.e., 70 readings over 2.5 days). These measurements were collected to document the decline in VOC concentrations and to provide real-time information on when the extraction interval should be terminated. In addition to the PID readings, WSP Engineering collected four influent vapor samples from each zone for laboratory analysis to confirm the field measurements and to provide more reliable information for determining the appropriate duration of future extraction intervals. Samples for laboratory analysis were collected approximately 1 minute, 20 minutes, 24 hours, and 28 hours after system startup. The final analytical vapor sample was collected immediately before the system was turned off for the second 30-day shutdown period. Vapor for the PID readings was extracted from the influent ports using a hand-operated pump and Tedlar bag, and the readings were recorded in the field book. The samples for laboratory analysis were collected using 1-liter

Entech canisters and shipped under ambient conditions to Centek Laboratories of East Syracuse, New York, for analysis of TCE, PCE, and cis-1,2-DCE by EPA Method TO-15.

Results

Indoor Air Sampling

The pre-shutdown indoor air sampling results indicated the presence of TCE at a concentration of 4 parts per billion by volume (ppbv)[1], PCE at a concentration of 1.46 ppbv, and cis-1,2-DCE at a concentration of 0.21 ppbv (Table 1). The analytical results from the July 2008 sampling event, which was performed at the end of the first 30-day shutdown period, indicated the presence of TCE (3.4 ppbv) at a concentration that was slightly lower than the pre-shutdown level; however, the detected concentrations of PCE (2.05 ppbv) and cis-1,2-DCE (0.36 ppbv) were similar to, but slightly higher than, the pre-shutdown concentrations for these constituents. The results from the August 2008 sampling event indicated the presence of all three VOCs at levels that were lower than the June (i.e., pre-shutdown) and July 2008 concentrations. Based on the analytical results, the operation of the SVE system in a pulsed mode does not adversely affect on indoor air quality within the office area of the main manufacturing building.

Extraction Interval Assessment

The PID measurements collected throughout the extraction interval assessment are presented in Table 2 and the analytical results from each zone, including the pre-shutdown sample results, are presented in Table 3. The first three influent samples from Zone 2 did not collect properly due to a faulty regulator. Therefore, only the final sample collected from Zone 2 was analyzed. A summary of the PID measurements and analytical results from Zone 1 over the course of the extraction interval assessment, including best fit lines for each data set, are presented in Graph 1. A summary of the PID measurements and analytical results from Zone 2, including a best fit line for the PID results, is presented in Graph 2.

The pre-shutdown analytical results from Zones 1 and 2 indicated the presence of 361.1 ppbv and 275.6 ppbv, respectively (Table 3). During the extraction interval test, the analytical results from Zone 1 showed a rapid decline of the total VOC concentrations over the course of the test with the majority of the decrease occurring within the first few minutes of operation. For example, the initial analytical sample from Zone 1 (collected 1 minute after start-up) contained a total VOC concentration of 2,986 ppbv. The analytical sample collected 19 minutes after startup contained a total VOC concentration of 1,396 ppbv, which is more than a 50 percent reduction (Table 3). After 19 minutes, the total VOC concentrations in the influent continued to decline, though at a significantly slower rate. The total VOC concentration in the influent decreased only an additional 13 ppbv after 24 hours of operation with an additional decrease of only 206 ppbv (i.e., 1,177 ppbv) after 48 hours of operation (Table 3). Data collected in the field with the PID, though more variable, are well correlated with the analytical results showing a slow decline in the concentrations after the first few minutes of operation (Table 2). The first PID measurement obtained from Zone 1 (1,801 ppbv) after start-up suggests that the majority of the decline in total VOC concentrations noted in the first two analytical samples may have occurred within the first 8 minutes of operation.

[1] The analytical results for indoor air are reported in ppbv to be consistent with the reporting of historical indoor air concentrations for the main manufacturing building.

The PID and analytical results follow an exponential trend typical of SVE systems with the data showing an "early" and "late" response that corresponds to the heterogeneity in the soil within the treatment zone. Early recovery data for Zone 1 (i.e., up to 20 minutes into the test) plotted on semi-log paper and fitted with an exponential best fit line yields a decay rate that, if continued, would reduce the concentrations in the influent to the pre-shut down level of 361 ppbv in roughly 58 minutes (Graph 1). This early response period represents the time necessary to remove the soil vapor from the more permeable soils (i.e., the mobile soils) within the treatment zone where the vapor flow is relatively unencumbered and the VOCs that have collected since the shutdown are easily captured (USACE 2002[2]). As time progresses; however, the rate of VOC recovery decreases significantly as the VOC concentrations appear to stabilize. The marked reduction in the rate of VOC recovery, as expressed as a change in slope (i.e., an inflection point) in the VOC concentration data plot after approximately 20 minutes of operation, marks the transition from easily removed vapor in the mobile soils to extraction of VOCs from the less permeable soils (i.e., the immobile soils). Recovery of VOCs from the immobile soils is limited by the rate of mass transfer from the soil microporosity, organic matter, and low permeability zones to the areas of active flow (via the concentration gradient caused by removing the VOCs from the mobile soils), which, as time progresses, is increasingly dominated by the rate of diffusion. The result is an asymptotic curve or "tailing" in the late response data where the SVE recovery efficiency continues to decrease as the VOC concentrations in the influent approach the baseline concentration (Graph 1). The best fit line for the analytical VOC data along this portion of the curve suggests that the pre-shutdown baseline of 361 ppbv would be achieved after approximately 180 days of operation.

The extraction interval test results from Zone 2 closely mirrored the results from Zone 1. Like Zone 1, the PID measurements showed a rapid decline in the first 16 minutes of operation followed by a slow decline in concentration. As shown on Graphs 1 and 2, the slope of the PID best fit lines for Zones 1 and 2 are nearly identical. The PID and analytical results for Zone 2 showed close agreement, as evidenced by the final analytical sample being plotted on the best fit line for the PID data.

Conclusions

Based on the results of the extraction interval assessment activities, WSP Engineering has developed the following conclusions.

Indoor Air

- Based on the results of the indoor air samples collected after the first and second shutdown periods, the concentration of TCE in indoor air was 15 percent lower after the first shutdown period and 56 percent lower after the second shutdown period, as compared to the pre-shutdown concentration.

- The concentration of PCE and cis-1,2-DCE in indoor air increased slightly after the first shut-down period, but then decreased to a level that was below the pre-shutdown concentrations following the second shutdown period.

- Based on the analytical results, the operation of the SVE system in a pulsed mode does not have adverse affect on indoor air quality within the office area of the main manufacturing building.

[2] U.S. Army Corps of Engineers (2002). Engineering and Design: Soil Vapor Extraction and Bioventing.

Extraction Interval Assessment

- The semi-log plot of the analytical results and PID data for Zone 1 shows the characteristic rapid decline in VOC concentrations followed by an asymptotic "tail". An inflection point marks the shift from removing VOCs from permeable soils to less permeable soils.

- The inflection point for Zone 1 occurs within 20 minutes of system startup. The analytical results demonstrate that after 20 minutes of operation, the rate of decline in total VOC concentration becomes asymptotic and an additional 47 hours of operation results in a decrease of only 288 ppbv (i.e., 6 ppbv per hour). Therefore, operation of the system beyond 20 minutes is inefficient in terms of VOC mass removal.

- The best fit line for the Zone 2 PID results is almost identical to Zone 1. The single analytical data point for Zone 2 is in close agreement with the PID data.

Recommendations

Based on the results of the extraction interval testing and indoor air sampling, WSP Engineering recommends that the SVE system continue to be operated in a pulsed mode to maximize the removal of VOCs from the subsurface, while minimizing power consumption. Based on the extraction interval test results, WSP Engineering recommends operating the SVE system for approximately 1 hour each month. WSP Engineering also recommends collecting an influent soil vapor sample from each zone of the SVE system approximately every six months to document the maximum total VOC concentrations in the system influent and to monitor the progress of treatment. The next sampling event will be conducted in February 2009. Based on the sample results, WSP Engineering will re-evaluate the duration of the system shutdown period.

Please feel free to contact us at (315) 655-3900 with any questions or concerns regarding this letter or other aspects of the project.

Sincerely yours,

Brian E. Silfer
Senior Project Director

Todd M. Musterait, P.E.
Senior Project Director

BES/TMM:slp
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Enclosures

cc\encl.: Deborah W. Christian, Esquire, NYSDEC
Ms. Kristin Kulow, NYSDOH
Mr. Mark Bauer, Federal-Mogul Corporation
Mr. Jeffrey Hassen, WSP Environment & Energy
E. Donald Elliott, Esquire, Willkie Farr & Gallagher LLP

Tables

Table 1

Comparison of Indoor Air Results for Manufacturing Building - Offie Area
Former Huck Manufacturing Facility
Kingston, New York
June 2008 through August 2008 (a)

	Pre-Shutdown		Post-Shutdown (b)			
Sample Date	**6/5/08**		**7/8/08**		**8/13/08**	
Sample ID	**IA060508**	**AA060508**	**IA070808**	**AA070808**	**IAF081308**	**AA081308**
Parameter (ppbv)						
cis-1,2-Dichloroethene	0.21	ND	0.36	0.25	0.2	0.1
Tetrachloroethene	1.46	0.53	2.05	6	0.51	ND
Trichloroethene	4	0.17	3.4	0.83	1.79	0.16

a/ Indoor air samples analyzed by U.S. Environmental Protection Agency Method TO-15; ND = compound not detected above laboratory detection limits; ppbv = parts per billion volume.
b/ Post-shutdown indoor air samples were collected 33 days after initial shutdown on June 5, 2008, and 35 days after second shutdown on July 11. The SVE system was operated for approximately 2.5 days following the July 8, 2008, sampling event (i.e., after the initial shutdown period).

Table 2

SVE System Influent PID Measurements - Extraction Interval Test
Former Huck Manufacturing Facility
Kingston, New York
July 9 through July 11, 2008(a)

Zone 1			
Time Since Start-Up (Minutes)	PID Measurement (ppb)	Time Since Start-Up (Minutes)	PID Measurement (ppb)
8	1,801	1,752	974
14	1,468	1,754	1,014
18	1,328	1,756	1,062
32	1,159	1,758	1,390
38	1,360	1,763	980
42	1,449	1,765	1,208
46	1,438	1,893	1,035
58	1,377	1,899	496
62	1,471	1,905	1,262
83	1,488	1,907	1,374
105	1,538	1,911	1,322
147	1,642	1,915	1,356
165	1,580	1,916	1,482
194	1,536	1,920	1,453
262	1,488	1,921	1,390
317	1,665	1,981	1,318
372	1,463	1,982	1,355
411	1,467	1,987	1,385
439	1,554	2,166	1,028
479	1,624	2,838	1,411
483	1,698	2,844	1,169
501	1,750	2,851	1,103
538	1,641	2,855	1,174
554	1,412	2,858	1,130
567	1,701	2,862	1,080
571	1,751	2,899	1,186
591	1,370	2,902	1,070
738	1,536	2,946	1,003
1,409	1,214	2,993	1,068
1,428	960	2,997	984
1,462	639	3,016	1,230
1,501	590	3,019	1,179
1,576	1,456	3,060	1,245
1,581	526	3,062	1,238
1,582	590	3,065	1,277
1,625	1,018	3,094	1,226
1,628	468	3,098	1,131
1,630	920	3,116	1,188
1,631	680	3,133	1,205
1,742	997	3,137	1,215
1,747	596		

Zone 2			
Time Since Start-Up (Minutes)	PID Measurement (ppb)	Time Since Start-Up (Minutes)	PID Measurement (ppb)
12	1,976	1,658	550
16	1,948	1,776	949
28	1,368	1,781	1,032
35	1,428	1,791	1,194
40	1,740	1,800	1,149
44	1,600	1,920	1,052
48	1,632	1,927	539
60	1,596	1,934	1,128
80	1,582	1,940	1,272
108	1,573	1,944	1,377
145	1,563	1,949	1,357
168	1,757	2,015	1,212
193	1,590	2,017	1,260
265	1,507	2,199	933
315	1,583	2,840	980
374	1,534	2,846	1,093
413	1,415	2,853	1,101
442	1,616	2,857	1,075
485	1,690	2,860	992
498	1,709	2,864	1,082
520	1,421	2,901	1,035
532	1,610	2,904	962
549	1,020	2,968	998
554	960	3,012	1,218
573	908	3,020	1,156
720	1,294	3,058	1,162
1,411	555	3,061	1,146
1,462	590	3,064	1,196
1,495	687	3,096	1,142
1,534	1,083	3,099	1,168
1,610	693	3,135	1,165

a/ ppb = parts per billion; PID = photoionization detector.

Table 3

Volatile Organic Compounds in SVE System Influent
Former Huck Manufacturing Facility
Kingston, New York
June 5 through July 11, 2008(a)

Zone 1					
	Pre-Shutdown	**Extraction Interval Test**			
Date (Time)(b)	6/5/08 (16:28)	7/9/08 (8:33)	7/9/08 (8:52)	7/10/08 (8:33)	7/11/08 (12:14)
cis-1,2-Dichloroethene	8.1	56	66	33	27
Tetrachloroethylene	43	630	330	250	190
Trichloroethene	310	2,300	1,000	1,100	960
Total VOCs	361.1	2,986	1,396	1,383	1,177

Zone 2					
	Pre-Shutdown	**Extraction Interval Test**			
Date (Time)(b)	6/5/08 (16:34)	7/9/08 (8:34)	7/9/08 (8:50)	7/10/08 (8:34)	7/11/08 (12:38)
cis-1,2-Dichloroethene	5.6	NA	NA	NA	19
Tetrachloroethylene	100	NA	NA	NA	360
Trichloroethene	170	NA	NA	NA	570
Total VOCs	275.6	NA	NA	NA	949

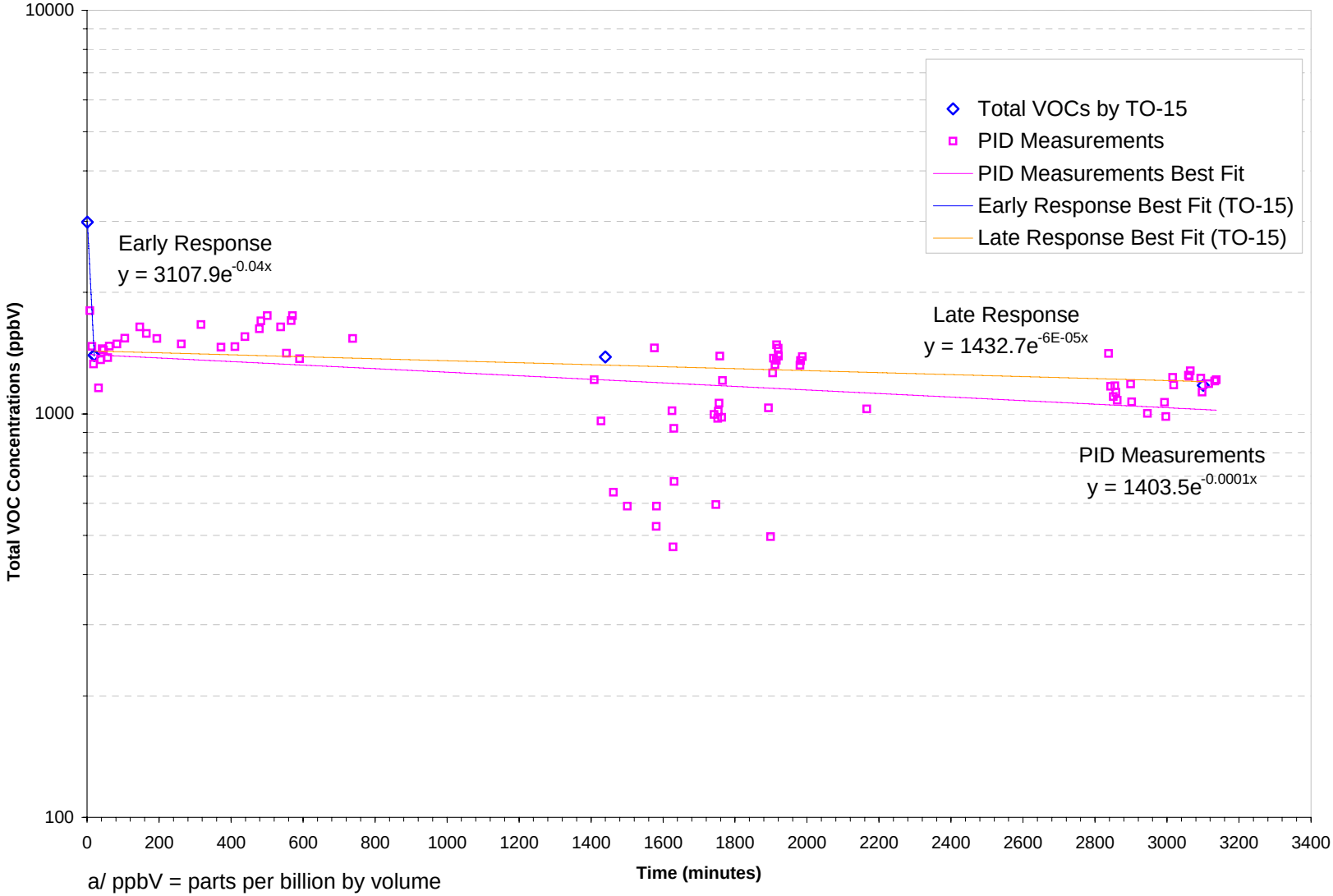
a/ ppbv = parts per billion by volume; ND = not detected at the reporting limit; VOCs = volatile organic compounds; NA = sample not analyzed.

b/ The pre-shutdown samples were collected before the first SVE system shutdown period. The extraction interval test was performed after the SVE system was off for 33 days. Zones 1 and 2 were re-started for the extraction interval test at 08:32 on July 9, 2008.

Graphs

Graph 1

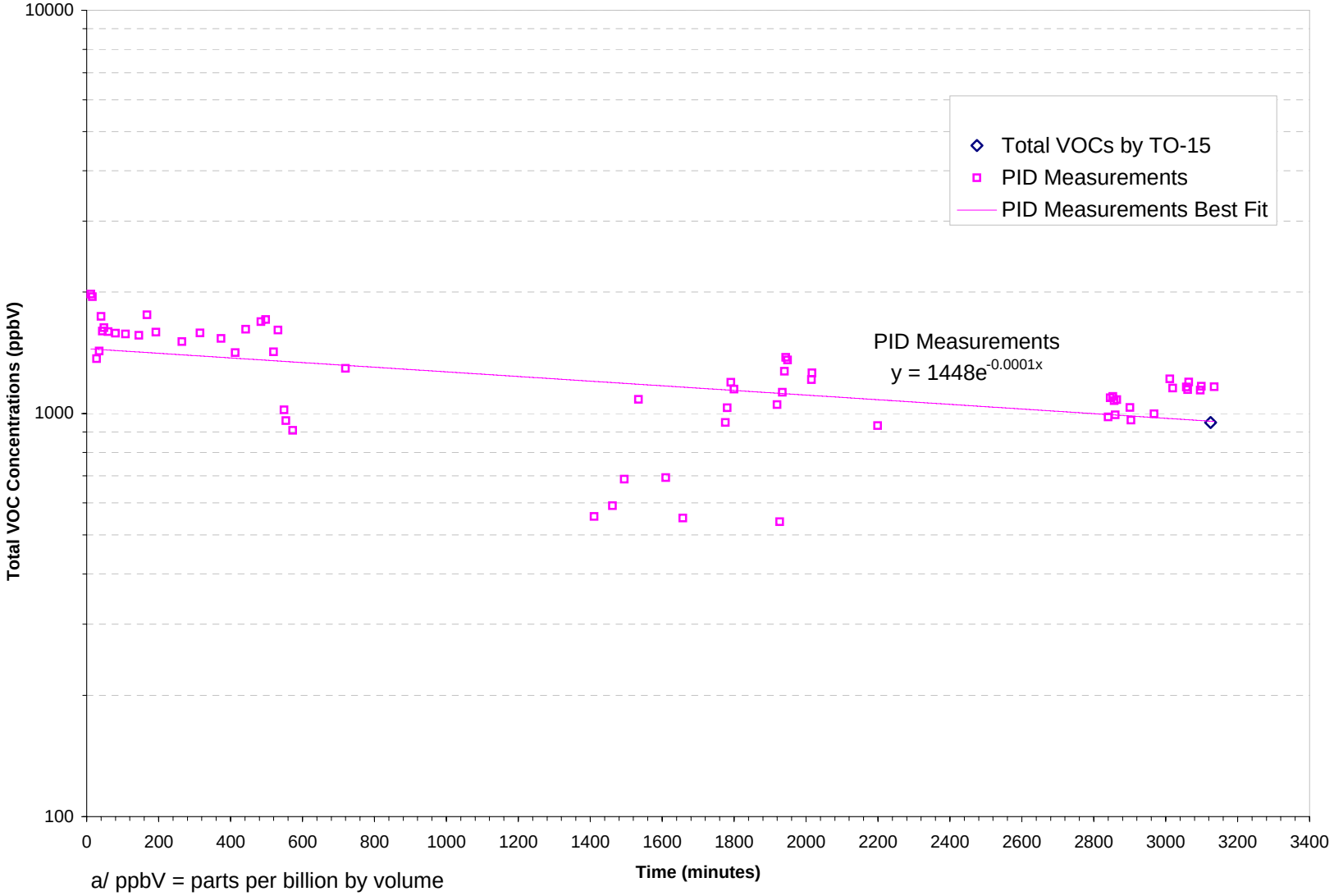
Total VOC Concnetration vs. Time for Zone 1 (Effluent)
Former Huck Manufacturing Facility
Kingston, New York (a)



a/ ppbV = parts per billion by volume

Graph 2

Total VOC Concnetration vs. Time for Zone 2 (Effluent)
Former Huck Manufacturing Facility
Kingston, New York (a)



a/ ppbV = parts per billion by volume

Enclosure A – Indoor Air Quality Questionnaire and Building Inventory Forms

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 Scott Peterson Date/Time Prepared 6/4/08 / 1535

Preparer's Affiliation WSP Engineering of NY, PC Phone No. (315) 655-3900

Purpose of Investigation Air Sampling - SVE System Pulsing

1. OCCUPANT:

Interviewed: (Y) N

Last Name: ALLWAYS Moving First Name: Mike ← Employee

Address: 85 GRAND St.

County: Ulster

Home Phone: NA Office Phone: NA

Number of Occupants/persons at this location 1 Age of Occupants 50-60 YRS

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) NA

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) Storage

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

Other characteristics:

Number of floors 1 Building age 100+ yrs.

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

NA

Airflow near source

NA

Outdoor air infiltration

NA

Infiltration into air ducts

NA

5. **BASEMENT AND CONSTRUCTION CHARACTERISTICS** (Circle all that apply) No basement - only slab on grade

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	block	stone	other _____
g. Foundation walls:	unsealed	sealed	sealed with _____	
h. The basement is:	wet	damp	dry	moldy
i. The basement is:	finished	unfinished	partially finished	
j. Sump present?	Y / N			
k. Water in sump?	Y / N / not applicable			

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

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

NA - no basement

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: NA

Boiler/furnace located in: Basement Outdoors Main Floor Other NA - gas-fired heaters overhead

Air conditioning: (Central Air (OFFICE only)) 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.

See figure (ATTACHED)

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)** (~7a.m to 7p.m.)
Basement	N/A
1st Floor	Office (Rental office)
2nd Floor	
3rd Floor	
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? Small storage area behind the small office

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

h. Have cleaning products been used recently? (Y) / N When & Type? Possibly in the bathroom Aerosol Spray

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? Unsure, bathroom, No COC

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? _____

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

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

If yes, what types of solvents are used? _____

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

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

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

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: NP

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

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

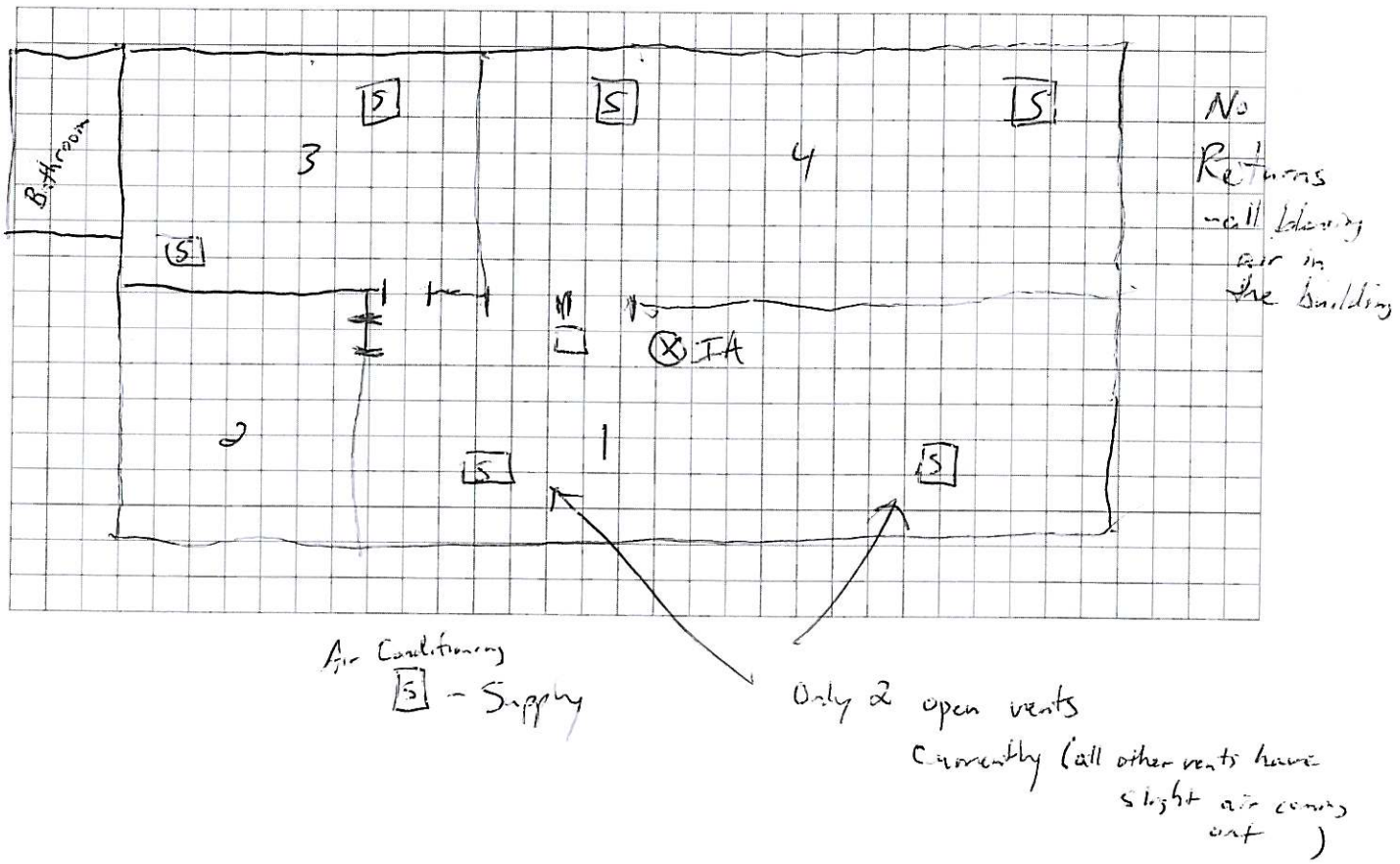
d. Relocation package provided and explained to residents? Y / N

11. FLOOR PLANS

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

Basement: N/A

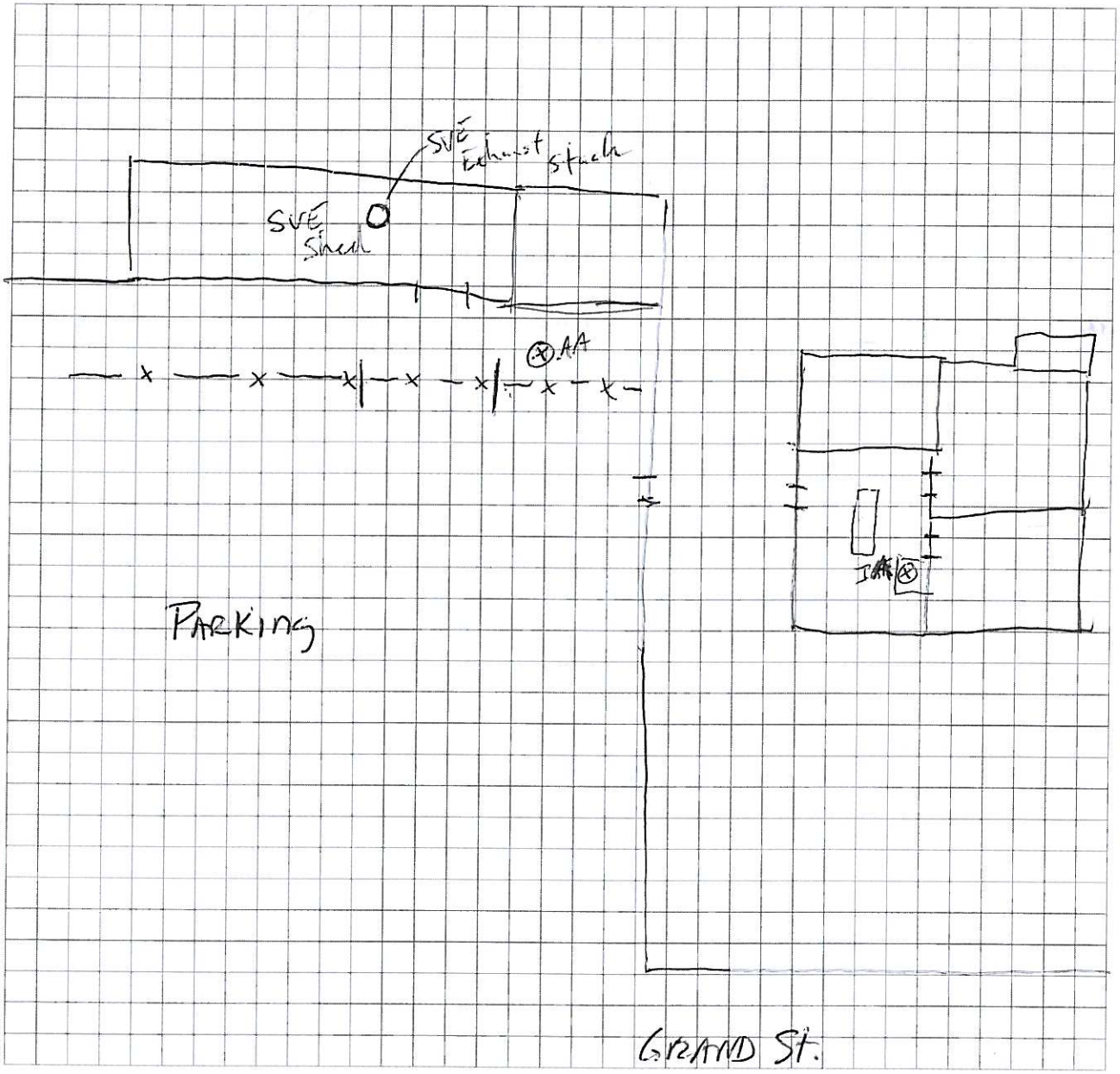
First Floor:



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.



Note: Occupant has been removing graphiti with a spray can/rags and has been bringing the cans in and out of the office all day (see last bottle on sheet below)

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: ppb RAE 3000 Background: 777 ppb

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

see sketch

Room # Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y / N
3	NAPA Premium Performance Oil	1qt	UO	Oil	0	Y
3	Austin's Windshield Washer Fluid	1gallon	U	Methyl Alcohol	0	Y
3	Rotella-T SAE 15W-40 Heavy Duty Motor Oil	1gallon	U	Oil	0	Y
3	(x12) Super Tech SAE 10W-30 Oil	1qt	UO	Oil	0	Y
3	Legacy Air Duster (x3)	10oz	UO	Difluoroethane	0	Y
3	Expo Dry Erase Board Cleaner	2oz	U	2-Butoxyetanol, Alcohol Isopropylique	0	Y
Bathroom	Renuzit - After the Rain	9oz	U	None Listed	0	Y
"	Powerhouse Rose Bouquet (x2)	10oz	U	None Listed	0	Y
"	Raid Ant and Roach	17.5oz	U	Imiprothrin, Imidacloprid, Petroleum Distillates, Cypermethrin	0	Y
"	Raid, Outdoor Scent Ant and Roach	17.5oz	U	Imiprothrin, Petroleum Distillates, Cypermethrin,	0	Y
"	Easy Off Heavy Duty Oven Cleaner	16oz	U	Sodium Hydroxide	0	Y
"	Touch of Glass Glass Cleaner	32oz	U	Ammonia	0	Y
"	Power House (x2) Bathroom Cleaner	14oz	U	Alkaline Minerals	0	Y
"	Spic and Span Sun Fresh	15.5oz	U	None Listed	0	Y
"	Orange Glow Wood Cleaner & Polish	24oz	U	None Listed	0	Y
3 and 4	LA's Totally Awesome Carpet Cleaner (x2)	32oz	U	None Listed	0	Y
"	Renew Floor Cleaner	40oz	U	Solvent, Surfactant	0	Y
"	Pine Glow	40oz	U	Pine Oil	0	Y
"	Blue 2 Bowl Cleaner	12oz	U	Nonylphenol ethoxylate	0	Y

* 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.

"	Ames Isopropyl Alcohol	32oz	U	70% isopropyl alcohol	0	Y
"	Windex	1gallon	U	Ammonia-D	0	Y
3	Bissell Rose Air Freshener	10oz	U	None Listed	0	Y
1	Legacy Air Duster	10oz	U	Difluoroethane		
1	Klean Strip Graffiti Remover	18oz	U			Y

see sketch

Room # Location	Product Description	Size	Condition	Chemical Components	Field Reading	Picture Y/N
4	Lysol Kitchen Cleaner	32 oz	U	Biodegradable Cleaning Agents		Y
4	Molkawik Silicone Dry Lubricant	11.5 oz	U	Petroleum Distillates, Hydrocarbon Propellants	1,123 ppm	Y
4	Awesome Cleaner/Degreaser	16 oz	U	None Listed		Y
4	Alvin Lab Solvent	16 oz	U	Acetone/Toulene	58.70 ppm	Y
4	Meguiars Mirror Glaze	8 oz	U	Petroleum Distillates		
4	Elmers Carpenter Glue	32.5 oz	U	None Listed	0	Y
4	Our Best Tru-Test -0.1	4 oz	U	Petroleum Distillates		
4	Norms Plastic Polish	8 oz	U	None Listed	0	Y
4	Mr. Gasket Plexiglass Cleaner	7.75 oz	U	Carnauba Wax	0	Y
4	Expo white board cleaner	8 oz	U	Butyl Cellosolve	0	Y
4	Parcf Lock-De-Icer	1/2 oz	U	None Listed	0	Y
4 Taken Out	Elmers Pro-Bond Cement	1 oz	U	MEK	10.1 ppm Top was not on completely	Y
4 Taken Out	Oatey Live Cement	4 oz	U	MEK, Tetrahydrofuran Cyclohexanone Amorphous Silica	4.02k ppm	Y
4	WD-40	8 oz	U	Petroleum Distillates	0	Y
4	Groundsman Goof-Off	16 oz	U	Xylene	19.50 ppm	Y
4	Lime-A-Way	28 oz	U	Sulfamic Acid	0	Y
4	Tru Bond Wood Glue	16 oz	U	None Listed	0	Y
4	Anri.	16 oz	U		Petroleum Distillates Aliphatic Hydrocarbons 2.354 ppm	Y
4	3M - Safety stripper	1 qt	U	dimethyl adipate dimethyl glutarate	0	Y
4	Behr - Paint White	1 gallon	U	Ethylene Glycol		Y
4	Super Spec Lanex Paint	1 gallon	U	Linseed Alkyd Resin Titanium Dioxide		
4	Shaw Stain	5 gallons	U	None Listed		

Room #	Product Description	Size	Condition	Chemical Ingredients	SSP Reading	Picture
4	Hydrogen Peroxide By Assured	16 oz	U	3% Hydrogen Peroxide	0	Y
4	Carb tank of pressure washer	1 gallon	U	Gasoline	22.7 ppm	Y
4	Sunny Side Paint Thinner	16 oz	U	Petroleum Distillates	2.562 ppm	Y
4 Taken Out	Sunny Side Brush Cleaner	32 oz	U	Methylene Chloride, Xylene, Methyl Ethyl Ketone, Petroleum Distillate	2.810 ppm	Y
4 Taken Out	Krylon Interior/Exterior Paint	12 oz	U	Ketones, Hydrocarbon Propellants Xylene, Acetates, Ethyl Benzene Toulene	15.1 ppm	Y
4	Rust Oleum Appliance Epoxy	12 oz	U	Xylene, Acetone	0	Y
4	ASM Pump Defender	5 oz	U	None Listed	1.269 ppm	Y
4	Benjamin Moore Super Spec - Latex Paint	1 gallon	U	Titanium Dioxide Calcium Carbonate	0	Y
4	Liquid Nails Adhesive (+3)	10.0 oz	UO	Petroleum Distillates, Naphtalene Styrene Butadiene Copolymer Kaolin	0	Y
4	Benjamin Moore (+5) S.I. Latex Caulk	10.1 oz	UO	Calcium Carbonate, Acrylic Emulsion Butyl Benzyl Phthalate	0	Y
4	Benjamin Moore Patching Compound (+3)	1 gallon	UO	Stoddard Solvent, Titanium Dioxide Calcium Carbonate	0	Y
4	Benjamin Moore Super Spec - Primer Exterior/Interior (+3)	5 gallons	U	Linseed Alkyl Resin Stoddard Solvent, Titanium Dioxide	0.7 ppm	Y
4	Recorded Paint Thinner	5 gallons	U	Stoddard Solvent	5.485 ppm	Y
4	Benjamin Moore (+2) Super Spec - House Paint	5 gallons	UO	Acrylic Resin, Nephline Syenite Titanium and Zinc Oxide	4.1 ppm	Y
4	Simple Green	3 1/2 liters	UO	None Listed		Y
4 Taken Out	Enamel (Paint on Trim)	1 qt	U	Trimethylpentanediol Isobutyrate Acrylic Polymer, Propylene Glycol		Y
4 Out	Enamel (Enamel on Trim)	1 qt	U	Too much Enamel on Cover		Y
4	Lawson Traffic Paint	18 oz	U	Xylene, Toulene		Y
4	Mag 1 Motor Oil	1 qt	U	Motor Oil	0	Y
4	Painter's Touch Rust Stop	12 oz	U	Acetone and Xylene	8.42 ppm	Y
4	Brasso Metal Polish	8 oz	U	Ammonia and Petroleum Distillates	3.817 ppm	Y
4	Old English Scratch Cover (+3) (+1)	8 oz	U	Petroleum Distillates		Y
4	Minwax Wood Finish (+2)	11.5 oz	U	Petroleum Distillate		Y
4	NAPA - Premium Steering Fluid	11 oz	UO	Diethy Ether	5.132 ppm	Y

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 Scott Petersen Date/Time Prepared 7/7/08 1535

Preparer's Affiliation WSP Engineering of NY, PC Phone No. (315) 655-3900

Purpose of Investigation Air Sampling - SVE System Pulsing

1. OCCUPANT:

Interviewed: Y (N)

Last Name: Allways Moving First Name: Mike (employee)

Address: 85 Grand St

County: Ulster

Home Phone: — Office Phone: —

Number of Occupants/persons at this location 1 Age of Occupants 50-60 yrs

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) Storage

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

Other characteristics:

Number of floors 1 Building age 100+ yrs

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

NA

Airflow near source

NA

Outdoor air infiltration

NA

Infiltration into air ducts

NA

5. **BASEMENT AND CONSTRUCTION CHARACTERISTICS** (Circle all that apply) No basement - only slab on grade

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	block	stone	other _____
g. Foundation walls:	unsealed	sealed	sealed with _____	
h. The basement is:	wet	damp	dry	moldy
i. The basement is:	finished	unfinished	partially finished	
j. Sump present?	Y / N			
k. Water in sump?	Y / N / not applicable			

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

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

NA

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: _____

Boiler/furnace located in: Basement Outdoors Main Floor Other NA - GAS-FIRED overhead heaters

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.

See figure

7. OCCUPANCY

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

9a.m to 7p.m.

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	N/A
1st Floor	Office (Rental office)
2nd Floor	
3rd Floor	
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? Small storage area behind the small office

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

h. Have cleaning products been used recently? (Y) / N When & Type? Possibly in the bathroom Aerosol Spray

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? Unsure, bathroom, No COC

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? _____

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

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

If yes, what types of solvents are used? _____

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

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

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

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: NA

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

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

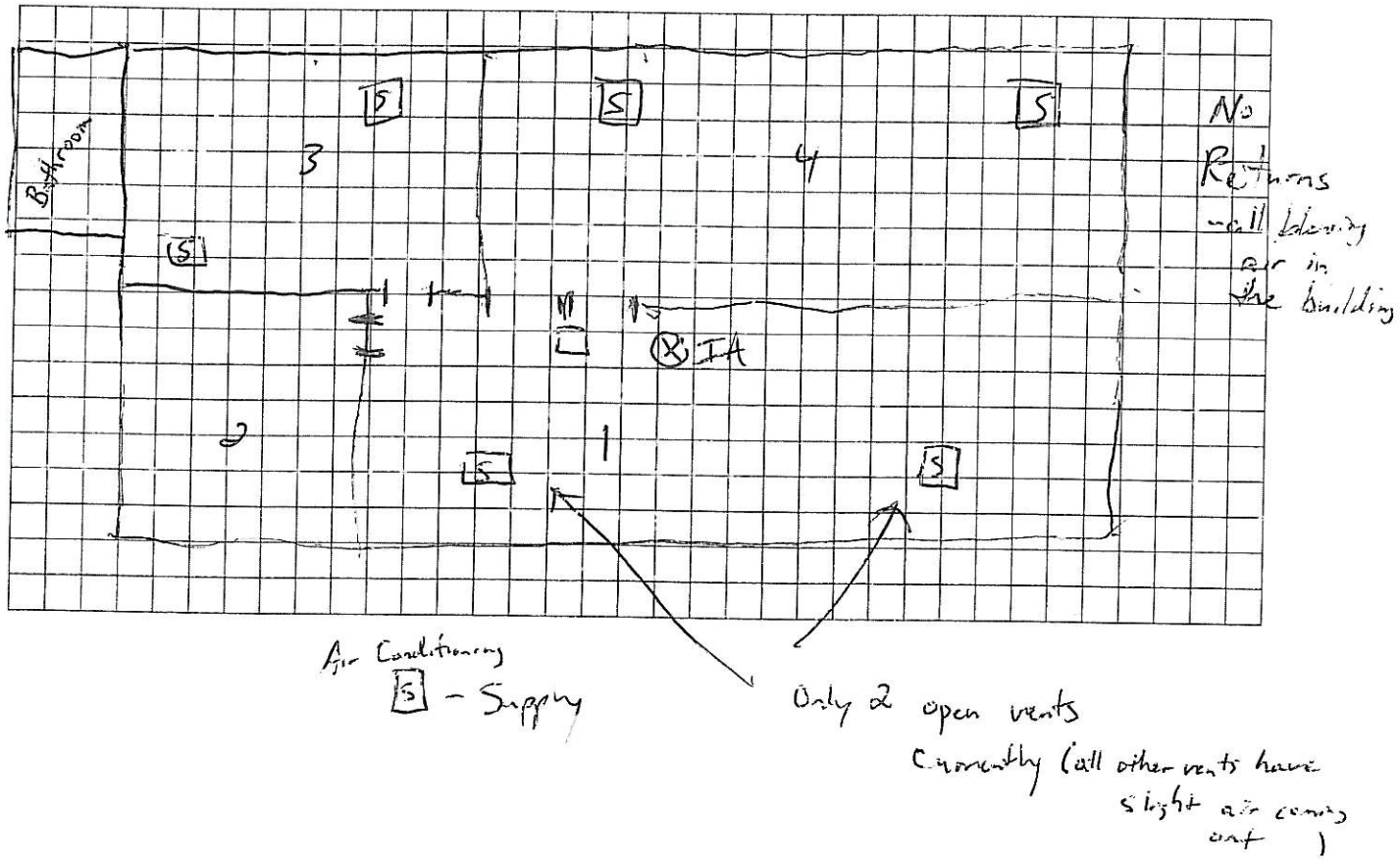
d. Relocation package provided and explained to residents? Y / N

11. FLOOR PLANS

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

Basement: N/A

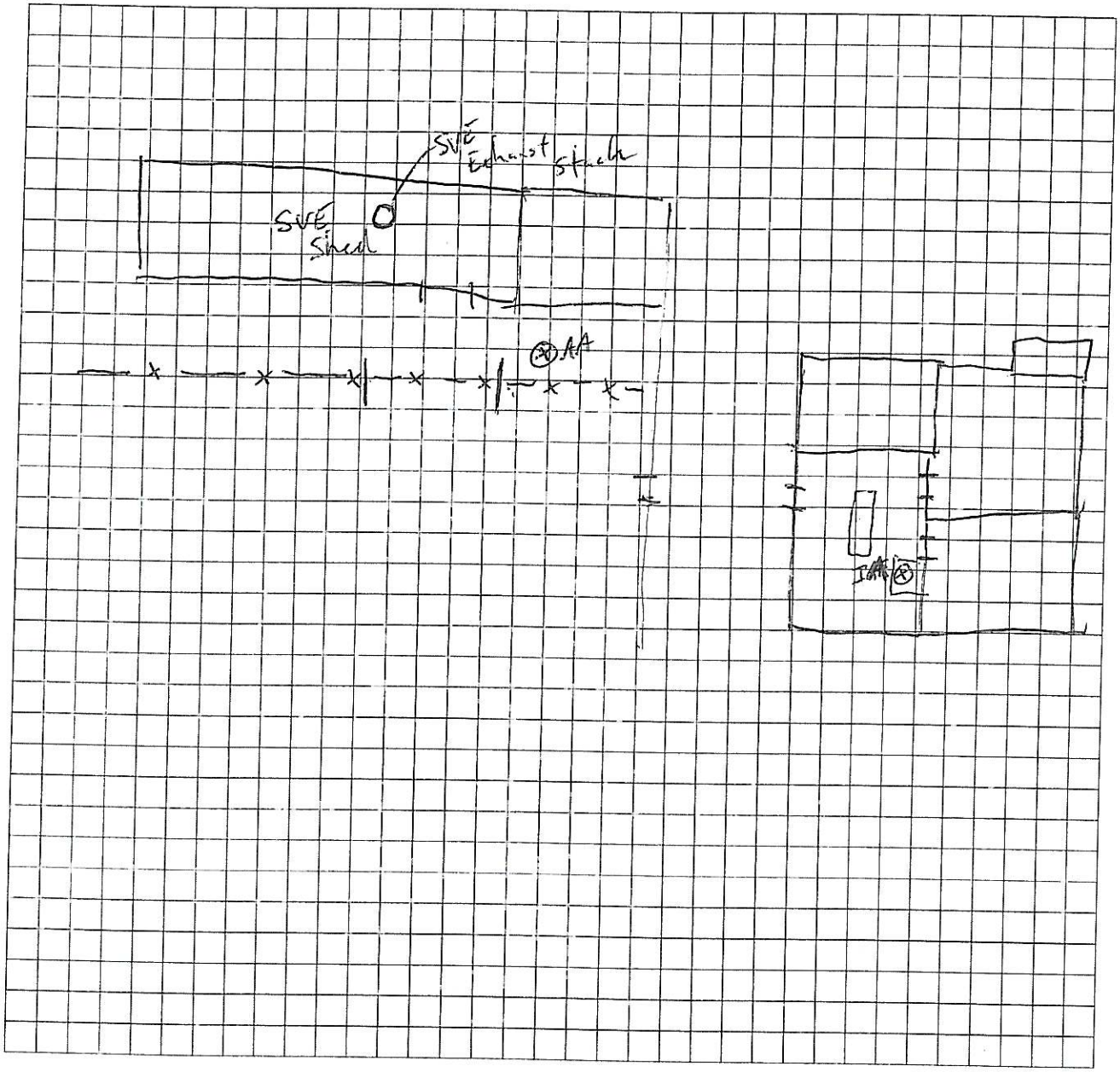
First Floor:



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.



Background
Room 1 56 ppb Bathroom 120 ppb
3 72 ppb

13. PRODUCT INVENTORY FORM 7/7/08

Make & Model of field instrument used: ppb RAE 3000

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

Note: Did not subtract out the background

See next sheet	Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y / N
1	3	NAPA				0	Y
2	3	Austin's Windshield Wiper				0	
3	3					0	
4	3					0	
5	3					0	
6	3	Exp. Dry Erase	2oz	U		125 ppb	Y
7	Bathroom	Rennzit - After the Rain	9oz	U		248 ppb	
8	"	Powerhouse Rose Bouquet	10oz	U		183 ppb	
9	"					0	
10	"					0	
11	"	Easy off Heavy Duty Oven Cleaner	16oz	U		153 ppb	
12	"	Touch of Glass	32oz	U		234 ppb	
13	"					0	
14	"					0	
15	"					0	
16	"					0	
17	"					0	
18	"					0	
19	"	Not in Room					
20	"	Ames Isopropyl Alcohol	32oz	U		230 ppb	
21	"					0	
22	3	Not in the Room				0	
23	1	Not in the Room				0	
24	1	Not in the Room		U		0	

* 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.

Note: Occupant has been removing graphiti with a spray can/rags and has been bringing the cans in and out of the office all day (see last bottle on sketch below)

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: ppb RAE 3000 Background: 777 ppb

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

see sketch

	Room # Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N
1	3	NAPA Premium Performance Oil	1qt	UO	Oil	0	Y
2	3	Austin's Windshield Washer Fluid	1gallon	U	Methyl Alcohol	0	Y
3	3	Rotella T SAE 15W-40 Heavy Duty Motor Oil	1gallon	U	Oil	0	Y
4	3	(x12) Super Tech SAE 10W-30 Oil	1qt	UO	Oil	0	Y
5	3	Legacy Air Duster (x3)	10oz	UO	Difluoroethane	0	Y
6	3	Expo Dry Erase Board Cleaner	2oz	U	2-Butoxyetanol, Alcohol, Isopropylene	0	Y
7	Bathroom	Renuzit - After the Rain	9oz	U	None Listed	0	Y
8	"	Powerhouse Rose Bouquet (x2)	10oz	U	None Listed	0	Y
9	"	Raid Ant and Roach	17.5oz	U	Imiprothrin, Imidacloprid, Petroleum Distillates, Cypermethrin	0	Y
10	"	Raid Outdoor Scent Ant and Roach	17.5oz	U	Imiprothrin, Petroleum Distillates, Cypermethrin,	0	Y
11	"	Easy Off Heavy Duty Oven Cleaner	16oz	U	Sodium Hydroxide	0	Y
12	"	Touch of Glass Glass Cleaner	32oz	U	Ammonia	0	Y
13	"	Power House (x2) Bathroom Cleaner	14oz	U	Alkaline Materials	0	Y
14	"	Spic and Span Sun Fresh	15.5oz	U	None Listed	0	Y
15	"	Orange Glow Wood Cleaner & Polish	24oz	U	None Listed	0	Y
16	3 and 4	LA's Totally Awesome Carpet Cleaner (x2)	32oz	U	None Listed	0	Y
17	"	Renew Floor Cleaner	40oz	U	Solvent, Surfactant	0	Y
18	"	Pine Glow	40oz	U	Pine Oil	0	Y
19	"	Blue 2 Bowl Cleaner	12oz	U	Nonylphenol ethoxylate	0	Y

* 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.

20	"	Ames Isopropyl Alcohol	32oz	U	70% isopropyl alcohol	0	Y
21	"	Windex	1gallon	U	Ammonia-D	0	Y
22	3	Bissell Rose Air Freshener	10oz	U	None Listed	0	Y
23	1	Legacy Air Duster	10oz	U	Difluoroethane	0	Y
24	1	Klean Strip Graffiti Re-	18oz	U			Y

see sketch

Room # / Location	Product Description	Size	Condition	Chemical Ingredients	Field Reading	Picture Y/N
25 4	Lysol kitchen cleaner	32 oz	U	Biodegradable Cleaning Agents		Y
26 4	Mohawk Silicone Dry Lubricant	11.5 oz	U	Petroleum Distillates Hydrocarbon Propellants	1.125 ppm	Y
27 4	Awesome cleaner/Degreaser	16 oz	U	None Listed		Y
28 4	Alvin Lab solvent	16 oz	U	Acetone/Toulene	58.20 ppm	Y
29 4	Meguiars Mirror Glaze	8 oz	U	Petroleum Distillates	0	
30 4	Elmers Carpenter Glue	3.25 oz	U	None Listed	0	
31 4	Our Best Tru-Test -Oil	4 oz	U	Petroleum Distillates	0	Y
32 4	Novus Plastic Polish	8 oz	U	None Listed	0	Y
33 4	Mr. Gasket Plexiglass Cleaner	7.75 oz	U	Carnauba Wax	0	Y
34 4	Expo white board cleaner	8 oz	U	Butyl Cellosolve	0	Y
35 4	Panef Lock-De-Icer	1/2 oz	U	None Listed	0	Y
36 Taken Out	Elmers Pro-Bond Cement	1 oz	U	MEK	10.1 ppm Top was not on completely	Y
37 Taken Out	Oatey CPVC Cement	4 oz	U	MEK, Tetrahydrofuran Cyclohexanone Amorphous Silica	4.026 ppm	Y
4 38	WD-40	8 oz	U	Petroleum Distillates	0	Y
4 39	Guardsman Goof-off	16 oz	U	Xylene	19.80 ppm	Y
4 40	Lime-A-Way	28 oz	U	Sulfamic Acid	0	Y
4 41	Tite Bond Wood Glue	16 oz	U	None Listed	0	Y
4 42	Anri.	16 oz	U	Petroleum Distillates Aliphatic Hydrocarbons	2.354 ppm	Y
4 43	3M - Safest Stripper	1 qt	U	dimethyl adipate dimethyl glutarate	0	Y
4 44	Behr - Paint White	1 gallon	U	Ethylene Glycol		Y
4 45	Super Spec Latex Paint	1 gallon	U	Linseed Alkyd Resin Titanium Dioxide		
4 46	Show Stain ...	5 gallons	U	None Listed		

6/4/08

Background in Room 4 = 176 ppb

13. PRODUCT INVENTORY FORM 7/7/08

Make & Model of field instrument used: ppbRae 3000

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

See next sheet	Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y / N
25	4					0	Y
26	"	Mohawk Silicone	11.5oz	U		390 ppb	Y
27	"					0	"
28	"	Alvin Lab Solvent	16oz			17.7 ppm	"
29	"					0	
30	"					0	
31	"					0	
32	"					0	
33	"					0	
34	"					0	
35	"					0	
36	" *	Elmers Pro-Bond Cement	1oz	U		362 ppb	
37	" *	PVC Cement	4oz	U		2639 ppb	
38	"					0	
39	"	Goof. Off				18.1 ppm	
40	"					0	
41	"					0	
42	"	Anri				822 ppb	
43	"					0	
44	"					0	
45	"					0	
46	"					0	

* 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.

Old

	Room #	Product Description	Size	6/14/18 Condition	Chemical Ingredients	SEP Reading	Picture
47	4	Hydrogen Peroxide By Assured	16 oz	U	3% Hydrogen Peroxide	0	Y
48	4	Gas tank of pressure washer	1 gallon	U	Gasoline	22.7 ppm	Y
49	4	Sunny Side - Paint Thinner	16 oz	U	Petroleum Distellates	[illegible] 2.5k2 ppm	Y
Item Out	4	Sunny Side Brush Cleaner	32 oz	U	Methylene Chloride, Xylene, Methyl Ethyl Ketone, Petroleum Distillates	2.810 ppm	Y
Item Out	4	Krylon Interior/Exterior Paint	12 oz	U	Ketones, Hydrocarbon Propellents Xylene, Acetates, Ethyl Benzene Toulene	15.1 ppm	Y
52	4	Rust Oleum Appliance Epoxy	12 oz	U	Xylene, Acetone	0	Y
53	4	ASM Pump Defender	5 oz	U	None Listed	1.26 ppm	Y
54	4	Benjamin Moore Super Spec - Latex Paint	1 gallon	U	Titanium Dioxide Calcium Carbonate	0	Y
55	4	Liquid Nails Adhesive (+3)	10.0 oz	UO	Petroleum Distillates, Naphtene Styrene Butadiene Copolymer Kaolin	0	Y
56	4	Benjamin Moore (+5) S.I. Latex Caulk	10.1 oz	UO	Calcium Carbonate, Acrylic Emulsion Butyl Benzyl Phthalate	0	Y
57	4	Benjamin Moore Patching Compound (+3)	1 gallon	UO	Stoddard Solvent, Titanium Dioxide Calcium Carbonate	0	Y
58	4	Benjamin Moore Super Spec - Primer (+3) Exterior/Interior	5 Gallons	U	Linseed Alkyl Resin Stoddard solvent, Titanium Dioxid	0.7 ppm	Y
59	4	Recordsol Paint Thinner	5 gallons	U	Stoddard Solvent	5.4 ppm	Y
60	4	Benjamin Moore (+2) Super Spec - House Paint	5 gallons	UO	Acrylic Resin, Nephline Syenite Titanium and Zinc Oxide	4.1 ppm	Y
61	4	Simple Green	3.78 Liters	UO	None Listed		Y
62	4 Taken Out	Enamel (Paint on Primer)	1 qt	U	Trimethylpentanediol Isobutyrate Acrylic Polymer, Propylene Glycol		Y
63	4 Out	Enamel (Enamel on Primer)	1 qt	U	Too much Enamel on Caster		Y
64	4	Lawson Traffic Paint	18 oz	U	Xylene, Toulene		Y
65	4	Mag 1 Motor Oil	1 qt	U	Motor Oil	0	Y
66	4	Painter's Touch Rustoleum	12 oz	U	Acetone and Xylene	8.2 ppm	Y
67	4	Brasso Metal Polish	8 oz	U	Ammonia and Petroleum Distillates	3.81 ppm	Y
68	4	Old English Scratch Cover (Wood) (+4)	8 oz	U	Petroleum Distillates		Y
69	4	Minwax - Wood Finish (+2)	11.5 oz	U	Petroleum Distillates		Y
70	4	NAPA - Premium Starting Fluid	11 oz	UO	Diethy Ether	[illegible] 1.13 ppm	Y

13. PRODUCT INVENTORY FORM 7/7/08

Make & Model of field instrument used: ppb Rae 3000

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

See next sheet	Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y / N
47	4					0	Y
48	4	Not in the Room				0	Y
49	4 *	Sunny Side Paint Thinner Brush Cleaner	16oz	U		3595 ppb	Y
50	4 *	Sunny Side Brush Cleaner	32oz	U		3020 ppb	Y
51	11					[illegible] 2396 ppb	Y
52		Rust Oleum Appliance Epoxy	12oz	U		46 ppb	Y
53		ASM Pump Defender	5oz	U		925 ppb	Y
54		Benjamin Moore [illegible]	[illegible]	U		[illegible] 0	Y
55						0	Y
56						0	Y
57						0	Y
58		Benjamin Moore (x1) Exterior/Interior	5 gallon	U		790 ppb	Y
59		Recordsol Paint Thinner	5 gallon	U		1060 ppb	Y
60		Benjamin Moore Super (x3) 5 gal	5 gallon	U		1005 ppb	Y
61						0	
62						0	
63						0	
64		Rustoleum Painter's Touch	12oz	U		12.88 ppm	
65						0	
66		Painter's Touch	12oz	U		0	
67		Brasso -		U		1771 ppb	
68						0	
69						0	
70						312 ppb	

* 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.

Background
Room 3 : 72 ppb

13. PRODUCT INVENTORY FORM 7/7/08

Make & Model of field instrument used: ppbRae - 3000

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
3	Paper Mate Liquid Paper x3	0702	UO	None Listed	244 ppb	Y

* 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.

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 Scott Petersen Date/Time Prepared 8/11/08

Preparer's Affiliation WSP Engineering of NY, P.C. Phone No. (315) 655-3900

Purpose of Investigation Air Sampling - SVE System Pulsing

1. OCCUPANT:

Interviewed: Y / (N)

Last Name: Always Mining First Name: Mike (employee)

Address: 85 Grand St.

County: Ulster

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location 1 Age of Occupants 50-60 y/s

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) NA

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) Storage

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

Other characteristics:

Number of floors 1 Building age 100+ yrs

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

NA

Airflow near source

NA

Outdoor air infiltration

NA

Infiltration into air ducts

NA

5. **BASEMENT AND CONSTRUCTION CHARACTERISTICS** (Circle all that apply) No basement - only slab on grade

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	block	stone	other _____
g. Foundation walls:	unsealed	sealed	sealed with _____	
h. The basement is:	wet	damp	dry	moldy
i. The basement is:	finished	unfinished	partially finished	
j. Sump present?	Y / N			
k. Water in sump?	Y / N / not applicable			

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

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

NA

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: NA

Boiler/furnace located in: Basement Outdoors Main Floor Other NA - gas-fired heating over head

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.

See figure

7. OCCUPANCY

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

~7a.m to 7p.m.

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	N/A
1st Floor	Office (Rental office)
2nd Floor	
3rd Floor	
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? Small storage area behind the small office

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

h. Have cleaning products been used recently? (Y) / N When & Type? Possibly in the bathroom Aerosol Spray

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? Unsure, bathroom, No COC

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? _____

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

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

If yes, what types of solvents are used? _____

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

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

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

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: NA

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

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

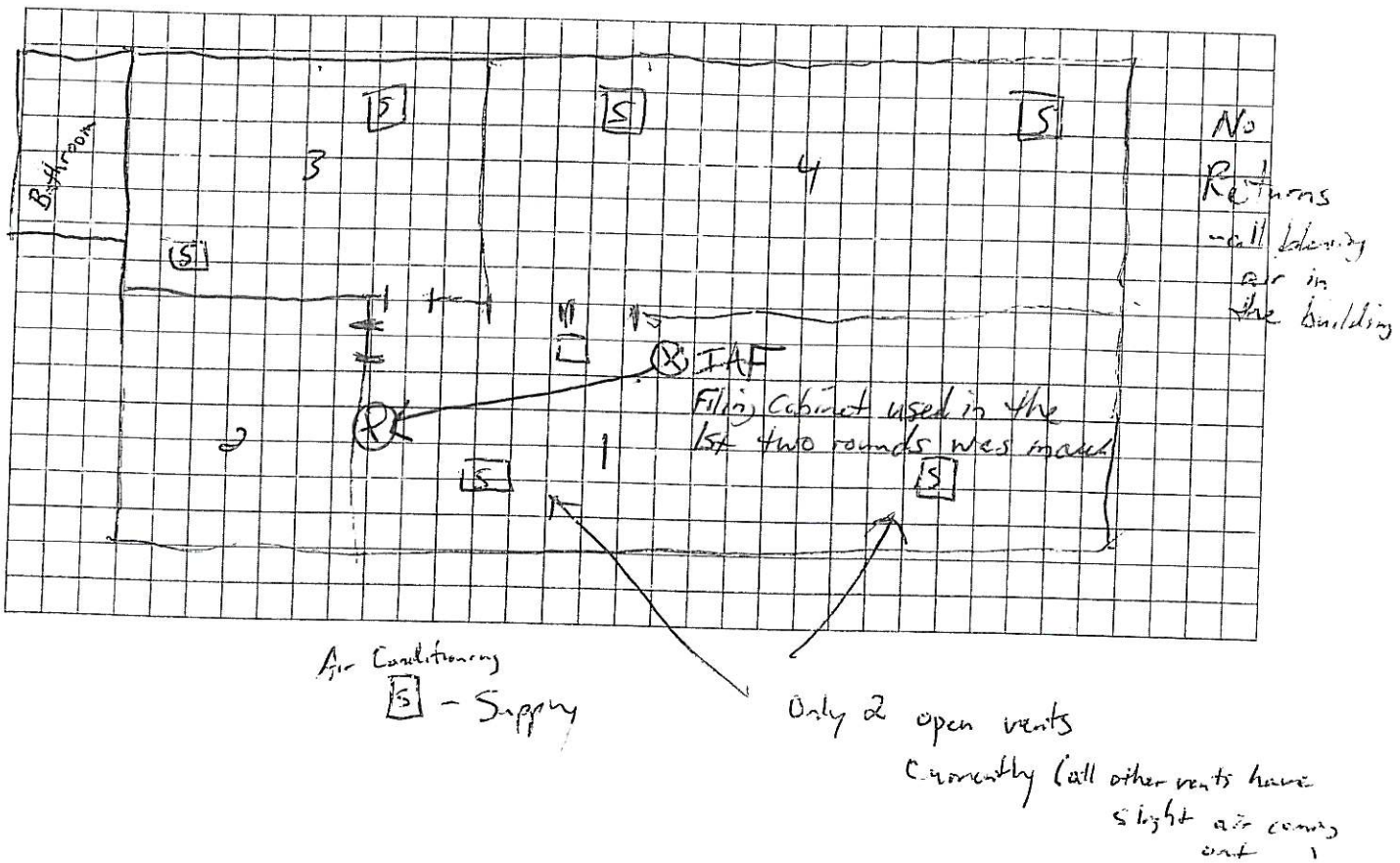
d. Relocation package provided and explained to residents? Y / N

11. FLOOR PLANS

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

Basement: N/A

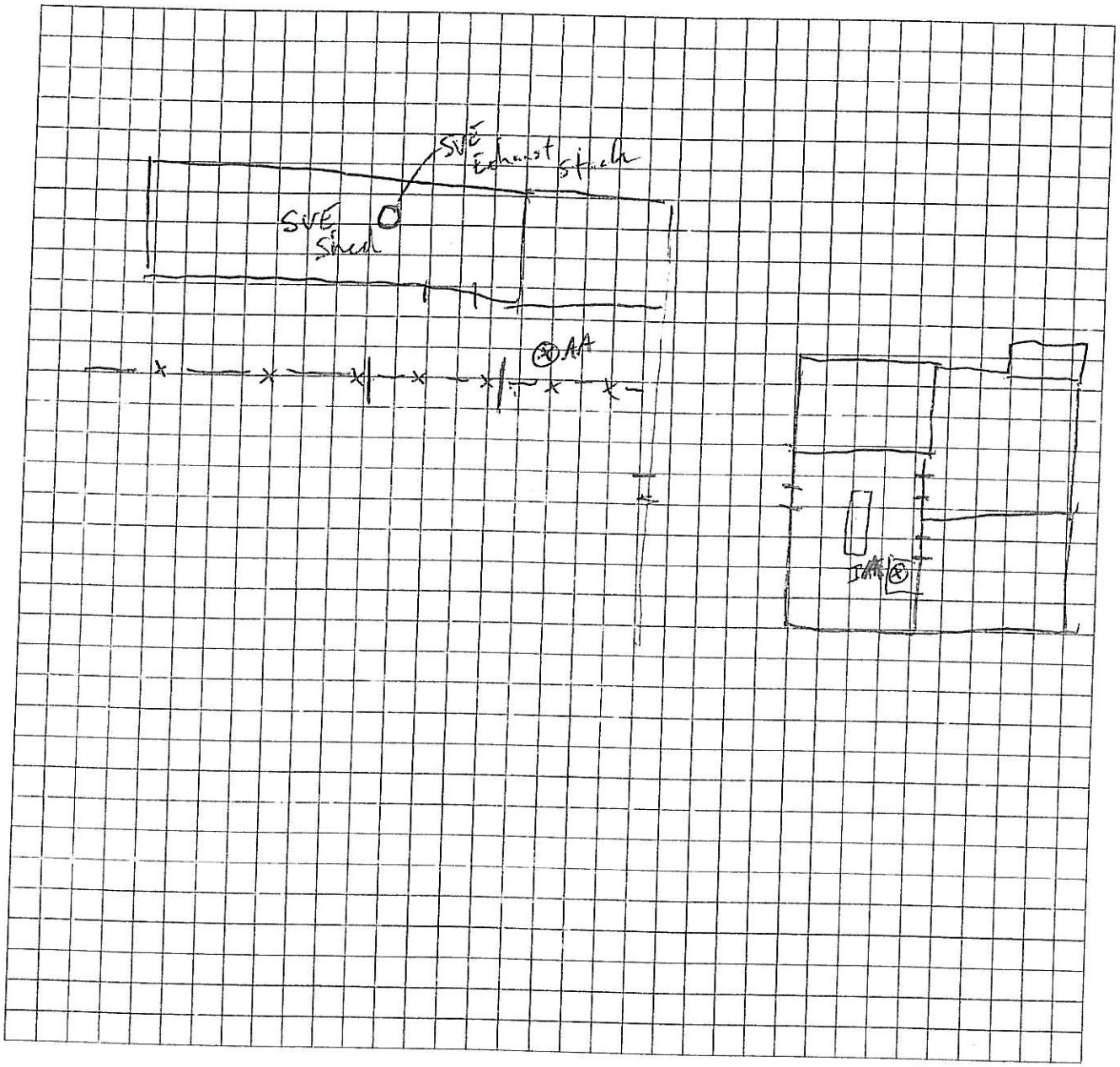
First Floor:



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.



Background

3

Bathroom

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: ppbRAE

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
1	3					0	Y
2	3					0	Y
3	3					0	Y
4	3					0	Y
5	3					0	Y
6	3	Exp. Dry Erase	2oz	U		380 ppb	Y
7	Bathroom	Renuzit - After the Rain	9oz	U		266 ppb	Y
8	"	Powerhouse Rose Bouquet	10oz	U		369 ppb	Y
9	"					0	Y
10	"					0	Y
11	"	Easy-Off Heavy Duty	16oz	U		229 ppb	Y
12	"	Touch of Glass	32oz	U		266 ppb	Y
13	"					0	Y
14	"					0	Y
15	"					0	Y
16	"					0	Y
17	"					0	Y
18	"					0	Y
19	"				Not Here	N/A	N/A

* 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.

New

Bathroom	Pantene Hairspray	9.5oz	U	Cyclohexylamine, Dimethyl Ether, Denat Vinyl Neodecanoate Copolymer, Aminomethyl Propanol Glycereth-7 Triacetate	311 ppb Y

Background Bathroom : 205 ppb

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
20	Bathroom					0	Y
21	"	Ames Isopropyl Alcohol	32	U		248 ppb	Y
22	"				Not Here	0	N
23	"					0	N
24	"				Not Here	0	N
25	Num						
26	Bathroom	Ty-D-Bol	12oz	UO	None Listed	237 ppb	Y
27							

* 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.

Background
Room 3 : [illegible] ppb
205

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: ppbRae - 3000

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
3	Paper Mate Liquid Paper x3	.702	UO	None Listed	[illegible] 670 ppb	Y

* 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.

Note: Occupant has been removing graphiti with a spray can/rags and has been bringing the cans in and out of the office all day (see last bottle on sheet 2 of 2)

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: ppbRAE 3000 Background: 777 ppb

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

see sketch

	Room # Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N
					6/24/08		
1	3	NAPA Premium Performance Oil	1qt	UO	Oil	0	Y
2	3	Austin's Windshield Washer Fluid	1gallon	U	Methyl Alcohol	0	Y
3	3	Rotella SAE 15W-40 Heavy Duty Motor Oil	1gallon	U	Oil	0	Y
4	3	(x2) Super Tech SAE 10W-30 Oil	1qt	UO	Oil	0	Y
5	3	Legacy Air Duster (x3)	10 oz	UO	Difluoroethane	0	Y
6	3	Expo Dry Erase Board Cleaner	2oz	U	2-Butoxyetanol, Alcohol Isopropylique	0	Y
7	Bathroom	Renuzit - After the Rain	9oz	U	None Listed	0	Y
8	"	Powerhouse Rose Bouquet (x2)	10oz	U	None Listed	0	Y
9	"	Raid Ant and Roach	17.5oz	U	Imiprothrin, Imidacloprid, Petroleum Distillates, Cypermethrin	0	Y
10	"	Raid Outdoor Scent Ant and Roach	17.5oz	U	Imiprothrin, Petroleum Distillates, Cypermethrin,	0	Y
11	"	Easy Off Heavy Duty Oven Cleaner	16oz	U	Sodium Hydroxide	0	Y
12	"	Touch of Glass Glass Cleaner	32oz	U	Ammonia	0	Y
13	"	Power House (x2) Bathroom Cleaner	14oz	U	Alkaline Materials	0	Y
14	"	Spic and Span Sun Fresh	15.5oz	U	None Listed	0	Y
15	"	Orange Glow Wood Cleaner & Polish	24oz	U	None Listed	0	Y
16	Small	LA's Totally Awesome Carpet Cleaner (x2)	32oz	U	None Listed	0	Y
17	"	Renew Floor Cleaner	40oz	U	Solvent, Surfactant	0	Y
18	"	Pine Glow	40oz	U	Pine Oil	0	Y
19	"	Blue 2 Bowl Cleaner	32oz	U	Nonylphenol ethoxylate	0	Y
20	"	Ames Isopropyl Alcohol	32oz	U	70% isopropyl alcohol	0	Y
21	"	Windex	1gallon	U	Ammonia-D	0	Y
13	BTSA\Sections\SIS\Oil Spills\Guidance Docs\Aiproto4.doc	Bissell Rose Air Freshner	3oz	U	None Listed	0	Y
1		Legacy Air Duster	10oz	U	Difluoroethane	0	Y
1		Klean Strip - Graffiti R.	18oz	U			

* 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.

Background

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: ppbRAE

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
25	4					0	
26	4	Mohawk Silicone	11.5oz	U		432 ppb	Y
27	4					0	Y
28	4	Alvin Lab Solvent	16oz	U		16.2 ppm	Y
29	4					0	Y
30	4					0	Y
31	4					0	Y
32	4					0	Y
33	4					0	Y
34	4					0	Y
35	4					0	Y
36	4	Elmers Pro-Bond Cement	1oz	U		414 ppb	Y
37	4	PVC Cement	4oz	U		3292 ppb	Y
38	4					0	Y
39	4	Goof-Off x2			See last page	0	Y
40	4					0	Y
41	4					0	Y
42	4	Anri	16oz	U		1435 ppb	Y
43	4					0	Y

* 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.

Background Rm 4: 250

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: ppb RAE PGM-7240

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
44	4					0	Y
45	4					0	Y
46	4					0	Y
	New ↓					0	Y
(x7)	4	Benjamin Moore Super (x6)	5gallon	UO	Calcium Carbonate, Stoddard Solvent, Linseed Resin, Silica Crystalline	5591 ppb	Y
	4	Benjamin Moore Super Spec Latex Spec Prime (x1)	5gall	UO	Acrylic Polymer, Zinc oxide Titanium Dioxide	0	Y
	4	Goof Off (x2)	1pint	U	Xylene, Toulene	958 ppm	Y
	4	Motsenbacher Left-off Paint	22oz	U	Water-Based Biodegradable	408 ppb	Y
	4	Gas Can (x2)	5gallon	U	Gasoline	568 ppb	Y
	~~4~~	~~Benjamin Moore Paint (x2)~~	~~5gallon~~	U			
	4	AllPro Paint Thinner	5 gallon	UO	100% mineral Spirits	0	Y

* 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.

Room # / Location (see photo)	Product Description	Size	Condition	Chemical Components	Field Reading	Picture Y/N
25 4	Lysol Kitchen cleaner	32 oz	U	Biodegradable cleaning agents		Y
16 4	Motsenbocker Silicone Dry Lubricant	11.5 oz	U	Petroleum Distillates, Hydrocarbon Propellants	1,625 ppm	Y
17 4	Awesome Cleaner/Degreaser	16 oz	U	None Listed		Y
8 4	Alvin Lab Solvent	16 oz	U	Acetone/Toulene	58.20 ppm	Y
9 4	Meguiars Mirror Glaze	8 oz	U	Petroleum Distillates		Y
30 4	Elmers Carpenter Glue	3.25 oz	U	None Listed		
1 4	Our Best Ton-Test -0.1	4 oz	U	Petroleum Distillates		Y
24	Norns Plastic Polish	8 oz	U	None Listed		Y
34	Mr. Gasket Plexiglass Cleaner	7.75 oz	U	Carnuba Wax		Y
4 4	Expo white board cleaner	8 oz	U	Butyl Cellosolve	0	Y
4 35	Parker Lock-De-Icer	1/2 oz	U	None Listed	0	Y
36 Taken out	Elmers Pro-Bond Cement	1 oz	U	MEK	0	Y
37 Taken out	Ontex LPVC Cement	4 oz	U	MEK, Tetrahydrofuran, Cyclohexanone, Amorphous Silica	10.1 ppm Top was not on completely	Y
38	WD-40	8 oz	U	Petroleum Distillates	4.026 ppm	Y
39	Guardsman Goof-off	16 oz	U	Xylene	0	Y
40	Lime-A-Way	28 oz	U	Sulfamic Acid	19.80 ppm	Y
41	Titebond Wood Glue	16 oz	U	None Listed	0	Y
42	Anri	16 oz	U	Petroleum Distillates, Aliphatic Hydrocarbons	2.354 ppm	Y
43	3M - Safety Stripper	1 qt	U	dimethyl adipate, dimethyl glutarate		Y
44	Behr - Paint White	1 gallon	U	Ethylene Glycol	0	Y
45	Super Spec Lanier Paint	1 gallon	U	Linseed Alkyd Resin, Titanium Dioxide		Y
4	Show Stick Shower	5 gallons	U	None Listed		

Background

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: ppbRAE

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
47	4					0	Y
48	4				~~[illegible]~~ Not Here	~~[illegible]~~	Y
49	4 *	Sunny Side Paint Thinner	16oz	U		4540 ppb	Y
50	4 *	Sunny Side Brush Cleaner	32oz	U		3358 ppb	Y
51	4	Krylon Interior/Exterior	12oz	U		580 ppb	Y
52	4	Rust Cleaner Appliance Epoxy	12oz	U		0	Y
53	4	ASM Pump Defender	5oz	U		0	Y
54	~~4~~	~~Benjamin Moore~~		~~U~~	Not Here	~~[illegible]~~	Y
55	4					0	Y
56	4					0	Y
57	4					0	Y
58	4	~~Benjamin Moore Exterior/Exterior~~	~~5 gallon~~	~~U~~	Not Here	~~[illegible]~~	Y
59	4	Recordsei Paint Thinner	5 gallon	U		288 ppm	Y
60	4	Benjamin Moore Super Spec (older) (x3)	5 gallon	U		0 ppb	Y
61	4					0	Y
62	4					0	Y
63	4					0	Y
64	4	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~		0	Y
65	4					0	Y

* 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: ppbRAE

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
66	4	Rustoleum Painter's Touch	12oz	U		20.9 ppm	Y
67	4	Bingo	8oz	U	Petroleum Distillates & Ammonia	1649	Y
68	4					0	Y
69	4					0	Y
70	4	NAPA				355 ppb	Y

* 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.

Old

	Room #	Product Description	Size	Condition	Chemical Ingredients	SEP Reading Reading	Picture
47	4	Hydrogen Peroxide By Assured	16 oz	U	3% Hydrogen Peroxide	0	Y
48	4	Cars tanks of pressure washer	1 gallon	U	Gasoline		
49	4	Sunny Side Paint Thinner	16 oz	U	Petroleum Distillates	22.7 ppm	Y
taken Out	4	Sunny Side Brush Cleaner	32 oz	U	Methylene Chloride, Xylene, Methyl Ethyl Ketone, Petroleum Distill	2-5[illegible] ppm	Y
50						2-810 ppm	
taken out	4	Krylon Interior/Exterior Paint	12 oz	U	Ketones, Hydrocarbon Propellents Xylene, Acetates, Ethyl Benzene Toulene	15.1 ppm	Y
51	4						
52		Rust Oleum Appliance Epoxy	12 oz	U	Xylen, Acetone	0	Y
53	4	ASM Pump Defender	5 oz	U	None Listed	1.269 ppm	Y
54	4	Benjamin Moore Super Spec - Latex Paint	1 gallon	U	Titanium Dioxide Calcium Carbonate	0	Y
55	4	Liquid Nails Adhesive (+3)	10.0 oz	UO	Petroleum Distillates, Naphtalene Styrene Butadiene Copolymer Kaolin	0	Y
56	4	Benjamin Moore (+5) S.I. Latex Caulk	10.1 oz	UO	Calcium Carbonate, Acrylic Emulsion Butyl Benzel Phthalate	0	Y
57	4	Benjamin Moore Patching Compound (+3)	1 gallon	UO	Stoddard Solvent, Titanium Dioxid Calcium Carbonate	0	Y
58	4	Benjamin Moore Super Spec - Primer (+3) Exterior/Interior	5 Gallons	U	Linseed Alkyl Resin Stoddard Solvent, Titanium Dioxid	0.7 ppm	Y
59	4	Racerstar Paint Thinner	5 gallons	U	Stoddard Solvent	5.8[illegible] ppm	Y
60	4	Benjamin Moore (+2) Super Spec - House Paint	5 gallons	UO	Acrylic Resin, Nephlic Syenite Titanium and Zinc Oxide	4.1 ppm	Y
61	4	Simple Green	3 1/2 Liters	UO	None Listed		
62	4	Enamel (Paint on front) Taken out	1 qt	U	Trimethylpintanediol Isobutyrate Acrylic Polymer, Propylene Glycol		Y
63	4	Enamel (Enamel on Front)	1 qt	U	Too much Enamel on Cover		Y
64	4	Lawson Traffic Paint	18 oz	U	Xylene, Toulene		Y
65	4	Mag 1 Motor Oil	1 qt	U	Motor Oil		Y
66	4	Painter's Touch Paint Thinner	12 oz	U	Acetone and Xylene	0	Y
67	4	Brasso Metal Polish	8 oz	U	Ammonia and Petroleum Distillates	8.2 ppm	Y
68	4	Old English Scratch Cover (+4)	8 oz	U	Petroleum Distillates	3.81[illegible] ppm	Y
69	4	Minwax - Wood Finish (+2)	11.5 oz	U	Petroleum Distillates		Y
70	4	NAPA - Premium Steering Fluid	11 oz	UO	Diethy Ether	[illegible]	Y