

November 20, 2023

Adrian Perez Gomez
W4814 County Road S
Black Creek, WI 54106

Re: Vapor Intrusion Assessment
WDNR BRRTS #02-45-000127
Terracon Project No. 582117057

Dear Mr. Perez Gomez,

As part of the ongoing environmental investigation of the NW Mauthe Superfund Site located at 725 S. Outagamie Street in Appleton, Terracon Consultants, Inc (Terracon) has been contracted to assess the risk of vapor intrusion to surrounding properties. The Wisconsin Department of Natural Resources (WDNR) previously contacted you regarding the forthcoming assessment activities and executed an access agreement with you.

Vapor intrusion is the process by which chemical vapors in the ground enter a building through gaps or cracks in the foundation or other pathways. The WDNR requires specific information to confirm that vapor intrusion is not a risk at individual buildings. Your home located at 715 S. Outagamie St lies within the designated vapor intrusion assessment area.

The assessment consists of:

- Inspecting the building for general condition and materials that could affect indoor air quality;
- Installing sub-slab vapor sampling ports in the basement floor slab;
- Sealing the water collection sump crock (if present) with an air-tight lid; and
- Collecting samples of sub-slab vapor, indoor air, and sump headspace air.

Sub-slab vapor sampling ports are installed by drilling small, 5/8-inch diameter holes through the concrete floor slab using simple hand-held drill tools. No large equipment is needed. Stainless steel sample ports will be installed in the holes from which we will collect vapor samples. It will take approximately one (1) hour to install the sampling ports. Upon completion of the installation, the sampling ports will be closed with a flush-mounted cover but will remain in place pending sample results. At the completion of the investigation, the sample ports will be removed and the holes will be patched with concrete.

Indoor air samples will be collected from the basement and first floor of your home in metal canisters over a 24-hour period. The canisters can be placed at locations convenient for you, but must be between 3 and 5 feet above the floor and away from open windows, with preference for areas near floor penetrations such as in bathrooms. Sub-slab vapor samples will also be collected in metal canisters over the same time period as the indoor air samples.

Terracon does not anticipate there will be any damage to your property from the sampling activities. Nonetheless, Terracon agrees to promptly repair any damages to your property should any occur as a result of our activities.

The initial vapor intrusion assessment tasks will be completed in two separate visits to your home as follows:

Visit #1 (Tentatively December 4-5, 2023)

- Inspection and documentation of building conditions
- Installation of sub-slab vapor sampling ports

Visit #2 (Tentatively December 18-19, 2023)

- Seal the water collection sump (if present)
- Collect sub-slab vapor, indoor air, and sump headspace samples

These dates are our initial preferred dates. Please respond as soon as possible to confirm these dates or suggest other agreeable dates and times for the vapor intrusion assessment work. Terracon will need access for two consecutive days for the sampling activities. Additionally, a Vapor Intrusion Building Survey Form is attached. It would be very helpful if you could add as much information as possible to the form prior to our first visit. I would be happy to mail a copy of the form for convenience.

If you have any questions, or to schedule the inspection and sampling dates, please contact me at 414-209-7647 or bjkappen@terracon.com. The WDNR project manager Gwen Saliaries can be reached at 920-510-4343 or by email at gwen.saliaries@wisconsin.gov. We greatly appreciate your help and patience with this matter.

Sincerely,
Terracon Consultants, Inc.



Brian Kappen, P.G.
Senior Project Manager

Attachments – Vapor Intrusion Building Survey Form

Copy to: Gwen Saliaries, WDNR-Oshkosh



4900 S. Pennsylvania Ave, Ste 100
Cudahy, WI 53110-1347
P (414) 423-0255
terracon.com

November 20, 2023

Nicole and Nathan Beardsly
801 S. Outagamie Street
Appleton, WI 54914

Re: Vapor Intrusion Assessment
WDNR BRRTS #02-45-000127
Terracon Project No. 582117057

Dear Mr. and Mrs. Beardsly,

As part of the ongoing environmental investigation of the NW Mauthe Superfund Site located at 725 S. Outagamie Street in Appleton, Terracon Consultants, Inc (Terracon) has been contracted to assess the risk of vapor intrusion to surrounding properties. The Wisconsin Department of Natural Resources (WDNR) previously contacted you regarding the forthcoming assessment activities and executed an access agreement with you.

Vapor intrusion is the process by which chemical vapors in the ground enter a building through gaps or cracks in the foundation or other pathways. The WDNR requires specific information to confirm that vapor intrusion is not a risk at individual buildings. Your home located at 801 S. Outagamie St lies within the designated vapor intrusion assessment area.

The assessment consists of:

- Inspecting the building for general condition and materials that could affect indoor air quality;
- Installing sub-slab vapor sampling ports in the basement floor slab;
- Sealing the water collection sump crock (if present) with an air-tight lid; and
- Collecting samples of sub-slab vapor, indoor air, and sump headspace air.

Sub-slab vapor sampling ports are installed by drilling small, 5/8-inch diameter holes through the concrete floor slab using simple hand-held drill tools. No large equipment is needed. Stainless steel sample ports will be installed in the holes from which we will collect vapor samples. It will take approximately one (1) hour to install the sampling ports. Upon completion of the installation, the sampling ports will be closed with a flush-mounted cover but will remain in place pending sample results. At the completion of the investigation, the sample ports will be removed and the holes will be patched with concrete.

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Sincerely,
Terracon Consultants, Inc.



Brian Kappen, P.G.
Senior Project Manager

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November 20, 2023

Erik Anderson
110 N. Douglas Street
Appleton, WI 54914

Re: Vapor Intrusion Assessment
WDNR BRRTS #02-45-000127
Terracon Project No. 582117057

Dear Mr. Anderson,

As part of the ongoing environmental investigation of the NW Mauthe Superfund Site located at 725 S. Outagamie Street in Appleton, Terracon Consultants, Inc (Terracon) has been contracted to assess the risk of vapor intrusion to surrounding properties. The Wisconsin Department of Natural Resources (WDNR) previously contacted you regarding the forthcoming assessment activities and executed an access agreement with you.

Vapor intrusion is the process by which chemical vapors in the ground enter a building through gaps or cracks in the foundation or other pathways. The WDNR requires specific information to confirm that vapor intrusion is not a risk at individual buildings. Your home located at 1414 W. 2nd Street lies within the designated vapor intrusion assessment area.

The assessment consists of:

- Inspecting the building for general condition and materials that could affect indoor air quality;
- Installing sub-slab vapor sampling ports in the basement floor slab;
- Sealing the water collection sump crock (if present) with an air-tight lid; and
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Sincerely,
Terracon Consultants, Inc.



Brian Kappen, P.G.
Senior Project Manager

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4900 S. Pennsylvania Ave, Ste 100
Cudahy, WI 53110-1347
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November 20, 2023

Anthony McCafferty
1418 W. Melvin Street
Appleton, WI 54914

Re: Vapor Intrusion Assessment
WDNR BRRTS #02-45-000127
Terracon Project No. 582117057

Dear Mr. McCafferty,

As part of the ongoing environmental investigation of the NW Mauthe Superfund Site located at 725 S. Outagamie Street in Appleton, Terracon Consultants, Inc (Terracon) has been contracted to assess the risk of vapor intrusion to surrounding properties. The Wisconsin Department of Natural Resources (WDNR) previously contacted you regarding the forthcoming assessment activities and executed an access agreement with you.

Vapor intrusion is the process by which chemical vapors in the ground enter a building through gaps or cracks in the foundation or other pathways. The WDNR requires specific information to confirm that vapor intrusion is not a risk at individual buildings. Your home located at 1418 W. Melvin St lies within the designated vapor intrusion assessment area.

The assessment consists of:

- Inspecting the building for general condition and materials that could affect indoor air quality;
- Installing sub-slab vapor sampling ports in the basement floor slab;
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Terracon Consultants, Inc.



Brian Kappen, P.G.
Senior Project Manager

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4900 S. Pennsylvania Ave, Ste 100
Cudahy, WI 53110-1347
P (414) 423-0255
terracon.com

November 20, 2023

Debra Terry
1428 W. 2nd Street
Appleton, WI 54914

Re: Vapor Intrusion Assessment
WDNR BRRTS #02-45-000127
Terracon Project No. 582117057

Dear Ms. Terry,

As part of the ongoing environmental investigation of the NW Mauthe Superfund Site located at 725 S. Outagamie Street in Appleton, Terracon Consultants, Inc (Terracon) has been contracted to assess the risk of vapor intrusion to surrounding properties. The Wisconsin Department of Natural Resources (WDNR) previously contacted you regarding the forthcoming assessment activities and executed an access agreement with you.

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The assessment consists of:

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Terracon Consultants, Inc.



Brian Kappen, P.G.
Senior Project Manager

Attachments – Vapor Intrusion Building Survey Form

Copy to: Gwen Saliaries, WDNR-Oshkosh



4900 S. Pennsylvania Ave, Suite 100
 Cudahy, Wisconsin 53110
 P (414) 423-0255

Vapor Intrusion Building Survey Form

(Adapted from MPCA)

Doc Type: Site Inspection Information

Instructions: Complete the vapor intrusion building survey form to document general building characteristics, points where soil gas may enter the building, and identify potential indoor contaminant sources.

Preparer's name: _____ Date (mm/dd/yyyy): _____

Affiliation: _____ Time prepared: _____ am pm

Email: _____ Phone number: _____

Part 1: Property owner and building occupant information

1. Owner/Landlord information

Individual or corporate name: _____ Interviewed? Yes No

Mailing address: _____

City: _____ State: _____ Zip code: _____

Phone: _____ Email: _____

Alternative contact name (if any): _____ Phone: _____

2. Occupant information (Check if same as owner:)

Occupant name(s): _____ Interviewed? Yes No

Mailing address: _____

City: _____ State: _____ Zip code: _____

Phone: _____ Email: _____

Number of occupants at this location: _____ Age range of occupants: _____

Part 2: Building evaluation

3. Building use (Check appropriate response)

Residential Child/Day Care School Church Hospital Long-term care facility Correctional facility

Commercial Industrial

Other (specify): _____

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

Ranch rambler Raised rambler Townhouses/Condos Duplex Modular 2-Family

Split level Contemporary Apartment house Cape cod Log home 3-Family

Colonial Mobile home Other (specify): _____

4. Building description

If the property is commercial or industrial, describe the business use(s):

Indicate the number of floors and general use of each floor of the building beginning with lowest level:

If there are multiple residential units, indicate how many units: _____ When was building constructed: _____
 Type of insulation used in building: _____ Elevators or lifts: Yes No
 Basement/Lowest level depth below grade: _____ (feet)

Observed basement characteristics (Check all that apply)

Frequency of basement/lowest level occupancy	<input type="checkbox"/> Full time	<input type="checkbox"/> Occasionally	<input type="checkbox"/> Almost never
Bedrooms in the basement/lowest level?	<input type="checkbox"/> Yes <input type="checkbox"/> No	If yes, are the bedrooms occupied regularly? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Basement type	<input type="checkbox"/> Full	<input type="checkbox"/> Partial	<input type="checkbox"/> Slab <input type="checkbox"/> Other: _____
Floor materials	<input type="checkbox"/> Concrete	<input type="checkbox"/> Dirt	<input type="checkbox"/> Stone <input type="checkbox"/> Other: _____
Floor covering	<input type="checkbox"/> Uncovered	<input type="checkbox"/> Covered	<input type="checkbox"/> Covered with: _____
Concrete floor	<input type="checkbox"/> Unsealed	<input type="checkbox"/> Sealed	<input type="checkbox"/> Sealed with: _____
Foundation walls	<input type="checkbox"/> Poured	<input type="checkbox"/> Block	<input type="checkbox"/> Stone <input type="checkbox"/> Other: _____
Basement finished	<input type="checkbox"/> Unfinished	<input type="checkbox"/> Finished	<input type="checkbox"/> Partially finished
Basement wetness	<input type="checkbox"/> Wet	<input type="checkbox"/> Damp	<input type="checkbox"/> Seldom <input type="checkbox"/> Moldy
Sump pump present	<input type="checkbox"/> Yes <input type="checkbox"/> No	If yes, was water present: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Are there any crawl spaces present?	<input type="checkbox"/> Yes <input type="checkbox"/> No	If yes, describe the crawl space floor conditions (earth, concrete, etc.) and construction (walls, use, connectivity to building, etc.) and illustrate location on the attached grid plans: _____ _____ _____	
Have there been any building additions?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Describe addition construction including how it ties to the existing floor plan (footings, slab connectivity, etc.) illustrate locations of additions on the attached grid plans: _____ _____ _____	

Thickness of the concrete floor slab in the lowest level(s): _____ inches

Soil type present beneath the building: _____

Is there evidence of saturated or high moisture conditions beneath the floor slab? Yes No

If yes, explain:

Indicate sources of water supply sources (i.e., drinking, irrigation, etc.) and type of sewage disposal (Check all that apply)

- Water supply: Public water Drilled well Driven well Dug well
 Sewage disposal: Public sewer Septic tank Leach field Dry well

5. Heating, venting, air conditioning, or other building controls (Check all that apply)

Type of heating system(s) used in this building (Check all that apply)

- Hot air circulation Space heaters Electric baseboard In-floor heating Heat pump

Steam radiation Wood stove Hot water baseboard Radiant floor Outdoor wood boiler

Other (specify): _____ **Primary type:** _____

Primary type of fuel used (Check appropriate response)

Natural gas Fuel oil Kerosene Electric Propane
 Solar Wood Coal

If hot water tank present, indicate fuel source: _____

Boiler/furnace is located in: Basement Outdoors Main floor Other: _____

Type of air conditioning: Central air Window units Open windows No mechanical system

Is outside replacement (make-up) air provided for combustion appliances? Yes No

If no, explain:

Are there air distribution ducts present? Yes No

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:

Describe the type of mechanical ventilation systems used within or for the building (e.g., air-to-air exchangers, HVAC, etc.). Indicate whether the interior spaces of the building use separate ventilation systems and/or controls. Provide information on any existing building mitigation system (e.g., radon mitigation, passive venting systems, etc.). If available, provide information on air exchange rates for any existing mechanical ventilation systems currently in use.

6. Summary of potential building vapor intrusion entry points

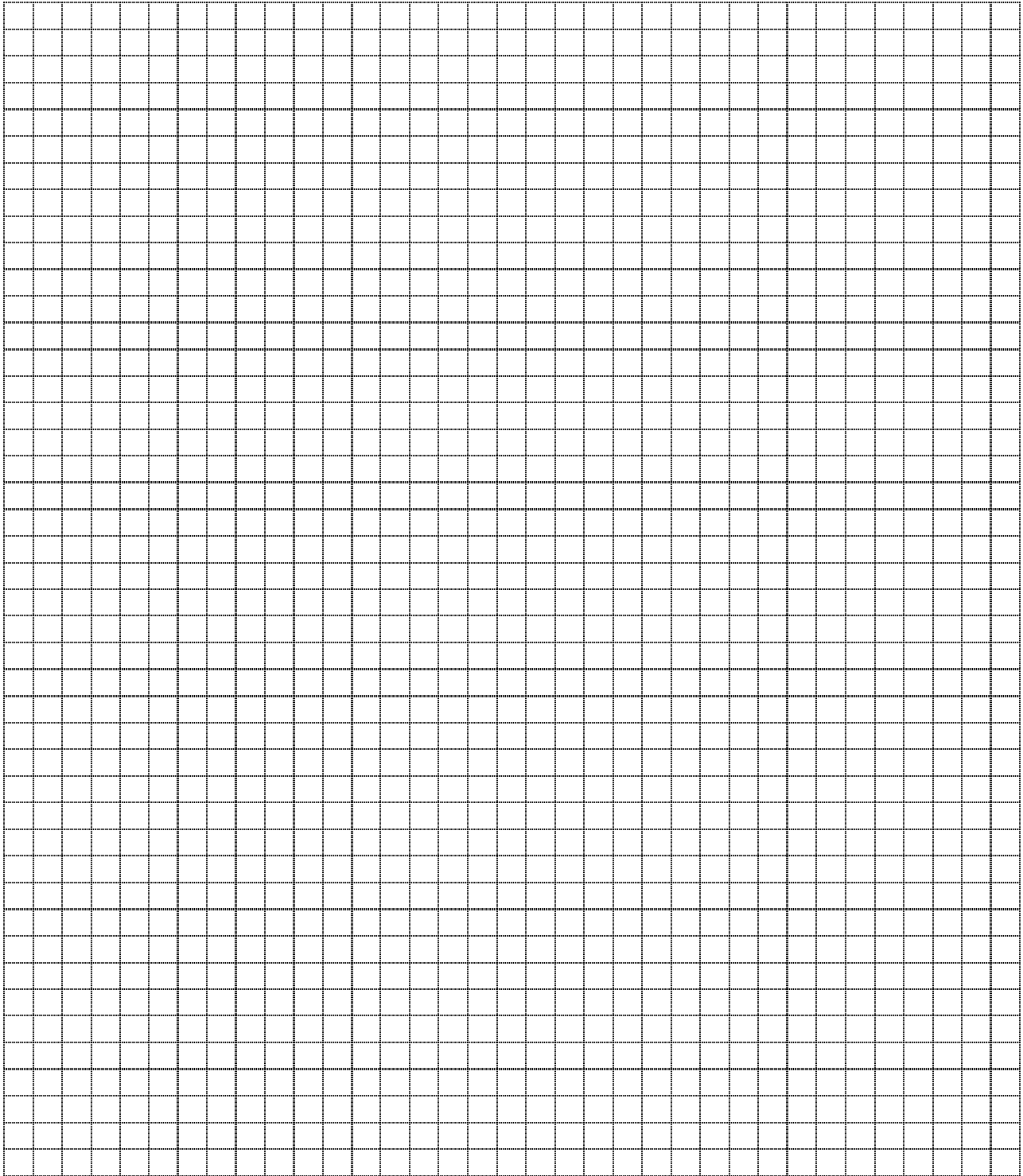
Earthen floors or incompetent floor slabs in the lowest level of building? Yes No
Sumps (unsealed)? Yes No
Large utility penetrations through floor and/or walls with exposure to sub-surface soils? Yes No
Crawl spaces with earthen floors or incompetent floor conditions? Yes No
Other (describe below) Yes No

7. Is the use of the vapor intrusion attenuation factor (33X ISV screening level) valid for this building based on the above building conditions? Yes No

8. Grid plans

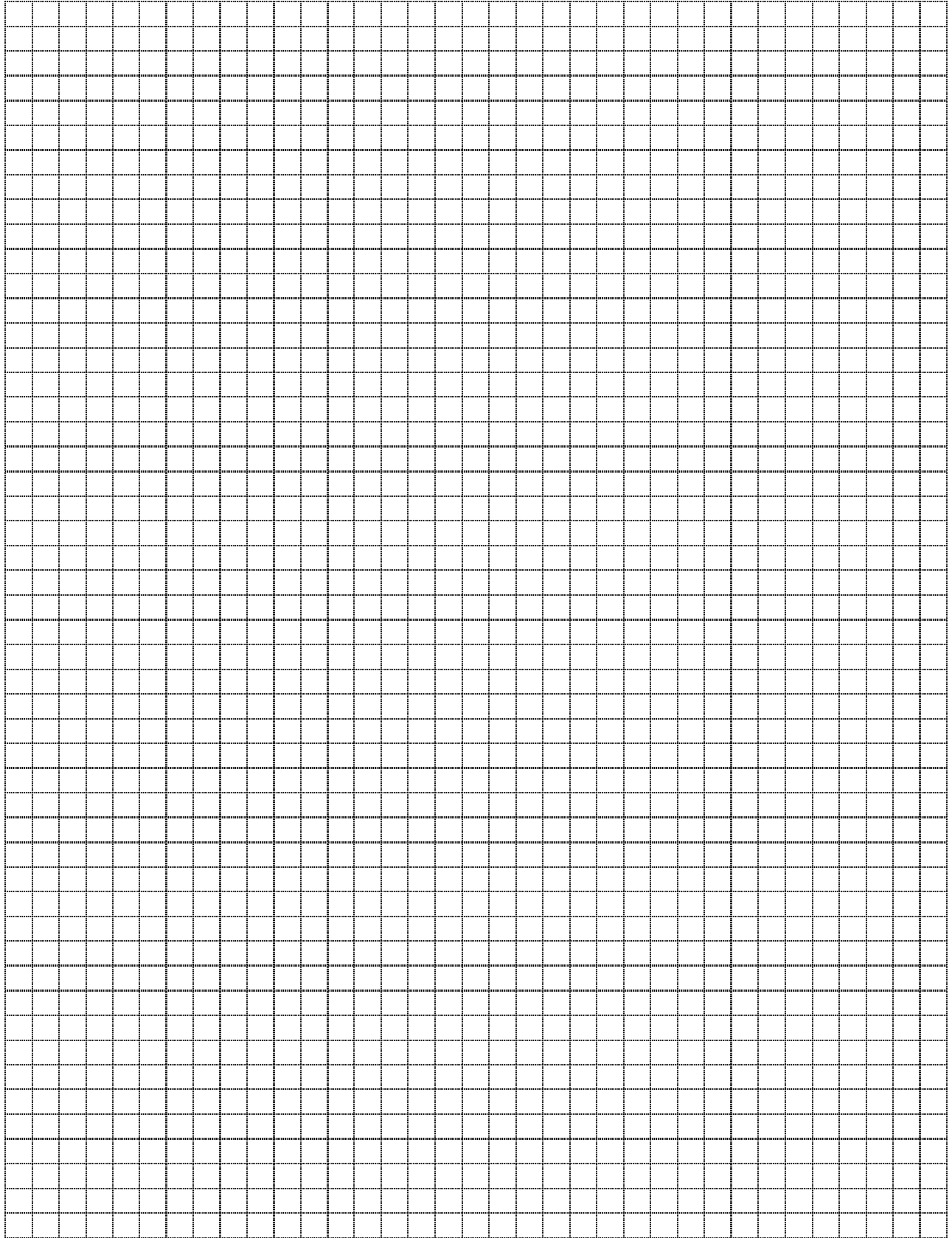
Use grid plans to describe floor plans, locate potential soil vapor entry points (e.g., cracks, utility ports, drains); and if applicable, identify sample locations (sub-slab, indoor air, outdoor air sampling).

Floor plan for basement or lowest level at property address: _____



Scale: _____ **North (indicate direction):** _____

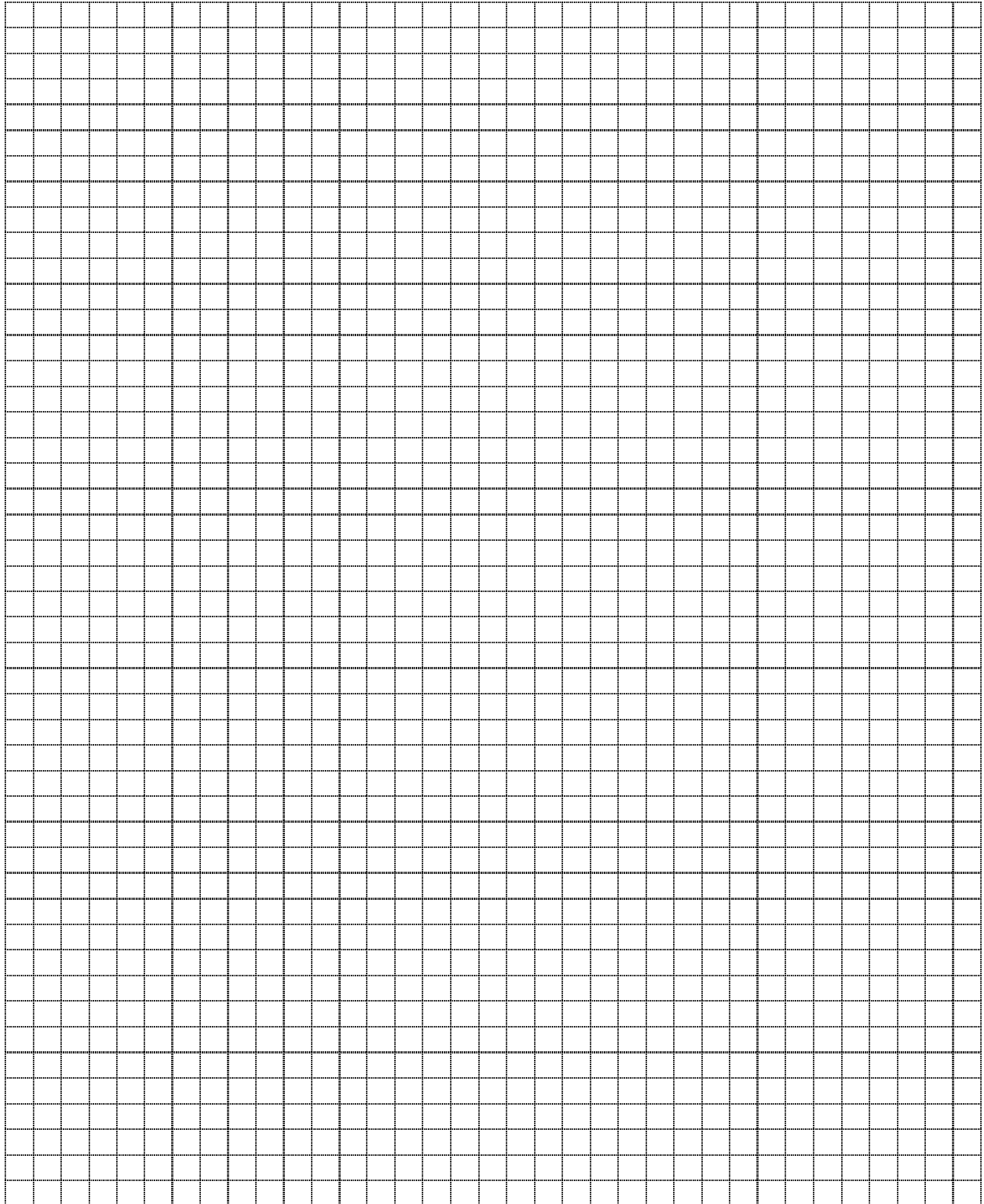
Floor above lowest level at property address: _____



Scale: _____ North (indicate direction): _____

Outdoor grid plot (Include if outdoor ambient air samples collected):

Insert sketch (or attach separate document) of the area outside the building and locate outdoor air sample locations. If applicable, provide information on spill locations, potential air contamination sources, locations of wells, septic system, etc., and PID meter readings. Indicate wind direction and speed during sampling.



Part 3: Indoor air quality survey

Complete if indoor air sampling is conducted (use grids in Part 1 for labeling sampling locations).

Factors that may influence indoor air quality:

Is there an attached garage?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Are petroleum-powered machines or vehicles stored in the garage (e.g., lawn mower, ATV, car)?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Please specify: _____
Has the building ever had a fire?	<input type="checkbox"/> Yes <input type="checkbox"/> No	When: _____
Is a kerosene or unvented gas space heater present?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Where & type: _____
Is there smoking in the building?	<input type="checkbox"/> Yes <input type="checkbox"/> No	How frequently: _____
Have cleaning products been used recently?	<input type="checkbox"/> Yes <input type="checkbox"/> No	When & type: _____
Have cosmetic products been used recently?	<input type="checkbox"/> Yes <input type="checkbox"/> No	When & type: _____
Has painting/staining been done in the last 6 months?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Where & when: _____
Has any remodeling or construction occurred in the last 6 months?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Where & when: _____
Is there new carpet, drapes, or other textiles?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Where & when: _____
Have air fresheners been used recently?	<input type="checkbox"/> Yes <input type="checkbox"/> No	When & type: _____

Is there a clothes dryer?	<input type="checkbox"/> Yes <input type="checkbox"/> No	If yes, is it vented outside: _____
Are there odors in the building?	<input type="checkbox"/> Yes <input type="checkbox"/> No	If yes, please describe: _____

Do any of the building occupants use solvents at work?	<input type="checkbox"/> Yes <input type="checkbox"/> No
If yes, what types of solvents are used: _____	

Do any of the building occupants regularly use or work at a dry-cleaning service?	<input type="checkbox"/> Yes <input type="checkbox"/> No
If yes, indicate approximately how frequent: _____	

Product inventory form (Add additional rows if needed)

Make and model of field instrument used: _____

List specific products identified in the building that have the potential to affect indoor air quality (add or delete rows as needed):

Location	Product description*	Comments	Instrument readings if taken and units

* Describe the condition of the product containers as unopened (UO), used (U), or deteriorated (D). Include photographs of product containers as appropriate to document products and ingredients.

