

Date: October 29, 2024

To: Renata Ockerby, New York State Department of Health (NYSDOH)

Steven Scharf, New York State Department of Environmental Conservation (NYSDEC)

From: Charlie McGuckin, Roux Environmental Engineering and Geology, D.P.C.

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Subject: Indoor Air Sampling Results

Former RUCO Polymers Site (Hooker Chemical OU-4 #130004)

125 New South Road, Hicksville, New York

The installation of the vapor barrier and sub-slab depressurization system (SSDS) at the Former RUCO Polymers Site (Site) located at 125 New South Road, Hicksville, New York was completed in June 2024 and the SSDS has been operating since August 27, 2024. In preparation for occupancy, indoor air sampling to support a Soil Vapor Intrusion (SVI) assessment was completed by Roux upon construction completion. Roux conducted the indoor air sampling on October 2, 2024, in accordance with the scope of work outlined in the SSDS memorandum dated September 24, 2024, which was approved by the NYSDEC and NYSDOH via email on September 11, 2024 and the 2006 New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York, revised February 2024 (NYSDOH SVI Guidance). Sub-slab pressure differential measurements were included in the memorandum dated September 24, 2024. Four indoor air samples and one outdoor ambient air sample were collected over an 8-hour time period using laboratory supplied batch-certified, vacuum canisters equipped with 8-hour calibrated flow regulators. Field parameters were recorded on air sampling data forms for each sample. All samples were submitted to a certified NYSDOH Environmental Laboratory Approval Program (ELAP) laboratory for volatile organic compounds (VOCs) analysis via USEPA Method TO-15.

Indoor air sampling locations can be found as Attachment 1. As requested by the NYSDOH, all indoor air analytical data is provided in Table 1. A full evaluation of the validated analytical data will be included in the SVI assessment section of the Construction Completion Report (CCR). The completed NYSDOH Indoor Air Quality Questionnaire and Building Inventory Center for Environmental Health is included as Attachment 2.

Indoor Air Sampling Results 125 New South Road, Hicksville, New York

TABLES

1. Indoor Air Analytical Data

3171.0018Y121/CVRS ROUX

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 125 New South Road, Hicksville, New York

Sample Design	anation:	IA-1	IA-2	IA-3	IA-4	OA-1
		10/02/2024			10/02/2024	
Normal Sample or Field Du		N	N	N	N	N
Parameter	Units					
1,1,1-Trichloroethane (TCA)	UG/M3	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1,2,2-Tetrachloroethane	UG/M3		1.37 U	1.37 U	1.37 U	1.37 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/M3	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U
1,1,2-Trichloroethane	UG/M3	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1-Dichloroethane	UG/M3		0.81 U	0.81 U	0.81 U	0.81 U
1,1-Dichloroethene	UG/M3		0.2 U	0.2 U	0.2 U	0.2 U
1,2,4-Trichlorobenzene	UG/M3	3.71 U	3.71 U	3.71 U	3.71 U	3.71 U
1,2,4-Trimethylbenzene	UG/M3	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
1,2-Dibromoethane (Ethylene Dibromide)	UG/M3		1.54 U	1.54 U	1.54 U	1.54 U
1,2-Dichlorobenzene	UG/M3		1.2 U	1.2 U	1.2 U	1.2 U
1,2-Dichloroethane	UG/M3		0.81 U	0.81 U	0.81 U	0.81 U
1,2-Dichloropropane	UG/M3	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
1,2-Dichlorotetrafluoroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
1,3-Butadiene	UG/M3		0.44 U	0.44 U	0.44 U	0.44 U
1,3-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dichlorobenzene	UG/M3		1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dioxane (P-Dioxane)	UG/M3	18 U	18 U	18 U	18 U	18 U
2,2,4-Trimethylpentane	UG/M3	0.93 U	0.93 U	0.18 J	0.93 U	0.93 U
2-Chlorotoluene	UG/M3	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
2-Hexanone	UG/M3	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U
4-Ethyltoluene	UG/M3	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Acetone	UG/M3	7.1 J	7.38 J	7.17 J	7.98 J	3.99 J
Allyl Chloride (3-Chloropropene)	UG/M3	1.57 U	1.57 U	1.57 U	1.57 U	1.57 U
Benzene	UG/M3	0.19 J	0.64 U	0.27 J	0.16 J	0.14 J
Benzyl Chloride	UG/M3	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Bromodichloromethane	UG/M3	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform	UG/M3	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane	UG/M3	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U
Butane	UG/M3	2.63	0.94 J	1.41	0.99 J	0.61 J
Carbon Disulfide	UG/M3		1.56 U	0.46 J	1.56 U	1.56 U
Carbon Tetrachloride	UG/M3	0.24	0.25	0.25	0.2 J	0.25
Chlorobenzene	UG/M3		0.92 U	0.92 U	0.92 U	0.92 U
Chlorodifluoromethane	UG/M3		0.68 J	0.71 J	0.68 J	0.7 J
Chloroethane	UG/M3	1.32 U	1.32 U	1.32 U	1.32 U	1.32 U
Chloroform	UG/M3	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Chloromethane	UG/M3	0.77 J	0.71 J	0.77 J	0.75 J	0.75 J
Cis-1,2-Dichloroethylene	UG/M3	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U



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Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 125 New South Road, Hicksville, New York

Sample Design		IA-1	IA-2	IA-3	IA-4	OA-1
Samp	le Date:	10/02/2024	10/02/2024	10/02/2024	10/02/2024	10/02/2024
Normal Sample or Field Du	ıplicate:	N	N	N	N	N
Parameter	Units					
Cis-1,3-Dichloropropene	UG/M3	0.91 U				
Cyclohexane	UG/M3	0.69 U	0.69 U	0.69 U	0.24 J	0.69 U
Cymene	UG/M3	1.1 U				
Dibromochloromethane	UG/M3	1.7 U				
Dichlorodifluoromethane	UG/M3	1.34 J	1.5 J	1.37 J	1.47 J	1.5 J
Ethylbenzene	UG/M3	0.62 J	0.4 J	0.87 U	0.87 U	0.87 U
Hexachlorobutadiene	UG/M3	2.13 U				
Isopropanol	UG/M3	12.3 U				
Isopropylbenzene (Cumene)	UG/M3	0.98 U				
m,p-Xylene	UG/M3	2.97	1.96 J	0.9 J	2.17 U	2.17 U
Methyl Ethyl Ketone (2-Butanone)	UG/M3	1.47 U				
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	UG/M3	2.05 U				
Methyl Methacrylate	UG/M3	2.05 U				
Methylene Chloride	UG/M3	1.74 U				
Naphthalene	UG/M3	2 U	2 U	2 U	2 U	2 U
N-Butylbenzene	UG/M3	1.1 U				
N-Heptane	UG/M3	0.82 U	0.82 U	0.27 J	0.82 U	0.82 U
N-Hexane	UG/M3	0.44 J	1.76 U	0.45 J	1.76 U	1.76 U
N-Propylbenzene	UG/M3	0.98 U				
O-Xylene (1,2-Dimethylbenzene)	UG/M3	1.14	0.73 J	0.33 J	0.87 U	0.87 U
Sec-Butylbenzene	UG/M3	1.1 U				
Styrene	UG/M3	0.85 U				
T-Butylbenzene	UG/M3	1.1 U				
Tert-Butyl Alcohol	UG/M3	15.2 U				
Tert-Butyl Methyl Ether	UG/M3	0.72 U				
Tetrachloroethylene (PCE)	UG/M3	1.36 U	1.36 U	0.23 J	1.36 U	1.36 U
Tetrahydrofuran	UG/M3	14.7 U				
Toluene	UG/M3	0.57 J	0.43 J	1.06	0.75 U	0.43 J
Trans-1,2-Dichloroethene	UG/M3	0.79 U				
Trans-1,3-Dichloropropene	UG/M3	0.91 U				
Trichloroethylene (TCE)	UG/M3	0.2 U				
Trichlorofluoromethane	UG/M3	0.78 J	0.8 J	0.85 J	0.77 J	0.8 J
Vinyl Bromide	UG/M3	0.87 U				
Vinyl Chloride	UG/M3	0.2 U				

J - Estimated value

U - Indicates that the compound was analyzed for but not detected ug/m³ - Micrograms per cubic meter
Bold data indicates that parameter was detected



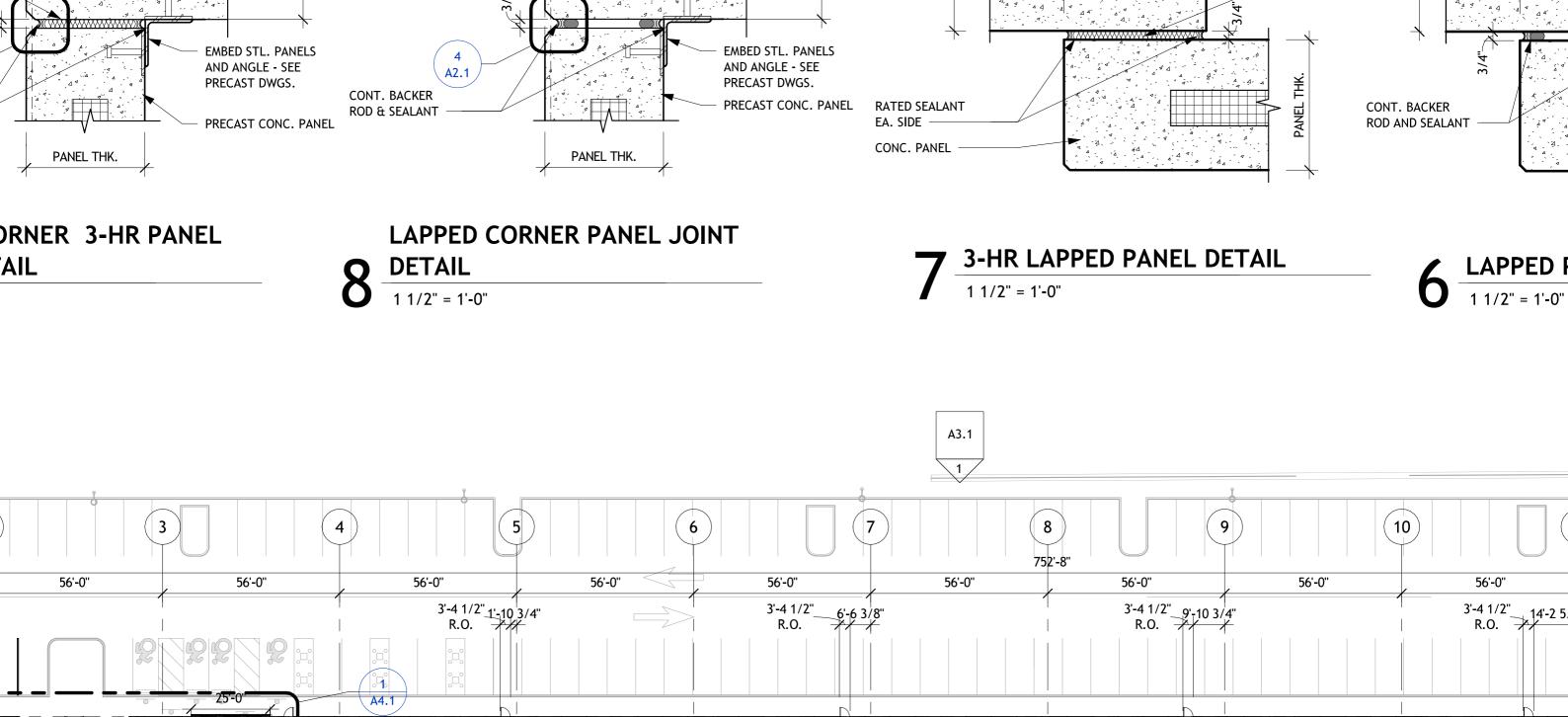
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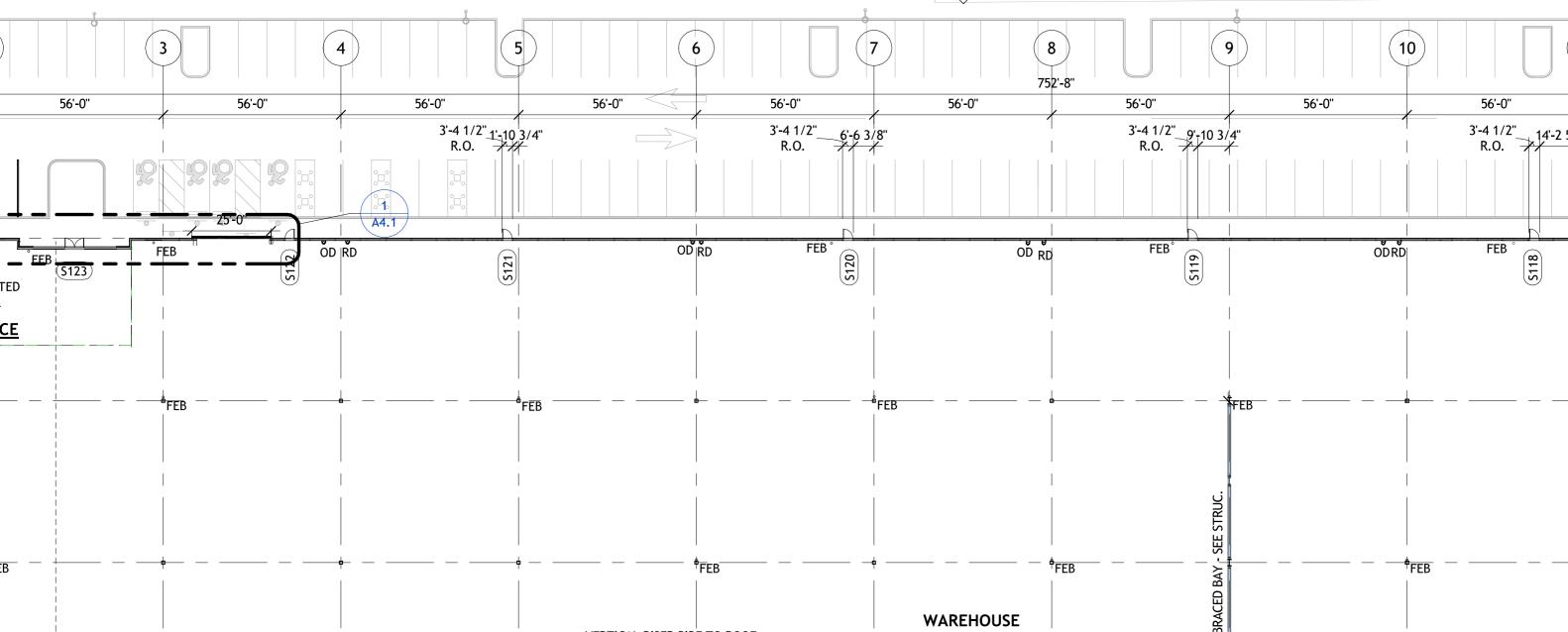
Pre-Validation Soil Vapor Intrusion Assessment Results 125 New South Road, Hicksville, New York

ATTACHMENT 1

Indoor Air Sampling Locations

3171.0018Y121/CVRS ROUX





Pre-Validation Soil Vapor Intrusion Assessment Results 125 New South Road, Hicksville, New York

ATTACHMENT 2

NYSDOH Indoor Air Quality Questionnaire and Building Inventory Center for Environmental Health

3171.0018Y121/CVRS ROUX

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 Ash	ley lervolino	Date/Time Prepared10/2/2024, 15:00
_		v. Consultant Phone No. 631-455-9676
		ntrusion Assessment
1. OCCUPANT:	Property loca	ted at 125 New South Road, Hicksville, NY
Interviewed: Y/N		
Last Name:		First Name:
Address:	Build	ling is Unoccupied
County:		
Home Phone:	Offic	ce Phone:
Number of Occupants/po	ersons at this locatio	n Age of Occupants
2. OWNER OR LAND Interviewed: Y/N	LORD: (Check if s	ame as occupant)
Pictor Nassau Last Name:	Logistics Center LLC	First Name:
Address: 250 Vese	y Street, 15th	Floor, New York, NY 10281
County: NYC		
		ce Phone: 2124177000
3. BUILDING CHARA Type of Building: (Circ		nse)
Residential	School Church	Commercial/Multi-use

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

Ranch Raised Ranch	2-Family Split Level	3-Family Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other:
If multiple units, how ma	ny?	
If the property is commen	cial, type?	
Business Type(s) War	rehouse	
Does it include residen	aces (i.e., multi-use)? Y	If yes, how many?
Other characteristics:		
Number of floors 1 partial enclosed second	_and Bu: floor	ilding age <1 year
mezzanine Is the building insulated	? Y/N Ho	w air tight? Tight / Average / Not Tight
4. AIRFLOW		
Use of a comment to be seen		ainflow wattoms and smalltatively describe.
Use air current tubes or t	racer smoke to evaluate	airflow patterns and qualitatively describe:
Airflow between floors		4015 411 111
		varehouse with an average approx. 40' feet high ceilings
The second floor is a sm	all partial enclosed sec	ond floor mezzanine
Airflow near source		
	of the building, air flow is	open. Airflow is limited in office spaces and the partial
mezzanine due to rooms		
	and banding wants	
O-41 '- '- C14 - 4'		
Outdoor air infiltration	varahayaa anaaa thrayah	trucking loading doors, which may be onen with an without
	-	trucking loading doors, which may be open with or without
truck trailers loaded into	bays.	
Infiltration into air ducts		
roof fans are equipped w	ith back draft dampers	and blocking

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

a. Above grade construct	ion: wood f	rame concre	ete stone	brick	
b. Basement type:	full	crawls	space slab	other n/a	
c. Basement floor:	concre	te dirt	stone	other n/a	
d. Basement floor:	uncove	ered covere	ed covered	_{1 with} n/a	
e. Concrete floor:	unseale	ed sealed	sealed	with	
f. Foundation walls:	poured	block	stone	other	
g. Foundation walls:	unseale	ed sealed	sealed	with	
h. The basement is: n/a	We	et damp	dry	moldy	
i. The basement is:	finishe	d unfini	shed partiall	y finished	
j. Sump present? k. Water in sump? Basement/Lowest level depth	Y/N Y/N/not app below grade:				
nine soil vapor points were vapor barrier/SSD s	entry points and e installed into t	approximate s	ab during the in	stallation of the building	gs -
6. HEATING, VENTING a Type of heating system(s) use Hot air circulation Space Heaters Electric baseboard	ed in this buildin Heat p	g: (circle all th ump radiation	11 27	ooard	
The primary type of fuel used	d is:				
Natural Gas Electric Wood	Fuel O Propan Coal		Kerosene Solar		
	2 0100	ctric tanks			
Domestic hot water tank fuel Boiler/furnace located in:	2 0100	ctric tanks	Main Floor	_{Other} n/a	

Are there air distribution ducts pre	esent?
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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.

Duct work is present on the roof of the warehouse/office spaces. Duct work is newly constructed and appears to be in good condition with tight duct joints and no punctures or penetrations observable.

7. OCCUPANCY

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

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

Basement | No Basement | Warehouse space, office space | partial enclosed second floor mezzanine | |

Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor | Jan Floor |

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

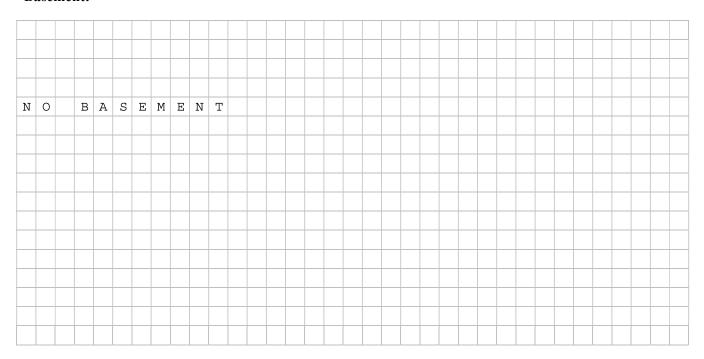
a. Is there an attached garage?		Y / N The warehouse space has 38 truck loading bays along the western wai
b. Does the garage have a separate heating unit?		Y/N/ <mark>NA</mark>
c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car)		Y / N / NA Please specify
d. Has the building ever had a fire?		Y/N When?
e. Is a kerosene or unvented gas space heater present?		Y/N Where?
f. Is there a workshop or hobby/craft area?	Y/N	Where & Type?
g. Is there smoking in the building?	Y/N	How frequently?
h. Have cleaning products been used recently?	Y/N	When & Type?
i. Have cosmetic products been used recently?	Y/N	When & Type?

j. Has painting/sta	ining been done	in the last 6 mo	onths? Y/N	Where & Wh	yes, feb - oct 2024 en?
k. Is there new car	pet, drapes or o	ther textiles?	Y / N	Where & Wh	office spaces ~2 months ago
l. Have air freshen	ers been used re	cently?	Y / N	When & Typ	e?
m. Is there a kitch	en exhaust fan?		Y / N		vented?
n. Is there a bathr	oom exhaust fan	?	Y / N	If yes, where	vented? roof
o. Is there a clothe	s dryer?		Y / N	If yes, is it ve	ented outside? Y / N
p. Has there been	a pesticide appli	cation?	Y/N	When & Typ	e?
Are there odors in If yes, please desc		the new construction of	$rac{{ m Y}/}{ m N}$ of the building		
Do any of the buildir (e.g., chemical manufa boiler mechanic, pesti	acturing or labora	tory, auto mech		shop, painting	g, fuel oil delivery,
If yes, what types o	f solvents are use	d?			
If yes, are their clot	hes washed at wo	rk?	Y / N		
Do any of the building response)	ng occupants reg	ularly use or w	ork at a dry-clea	ning service?	(Circle appropriate
Yes, use dry-	cleaning regularly cleaning infrequent a dry-cleaning ser	ntly (monthly or	· less)	<mark>No</mark> Unknown	
Is there a radon miti Is the system active of	gation system fo	r the building/s Active/Passive	structure? Y / <mark>N</mark>	Date of Instal	llation:
although there is no ra and has been operatio 9. WATER AND SE	don mitigation syst nal since August 2	em an active sub		ition system wa	s installed
Water Supply:	Public Water	Drilled Well	Driven Well	Dug Well	Other:
Sewage Disposal:	Public Sewer	Septic Tank	Leach Field	Dry Well	Other:
10. RELOCATION l		•	Not	_{ency)} Resident	ial
b. Residents choo	ose to: remain in	home reloca	ate to friends/fam	ily reloc	ate to hotel/motel
c. Responsibility	for costs associa	ted with reimb	ursement explai	ned? Y/N	I
d. Relocation page	ckage provided a	nd explained to	o residents?	Y / N	1

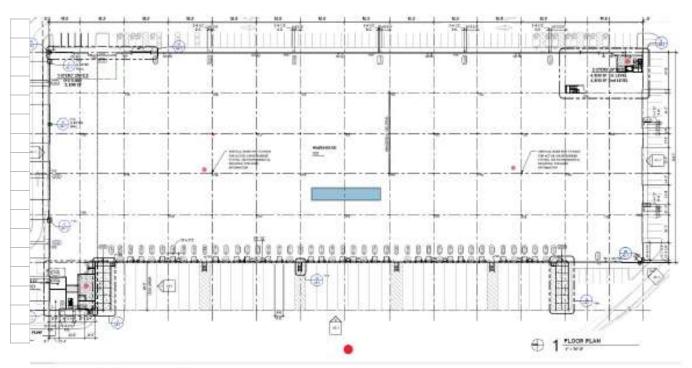
11. FLOOR PLANS

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

Basement:



First Floor:



Sample locations in red

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.



1	12	DDADI	TNIX/I	TATINT	V FORM
	1 1	PROIN			2 V H () K V

Make & Model of field instrument used:	NA
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

^{*} 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.