

Bob Corcoran - 1121 Jerusalem Ave, Uniondale

From: Charles Sosik <csosik2@optonline.net>
To: 'Bob Corcoran' <rkcorcor@gw.dec.state.ny.us>
Date: 10/23/2009 10:06 AM
Subject: 1121 Jerusalem Ave, Uniondale
CC: 'Walter Parish' <wjparish@gw.dec.state.ny.us>, Ernest Lampro <eelampro@gw.dec.state.ny.us>, Merlange Genece <mjgenece@gw.dec.state.ny.us>
Attachments: Uniondale Air Table.pdf; Soil Gas locations.pdf

Bob,

Attached are the results of the sub-slab, indoor and outdoor air testing as specified in the Draft RIWP. We thought it better to go ahead and perform the testing now to see what we have under a worst case condition with the SSDS off for a number of years.

As you will note some VOCs and methane were detected in both sub-slab and indoor air samples. Methane was detected at significantly greater concentrations beneath the slab. The same VOCs parameters were detected in both subslab and indoor air samples suggesting that VOCs are off-gassing as well as methane.

Conditions noted during test:

There are three open test pits through the slab which were loosely covered with plywood.

The building was not ventilated 24 hours prior to the testing or at all for several years

The building has no HVAC system and no HVAC ventilation has occurred.

The indoor air temperature was approximately 85-90 degrees during the test.

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Principal

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_____ Information from ESET NOD32 Antivirus, version of virus signature database 4536 (20091023)

The message was checked by ESET NOD32 Antivirus.

<http://www.eset.com>

TABLE 1
1121 Jerusalem Avenue
Uniondale, New York
Air Sampling Results
Volatile Organic Compounds

Subsurface Soil-Gas Samples - Collected August 7, 2009

COMPOUNDS ANALYZED BY YORK ANALYTICAL LABORATORIES, INC.	EPA Target Indoor Air Concentrations (ug/m ³) ^(b)	EPA Target Shallow Soil Gas Concentrations (ug/m ³) ^(b)	NYSDOH Soil Outdoor Background Levels (ug/m ³) ^(a)	NYSDOH 2003: Indoor Air Upper F (ug/m ³) ^(a)	SS1 (ug/m ³)	SS2 (ug/m ³)	SS3 (ug/m ³)	SS4 (ug/m ³)	IA1 (ug/m ³)	IA2 (ug/m ³)	OA1 (ug/m ³)
1,1,1-Trichloroethane	2200	22,000	<2.0 - 2.8	2.5	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.15	1.5	<1.0	0.4	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.0042	0.42	<1.5	0.4	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	5,000	<1.0	0.4	ND	ND	5.8	ND	ND	ND	ND
1,1-Dichloroethylene	2	2,000	<1.0	0.4	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	20	20,000	NA	0.5	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.06	60	<1.0	9.8	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromomethane	0.00011	0.11	<1.5	0.4	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	2	2,000	<2.0	0.5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.0094	0.94	<1.0	0.4	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	0.04	40	<1.0	0.4	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorotetrafluoroethane	NA	NA	NA	0.4	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.06	60	<1.0	3.9	ND	ND	ND	ND	ND	ND	ND
1,3-Butadiene	0.000087	0.087	NA	NA	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	1.1	1,100	<2.0	0.5	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	8	8,000	NA	1.2	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
2,2,4-Trimethylpentane	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
4-Ethyltoluene	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Acetone	350	3,500	NA	115	ND	ND	ND	ND	ND	ND	ND
Allyl Chloride	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Benzene	0.31	3.1	<1.6 - 4.7	13	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.0014	1.4	<5.0	NA	ND	ND	ND	ND	ND	ND	ND
Bromoform	0.022	22	<1.0	NA	ND	ND	ND	ND	ND	ND	ND
Bromomethane	NA	NA	<1.0	0.5	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	7	7,000	NA	NA	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	0.0016	1.6	<3.1	1.3	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	0.6	600	<2.0	0.4	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Chloroethane	100	100,000	NA	0.4	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.0011	1.1	<2.4	1.2	ND	ND	ND	6.5	ND	ND	ND
Chloromethane	NA	NA	<1.0 - 1.4	4.2	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	NA	NA	<1.0	0.4	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	NA	NA	NA	0.4	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	NA	NA	NA	6.3	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	NA	NA	<5.0	NA	ND	ND	ND	ND	ND	ND	ND
Dichlorobromomethane	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	NA	NA	NA	10.0	ND	ND	ND	ND	ND	ND	ND
Ethyl Acetate	32	32,000	NA	NA	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.022	22	<4.3	6.4	ND	ND	ND	ND	ND	ND	ND
Freon-113	NA	NA	NA	NA	ND	8.6	ND	ND	ND	ND	ND
Hexachloro-1,3-butadiene	NA	NA	NA	0.5	ND	ND	ND	ND	ND	ND	ND
Isopropanol	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Methyl Butyl Ketone	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	10	10,000	NA	16	21	42	4.8	5.7	5.7	7.2	3.9
Methyl Isobutyl Ketone	0.8	800	NA	1.9	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	NA	NA	<3.4	16	ND	ND	ND	ND	ND	ND	ND
MTBE	30	30,000	NA	14	ND	ND	ND	ND	ND	ND	ND
n-Heptane	NA	NA	NA	18	ND	ND	ND	ND	ND	ND	ND
n-Hexane	NA	NA	<1.5	14	ND	3.6	ND	ND	ND	ND	ND
Xylene (o)	7	7,000	<4.3	7.1	ND	ND	ND	ND	ND	ND	ND
Xylene (m&p)	7	7,000	<4.3	11	6.2	7.6	4.4	6.2	ND	8.8	ND
Propylene	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Styrene	10	10,000	<1.0	1.4	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	0.0081	8.1	NA	2.5	ND	ND	ND	ND	ND	ND	ND
Tetrahydrofuran	NA	NA	NA	0.8	ND	ND	ND	ND	ND	ND	ND
Toluene	4	4,000	1.0 - 6.1	57	18	17	10	15	19	18	ND
trans-1,2-Dichloroethene	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.0061	6	NA	NC	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	0.00022	0.22	<1.7	0.5	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	7	7,000	NA	12	ND	ND	ND	ND	ND	ND	ND
Vinyl Acetate	2	2,000	NA	NA	ND	ND	ND	ND	ND	ND	ND
Vinyl Bromide	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.0028	2.8	<1.0	0.4	ND	ND	ND	ND	ND	ND	ND
METHANE	NA	NA	NA	NA	215	920	ND	888	77.6	66.3	ND
Total BTEX	NA	NA	NA	NA	24	25	14	21	19	27	0
Total VOCs	NA	NA	NA	NA	24	70	14	33	25	34	4

Notes:

SG3 Suma canister failed to draw a sample

NA No guidance value or standard available

(a) NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, February 2005, Summary of Background Levels for Selected

(b) USEPA Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils (Subsurface Vapor Intrusion Guidance), Table 2c, Risk=1 x10⁶

Bold text indicates analyte detected above laboratory method detection limit

Shaded text indicates concentration exceeds EPA Deep Soil-Gas guidance value

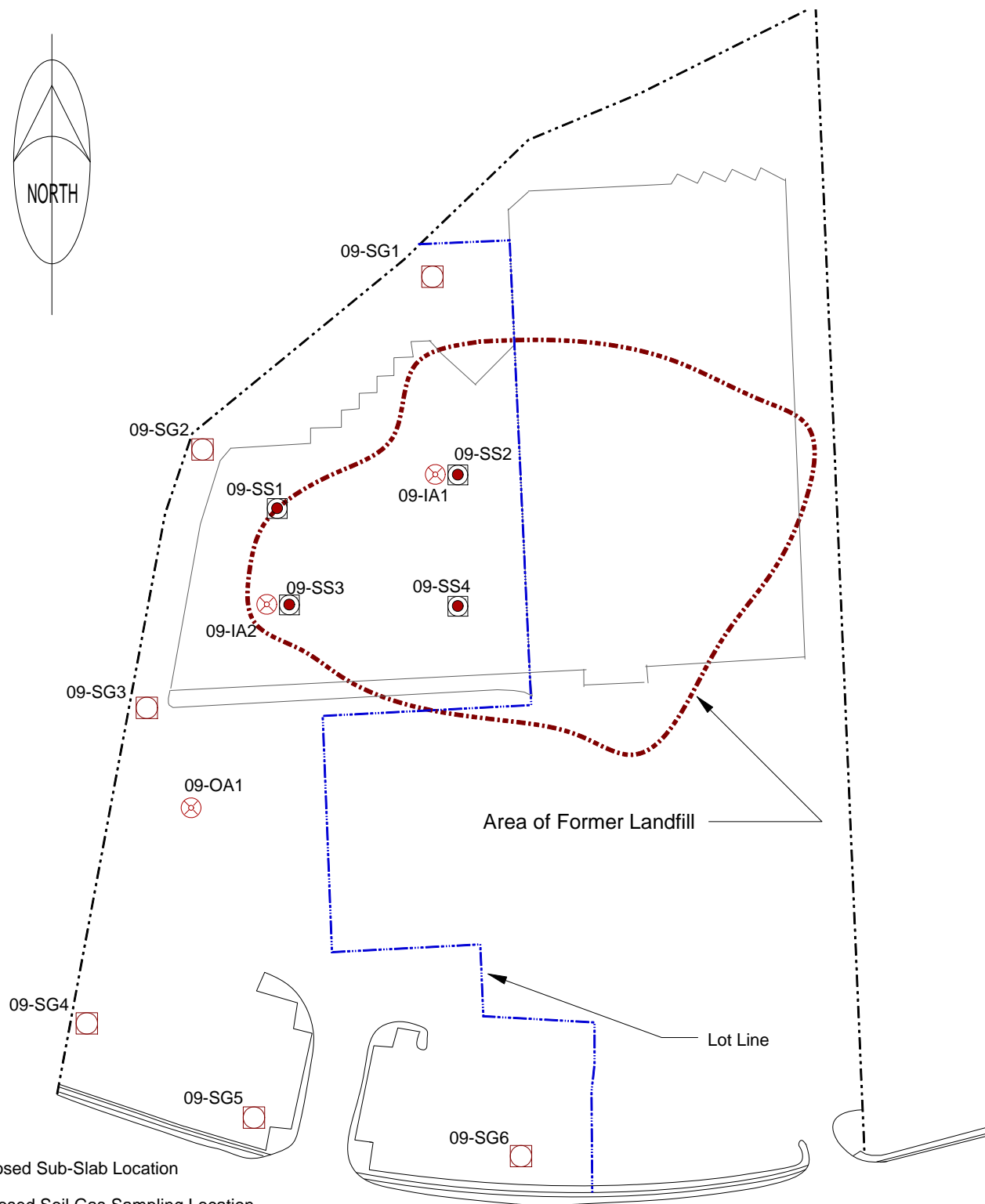
< Indicates that analyte was undetected by laboratory.

D Concentration identified from analysis of sample at a secondary dilution

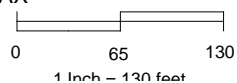
SS - Subslab

IA - Indoor Air

OA - Outdoor Air



- 09-SSX Proposed Sub-Slab Location
- 09-SGX Proposed Soil Gas Sampling Location
- 09-IA/OAX Proposed Indoor/Ambient Air Location



Jerusalem Avenue

Based on Land Title Survey 10/21/96, Barrett, Bonacci, Hyman and Van Weele, P.C.



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FIGURE 5 PROPOSED INDOOR/AMBIENT AIR
AND SOIL GAS LOCATIONS