December 13, 2013

Mr. Ed Olson and Al Timm Voluntary Investigation & Cleanup Program Minnesota Pollution Control Agency 520 Lafayette Road St. Paul, MN 55155

RE: Soil Vapor Sampling Summary Report MN Bio Business Center, Rochester, MN

Dear Ed and Al:

On behalf of the City of Rochester (Client), Landmark Environmental, LLC (Landmark) completed a soil vapor investigation (Investigation) at the above-referenced property (Property) on October 18, 2013. The Investigation was conducted in accordance with the Soil Vapor Sampling Work Plan submitted to the Minnesota Pollution Control Agency (MPCA) Voluntary Investigation and Cleanup (VIC) Program by Landmark on May 2, 2012, and an email from Landmark dated December 13, 2012. These submittals were approved by the MPCA in an email dated December 18, 2012.

Soil gas and sump headspace sampling was conducted to assess the potential risk of vapor intrusion resulting from residual volatile organic compounds (VOC) contamination in the fractured bedrock and groundwater at the Property. Sampling activities were conducted in general accordance with the following MPCA vapor intrusion guidance documents:

- Vapor Intrusion Technical Support Document, Remediation Division, August 2010; and,
- Risk-Based Guidance for the Vapor Intrusion Pathway, Superfund RCRA and Voluntary Cleanup Section, September 2008.

Soil vapor samples were collected from 4 interior soil vapor sampling ports (LSG-7 through LSG-10) in conjunction with collecting air samples from the headspace of each of the two stormwater sumps (SP-1 and SP-2) located in the basement of the Property building (see **Figure 1**). The DPE system was shut down on August 26, 2013, to evaluate the potential contaminant rebound concentrations in the soil vapor and groundwater through August 2014.

Permanent soil vapor sampling ports, LSG-7 through LSG-10, were installed during the December 21, 2012, soil vapor sampling event. These sampling ports were installed by coring 1-inch holes through the foundation walls near the basement ceiling. The samples collected at LSG-7 and LSG-9 were representative of sub-slab soil vapor samples because they were collected below the Property building slab. LSG-7, which was near the former SG-1 sampling location, was collected beneath the slab of Dooley's Pub. LSG-9, the north sampling location,

was collected beneath the slab on grade section of the Property building. These two sample locations are representative of sub-slab samples collected within 1 foot below the bottom of the slab per MPCA requirements. Soil vapor samples, which are not considered "sub-slab" soil vapor samples because they were not located beneath a building slab, were collected at LSG-8 located on the east side of the Property building beneath the sidewalk and LSG-10 located on the west side of the Property building beneath the alley. The soil vapor sample from LSG-8 was collected approximately 6 inches below the concrete surface of the sidewalk. The soil vapor sample LSG-10 was collected approximately 3 feet beneath the concrete surface of the alley. In addition to collecting soil vapor samples at locations LSG-7 through LSG-10, Landmark also collected grab headspace samples from storm sewer sumps SP-1 and SP-2 located in the basement of the Property building.

The soil vapor samples were collected in an evacuated, 1 L (liter) Summa canister equipped with a dedicated pneumatic flow controller. Prior to collecting the soil gas samples, at a minimum, two volumes of air were purged from the sampling train using a hand-operated syringe. The sampling line (1/4-inch outer diameter [O.D.] Teflon tubing) was attached to the canister inlet using a Swagelok nut and set of stainless steel ferrules. The sampling line was attached to the tubing in the soil void created (approximately 1-inch O.D.) using new small length of inert tubing. The pneumatic flow controller was pre-set by the laboratory so that the canister fills at a rate in no less than 10 minutes. The Summa canister was equipped with a pressure gauge to monitor vacuum. The sump pit samples were grab samples collected over approximately 10 minutes. Following the collection of the soil vapor samples, the soil vapor VOC concentration was measured using a photoionization detector (PID). In addition, Summa canister start and end vacuum levels along with PID measurements were recorded on a field sampling forms. The Summa canisters were submitted to Legend Technical Services, Inc. (Legend) for analysis of VOCs using U.S. Environmental Protection Agency (EPA) Method TO-15.

As shown in attached **Table 1**, all of the pre- and post-sampling PID readings at LSG-7 through LSG-10 and SP-1 and SP-2 were zero parts per million (ppm). As shown in the attached analytical summary **Table 2**. All of the detected parameters, except for tetrachloroethene (PCE) at SP-2, were below the MPCA's applicable 10X Commercial/Industrial Intrusion Screening Values (I-ISVs) and the MPCA's 10X Residential Intrusion Screening Values (R-ISVs). The PCE headspace concentration at SP-2 was 10,000 micrograms per cubic meter. The analytical laboratory report from Legend is attached.

The October 18, 2013, soil vapor results show that contaminated soil remediation and DPE system operation at the Property have continued to effectively reduced the soil vapor concentrations on the Property and on adjacent properties. The fact that the soil vapor sampling results did not exceed the R-ISV's and I-ISVs after the DPE system was shut down for 53 days, demonstrates that there is minimal risk of off-site soil vapor migration from the Property to adjacent properties. Sump SP-2, which collects water from the elevator pit drain tile, is vented to the passive venting system.

The next soil vapor sampling event will be conducted in the 1st quarter of 2014. On behalf of the Client, Landmark requests that the MPCA VIC Program review and approve this Investigation report.

Please contact me at <u>jskramstad@landmarkenv.com</u> or 952-877-9601 if you have any comments or questions.

Sincerely,

An D Shand

Jason D. Skramstad

Encl.

cc: Mr. Terry Spaeth, City of Rochester



TABLE 1

October 18, 2013 Soil Vapor Field Readings MN Bio Business Center Rochester, MN

Location	Can	Regulator	Pre PID	Post PID	Start	Post
	Number	Number			Time/Vacuum	Time/Vacuum
LSG-7	00571	42	0.0	0.0	11:15/-27	11:25/-6
LSG-8	00444	57	0.0	0.0	11:32/-27	08:20/-6
LGP-9	00423	21	0.0	0.0	10:46/-28	10:56/-6
LSG-10	00374	19	0.0	0.0	11:04/-27	11:13-6
SP-1	00371	18	0.0	0.0	11:20/-29	11:30/-6
SP-2	00372	9	0.0	0.0	11:10/-29	11:21/-6

Table 2 Soil Vapor Sampling Results MN Bio Business Center Rochester, MN (up/m³)

Image Image ISG-7 ISG-7 <th< th=""><th></th><th>MIDCA</th><th>MDCA</th><th>· · /</th><th></th><th></th><th></th></th<>		MIDCA	MDCA	· · /			
Darameter Dot Sv Ta/Z1/2012 19/Z1/2012 19/Z1/2012 19/Z1/2012 19/Z1/2012 1,1,1-Trichboresthane 10 2 4.4 -3.4 -3.4 -3.4 -3.4 -3.4 -3.4 -3.4 -3.4 -3.4 -3.4 -3.4 -3.4 -3.4 -3.4 -3.4 -3.4 -3.4 -3.4 -3.4 -3.4 -3.4 -3.4 -3.4 -3.4 -3.4 -3.4 -3.4 -3.4 -3.4 -3.4 -3.4 -3.4 -3.4 -3.4 -3.4 -3.4 -3.5 -1.2 -1.1 -1.1 -1.5 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 <t< th=""><th></th><th>IVIPCA</th><th>Rosidantial</th><th>LSG-7</th><th>LSG-7</th><th>LSG-8</th><th>LSG-8</th></t<>		IVIPCA	Rosidantial	LSG-7	LSG-7	LSG-8	LSG-8
aranie 100.100 100.000 400.000 400.000 400.000 400.000 400.000 400.000 400.000 400.000 400.000 400.000 400.000 400.000 400.000 400.000 400.000 400.000 400.000 400.000 400.000 400.000 400.000 400.000 400.000 400.000 400.000 400.000 400.000 400.000.000 400.000.000 400.000.000 400.000.000 400.000.000.000 400.000.000 400.000.000 400.000.000 400.000.000.000 400.000.000 400.000.000 400.000.000 400.000.000 400.000.000 400.000.000 400.000.000.000 400.000.000 400.000.000.000 400.000.000.000.000 400.000.000.000.000.000.000.000 400.000.000.000.000.000.000.000.000.000	Parameter	Commercial		12/21/2012	10/18/2013	12/21/2012	10/18/2013
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1,1,2-incluroenthane 20 6 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7 <2.7	1,1,2,2-letrachloroethane	10	2	<3.4	<3.4	<3.4	<3.4
J. Dichloroethane 10000 5000 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <td>1,1,2-Trichloroethane</td> <td>20</td> <td>6</td> <td><2.7</td> <td><2.7</td> <td><2.7</td> <td><2.7</td>	1,1,2-Trichloroethane	20	6	<2.7	<2.7	<2.7	<2.7
JDichloroethene 6000 2000 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <td>1,1-Dichloroethane</td> <td>10000</td> <td>5000</td> <td><2.0</td> <td><2.0</td> <td><2.0</td> <td><2.0</td>	1,1-Dichloroethane	10000	5000	<2.0	<2.0	<2.0	<2.0
12,4-Trinchlyobenzene 100 40 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <3,7 <td>1,1-Dichloroethene</td> <td>6000</td> <td>2000</td> <td><2.0</td> <td><2.0</td> <td><2.0</td> <td><2.0</td>	1,1-Dichloroethene	6000	2000	<2.0	<2.0	<2.0	<2.0
1,2,4-Timethylbenzene 200 70 6.1 1.1 5.5 1.2 1,2-Ditkronochazene 6000 2000 <3.0	1,2,4-Trichlorobenzene	100	40	<3.7	<3.7	<3.7	<3.7
1.2-Distormore thane 1 0.2 <3.8	1,2,4-Trimethylbenzene	200	70	6.1	1.1	5.5	1.2
1,2-Dichlorocharzene 6000 200 <3.0	1,2-Dibromoethane	1	0.2	<3.8	<3.8	<3.8	<3.8
1,2-Dichloropropane 100 40 <2,0	1,2-Dichlorobenzene	6000	2000	<3.0	<3.0	<3.0	<3.0
12-Dichloropropane 100 40 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3	1,2-Dichloroethane	10	4	<2.0	<2.0	<2.0	<2.0
1.3.5-Trimethylbenzene 200 60 2.1 <1.0 2.1 <1.0 1.3-Butadinene 10 3 <1.1	1,2-Dichloropropane	100	40	<2.3	<2.3	<2.3	<2.3
1,3-Butkalene 10 3	1,3,5-Trimethylbenzene	200	60	2.1	<1.0	2.1	<1.0
1,3-Dichlorobenzene NA NA C3.0 C3.0 <thc3.0< th=""> C3.0 <thc3.0< th=""></thc3.0<></thc3.0<>	1,3-Butadiene	10	3	<1.1	<1.1	<1.1	<1.1
1.4-Dichlorobenzene 2000 600 <3.0	1,3-Dichlorobenzene	NA	NA	<3.0	<3.0	<3.0	<3.0
2-Butanone 100000 50000 5.4 cl.5 5.4 cl.5 4-Ethytoluene NA NA 31 cl.5 2.8 cl.5 Actone 870000 310000 55 7.8 49 13 Benzene 130 45 c0.64 2 <0.64	1,4-Dichlorobenzene	2000	600	<3.0	<3.0	<3.0	<3.0
4-Ethytkoluene NA NA 3.1 -2,5 2.8 -2,5 Acetone 870000 310000 55 7.8 49 13 Benzene 130 45 -0,64 2 -0,64 -0,64 -0,64 -0,64 -0,64 -0,64 -0,64 -0,64 -0,64 -0,64 -0,64 -0,64 -0,64 -0,64 -0,64 -0,64 -0,64 -0,64 -0,64 -0,64 -0,64 -0,64 -0,64 -0,64 -0,64 -0,64 -0,64 -0,64 -0,64 -0,64 -0,64 -0,64 -0,64 -0,64 -0,64 -0,64 -0,64 -0,64 -0,64 -0,64 -0,64 -0,64 -1,6 -1,6 -1,6 -1,6 -1,6 -1,6 -1,6 -1,6 -1,6 -1,6 -1,6 -1,6 -1,6 -1,6 -1,6 -1,6 -1,6 -1,6 -1,6 -1,6 -1,6 -1,6 -1,6 -1,6 -1,6 -1,6 -1,6 -1,6<	2-Butanone	100000	50000	5.4	<1.5	5.4	<1.5
Acetone 870000 310000 55 7.8 49 13 Benzene 130 45 <0.64	4-Ethyltoluene	NA	NA	3.1	<2.5	2.8	<2.5
Benzene 130 45 c0.64 2 c0.64 c0.64 Benzyl chloride 30 10 <2.6	Acetone	870000	310000	55	7.8	49	13
Benzy chloride 30 10 <2.6 <2.6 <2.6 <2.6 Bromodichloromethane NA NA <3.4	Benzene	130	45	<0.64	2	<0.64	<0.64
Bromodichloromethane NA <td>Benzyl chloride</td> <td>30</td> <td>10</td> <td><2.6</td> <td><2.6</td> <td><2.6</td> <td><2.6</td>	Benzyl chloride	30	10	<2.6	<2.6	<2.6	<2.6
Bromoform 300 90 <5.2 <5.2 <5.2 <5.2 Bromomethane 100 50 <1.9	Bromodichloromethane	NA	NA	<3.4	<3.4	<3.4	<3.4
Bromomethane 100 50 <1.9 <1.9 <1.9 <1.9 <1.9 Carbon tetrachloride 20000 7000 <1.6	Bromoform	300	90	<5.2	<5.2	<5.2	<5.2
Carbon disulfide 20000 7000 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <td>Bromomethane</td> <td>100</td> <td>50</td> <td><1.9</td> <td><1.9</td> <td><1.9</td> <td><1.9</td>	Bromomethane	100	50	<1.9	<1.9	<1.9	<1.9
Carbon tetrachloride 20 7 <3.1 <3.1 <3.1 <3.1 Chlorobenzene 1000 500 <2.3	Carbon disulfide	20000	7000	<1.6	<1.6	<1.6	<1.6
Chlorobenzene 1000 500 <2.3 <2.3 <2.3 <2.3 Chloroethane 300000 100000 <1.3	Carbon tetrachloride	20	7	<3.1	<3.1	<3.1	<3.1
Chloroethane 300000 100000 <1.3 <1.3 <1.3 <1.3 Chloroform 3000 1000 <2.4	Chlorobenzene	1000	500	<2.3	<2.3	<2.3	<2.3
Chloroform 3000 1000 <2.4 <2.4 <2.4 <2.4 Chloromethane 3000 900 <1.0	Chloroethane	300000	100000	<1.3	<1.3	<1.3	<1.3
Chloromethane 3000 900 <1.0 <1.0 <1.0 <1.0 <1.0 cis-1,2-Dichloroethene NA NA VA <2.0	Chloroform	3000	1000	<2.4	<2.4	<2.4	<2.4
cis-1,2-Dichloroethene NA NA <th< td=""><td>Chloromethane</td><td>3000</td><td>900</td><td><1.0</td><td><1.0</td><td><1.0</td><td><1.0</td></th<>	Chloromethane	3000	900	<1.0	<1.0	<1.0	<1.0
dis-1,3-Dichloropropene 600 200 <2.3 <2.3 <2.3 <2.3 <2.3 Cyclohexane 200000 60000 14 1.8 7.9 <1.7	cis-1,2-Dichloroethene	NA	NA	<2.0	<2.0	<2.0	<2.0
Cyclohexane 200000 60000 14 1.8 7.9 <1.7 Dibromochloromethane NA NA <4.3	cis-1,3-Dichloropropene	600	200	<2.3	<2.3	<2.3	<2.3
Dibromochloromethane NA NA <4.3 <4.3 <4.3 <4.3 <4.3 <4.3 <4.3 <4.3 <4.3 <4.3 <4.3 <4.3 <4.3 < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < < <	Cyclohexane	200000	60000	14	1.8	7.9	<1.7
Dichlorodifluoromethane 6000 2000 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2.5 <2	Dibromochloromethane	NA	NA	<4.3	<4.3	<4.3	<4.3
Dichlorotetrafluoroethane NA NA <3.5 <3.5 <3.5 <3.5 <3.5 Ethanol 420000 150000 490 24 470 36 Ethyl acetate 80000 30000 <1.8	Dichlorodifluoromethane	6000	2000	<2.5	<2.5	<2.5	<2.5
Ethanol 42000 150000 490 24 470 36 Ethyl acetate 80000 30000 <1.8	Dichlorotetrafluoroethane	NA	NA	<3.5	<3.5	<3.5	<3.5
Ethyl acetate 80000 30000 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	Ethanol	420000	150000	490	24	470	36
Ethylbenzene 30000 10000 4.5 <0.87 4 <0.87 Hexachlorobutadiene 10 5 <5.3	Ethyl acetate	80000	30000	<1.8	<1.8	<1.8	<1.8
Hexachlorobutadiene105<5.3<5.3<5.3<5.3Isopropyl alcohol2000007000013211829m,p-Xylene300010003.622<1.7	Ethylbenzene	30000	10000	4.5	< 0.87	4	<0.87
Isopropyl alcohol 200000 70000 13 21 18 29 m,p-Xylene 3000 1000 3.6 2 2 <1.7	Hexachlorobutadiene	10	5	<5.3	<5.3	<5.3	<5.3
m.p.Xylene 3000 1000 3.6 2 2 <1.7 Methyl butyl ketone NA NA NA 2.1 <2.0	Isopropyl alcohol	200000	70000	13	21	18	29
Methyl butyl ketone NA NA 2.1 <2.0 <2.0 <2.0 Methyl isobutyl ketone 80000 30000 <2.0	m.p-Xvlene	3000	1000	3.6	2	2	<1.7
Methyl isobutyl ketone 80000 30000 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <	Methyl butyl ketone	NA	NA	2.1	<2.0	<2.0	<2.0
Methyl tert-butyl ether 80000 30000 <1.8 <1.8 <1.8 <1.8 Methyl tert-butyl ether 600 200 4 3.3 <1.7	Methyl isobutyl ketone	80000	30000	<2.0	<2.0	<2.0	<2.0
Methylene chloride 600 200 4 3.3 <1.7 6.3 Naphthalene 300 90 <2.6	Methyl tert-butyl ether	80000	30000	<1.8	<1.8	<1.8	<1.8
Naphthalene 300 90 <2.6 <2.6 <2.6 <2.6 <2.6 <2.6 <2.6 <2.6 <2.6 <2.6 <2.6 <2.6 <2.6 <2.6 <2.6 <2.6 <2.6 <2.6 <2.6 <2.6 <2.6 <2.6 <2.6 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	Methylene chloride	600	200	4	3.3	<1.7	6.3
n-Heptane NA NA NA <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0	Naphthalene	300	90	<2.6	<2.6	<2.6	<2.6
n-Hexane 60000 20000 38 4.2 8.3 2.2 o-Xylene 3000 1000 1.8 <0.87	n-Heptane	NA	NA	<2.0	<2.0	<2.0	<2.0
o-Xylene 3000 1000 1.8 <0.87 <0.87 Propylene 80000 30000 <0.86	n-Hexane	60000	20000	38	4.2	83	2.2
Propylene 80000 30000 <0.86 <0.86 <0.86 <0.86 Styrene 30000 10000 14 <2.1	o-Xvlene	3000	1000	1.8	<0.87	<0.87	<0.87
Styrene 30000 10000 14 <2.1 23 <2.1 Tetrachloroethene 600 200 26 18 20 17 Tetrachloroethene 600 200 26 18 20 17 Tetrachloroethene 100000 50000 3900 94 970 49 trans-1,2-Dichloroethene 2000 600 <2.0	Propylene	80000	30000	<0.86	<0.85	<0.87	<0.86
Tetrachloroethene 600 200 26 18 20 17 Tetrachloroethene 600 200 26 18 20 17 Tetrachloroethene 100000 50000 3900 94 970 49 Toluene 100000 50000 3900 94 970 49 trans-1,2-Dichloroethene 2000 600 <2.0	Styrene	30000	10000	14	<2 1	23	<2.1
Tetrahydrofuran NA NA Sa Sa <thsa< th=""> Sa Sa</thsa<>	Tetrachloroethene	600	200	26	18	20	17
Techanyolotian IVA IVA 5.8 5.4 3.5 4.4 Toluene 100000 50000 3900 94 970 49 trans-1,2-Dichloroethene 2000 600 <2.0	Tetrabudrofuran		200	20	10	20	1/
Inductive Inductive Store	Toluene	100000	50000	2000	3.4	070	4.4
uars-1,2-bitmore there 2000 600 <2.0 <2.0 <2.0 <2.0 <5.5 trans-1,3-Dichloropropene 600 200 <2.3	trans_1 2-Dichloroothong	2000	600		34	970	49
Datase procession Dot 200 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3 <2.3	trans 1.2 Dichleronronon	2000	200		<2.0	<2.0	0.5
Trichloroeutene 50 30 <2.7 27 <2.7 7 Trichlorofluoromethane 20000 7000 <2.8	Trichloroothono	000	200	<2.3	<2.3	<2.3	<2.3
Trichlorotifluoroethane 2000 7000 <2.8 <2.8 <2.8 <2.8 Trichlorotrifluoroethane 800000 300000 <3.8	Trichlorofluorg = ath == a	80	30	<2./	2/	<2.1	
Inclusion and operation 500000 300000 <3.8 <3.8 <3.8 <3.8 Vinyl acetate 6000 2000 <1.8	Trichlorotriflucroathane	20000	7000	<2.8	<2.8	<2.8	<2.8
vinyi acetate buuu 2000 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	Moul eastet-	800000	300000	<3.8	<3.8	<3.8	<3.8
	Vinyl acetate	6000	2000	<1.8	<1.8	<1.8	<1.8
vinyi cilionae 30 10 <1.3 <0.51 <1.3 <0.51	viliyi chloride	30	10	<1.3	<0.51	<1.3	<0.51

BOLD: exceeds laboratory method detection.

exceeds MPCA 10X Commercial/Industrial ISV.

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Table 2 Soil Vapor Sampling Results MN Bio Business Center Rochester, MN (ug/m³)

	hance	14004			i 	
		Desidential	LSG-9	LSG-9	LSG-10	LSG-10
D	Commercial	Residential	12/21/2012	10/18/2013	12/21/2012	10/18/2013
Parameter	10X ISV	10X ISV	,		==;==;==;==	10/ 10/ 2015
1,1,1-Trichloroethane	100000	50000	<2.7	<2.7	<2.7	<2.7
1,1,2,2-Tetrachloroethane	10	2	<3.4	<3.4	<3.4	<3.4
1,1,2-Trichloroethane	20	6	<2.7	<2.7	<2.7	<2.7
1,1-Dichloroethane	10000	5000	<2.0	<2.0	<2.0	<2.0
1,1-Dichloroethene	6000	2000	<2.0	<2.0	<2.0	<2.0
1,2,4-Trichlorobenzene	100	40	<3.7	<3.7	<3.7	<37
1,2,4-Trimethylbenzene	200	70	15	<10	3.4	<1.0
1.2-Dibromoethane	1	0.2	-3.8	~2.0	-2 Q	<2.0
1.2-Dichlorobenzene	6000	2000	<3.0	12.0	< 3.8	<3.8
1.2-Dichloroothana	10	2000	<3.0	<3.0	<3.0	<3.0
1,2-Dichloroethane	10	4	<2.0	<2.0	<2.0	<2.0
1,2-Dichloropropane	100	40	<2.3	<2.3	<2.3	<2.3
1,3,5-Trimethylbenzene	200	60	<0.98	<1.0	1.4	<1.0
1,3-Butadiene	10	3	<1.1	<1.1	<1.1	<1.1
1,3-Dichlorobenzene	NA	NA	<3.0	<3.0	<3.0	<3.0
1,4-Dichlorobenzene	2000	600	<3.0	<3.0	<3.0	<3.0
2-Butanone	100000	50000	6.1	1.7	11	3.2
4-Ethyltoluene	NA	NA	<2.5	<2.5	<2.5	<2.5
Acetone	870000	310000	35	8.6	390	32
Benzene	130	45	<0.64	<0.64	0.72	-0 EA
Benzyl chloride	30	10	<2.6		12.6	10.04
Bromodichloromethane	00	NA	-2.0	12.0	<2.0	<2.0
Bromoform	200		<3.4	<3.4	<3.4	<3.4
Bromonorthone		90	<5.2	<5.2	<5.2	<5.2
Bromometriane	100	50	<1.9	<1.9	<1.9	<1.9
Carbon disulfide	20000	7000	<1.6	<1.6	<1.6	<1.6
Carbon tetrachloride	20	7	<3.1	<3.1	<3.1	<3.1
Chlorobenzene	1000	500	<2.3	<2.3	<2.3	<2.3
Chloroethane	300000	100000	<1.3	<1.3	<1.3	<1.3
Chloroform	3000	1000	<2.4	<2.4	<2.4	<2,4
Chloromethane	3000	900	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	NA	NA	<2.0	<2.0	<2.0	<2.0
cis-1,3-Dichloropropene	600	200	<2.3	<2.3	<2.3	<23
Cvclohexane	200000	60000	11	<17	47	11
Dibromochloromethane	NA	NA	< <u></u>	<1.7	-12	-4.2
Dichlorodifluoromethane	6000	2000	 	<7.5		<u></u>
Dichlorotetrafluoroethana	NA	2000				<2.5
Ethanol	420000	450000	<3.3	<3.5	<3.5	<3.5
Ethyl agetete	420000	150000	240	35	1700	85
Cativita de la la catalación de la catal	80000	30000	<1.8	<1.8	<1.8	<1.8
Euryibenzene	30000	10000	0.96	<0.87	3.2	<0.87
Hexachlorobutadiene	10	5	<5.3	<5.3	<5.3	<5.3
Isopropyl alcohol	200000	70000	20	40	26	80
m,p-Xylene		1000	<1.7	<1.7	3.2	<1.7
Methyl butyl ketone	NA	NA	<2.0	<2.0	2.3	<2.0
Methyl isobutyl ketone	80000	30000	<2.0	<2.0	2.6	<2.0
Methyl tert-butyl ether	80000	30000	<1.8	<1.8	<1.8	<1.8
Methylene chloride	600	200	2.6	<1.7	2.1	<1.7
Naphthalene	300	90	<2.6	<2.6	<2.6	<2.6
n-Heptane	NA	NA	<2.0	<2.0	<2.0	<2.0
n-Hexane	60000	20000	4.6	<1.8	22.0	37
o-Xvlene	3000	1000	<0.97	40.97	1.0	
Pronvlene	80000	20000	10.87	10.07	1.0	<0.87
Styropo	20000	10000	<0.86	<0.86	<0.86	<0.86
	30000	10000	<2.1		6.8	<2.1
Tetrachioroethene	600	200	150	31	36	21
Tetrahydrofuran	NA	NA	6.9	6.1	3.7	6.9
Toluene	100000	50000	21	1.7	3900	110
trans-1,2-Dichloroethene	2000	600	<2.0	<2.0	<2.0	<2.0
trans-1,3-Dichloropropene	600	200	<2.3	<2.3	<2.3	<2.3
Trichloroethene	80	30	<2.7	<1.1	<2.7	<1 1
Trichlorofluoromethane	20000	7000	<2.8	<2.8	<2.8	<28
Trichlorotrifluoroethane	800000	300000	1300	-2,0 -22.0	60	~2.0
Vinvl acetate	00000	2000	~10	-1.0		<u>\3,8</u>
Vinyl chloride	30	10	×1.0	<1.8	<1'S	<1.8
this choice		10	<u> <1'2</u>	<0.51	<1.3	<0.51

BOLD: exceeds laboratory met

exceeds MPCA

F:\PROJECTS\Crc-City of Rochester\Vapor Intrusion\20131211 Soil Vapor Sampling Report\ Compiled Soil Vapor Data Table

Table 2 Soil Vapor Sampling Results MN Bio Business Center Rochester, MN (ug/m³)

(ug/m /							
	MPCA	MPCA	SP-1	SP-1	SP-2	SP-2	
	Commercial	Residential	12/21/2012	10/18/2013	12/21/2012	10/18/2013	
Parameter	10X ISV	10X ISV		10/10/2010		10/10/2013	
1,1,1-Trichloroethane	100000	50000	<2.7	<2.7	<2.7	<2.7	
1,1,2,2-Tetrachloroethane	10	2	<3.4	<3.4	<3.4	<3.4	
1,1,2-Trichloroethane	20	6	<2.7	<2.7	<2.7	<2.7	
1,1-Dichloroethane	10000	5000	<2.0	<2.0	<2.0	<2.0	
1,1-Dichloroethene	6000	2000	<2.0	<2.0	<2.0	<2.0	
1,2,4-Trichlorobenzene	100	40	<3.7	<3.7	<3.7	<3.7	
1,2,4-Trimethylbenzene	200	70	<0.98	<1.0	<0.98	<1.0	
1,2-Dibromoethane	1	0.2	<3.8	<3.8	<3.8	<3.8	
1.2-Dichlorobenzene	6000	2000	<3.0	<3.0	<3.0	<3.0	
1.2-Dichloroethane	10	4	<2.0	<2.0	<2.0	<2.0	
1.2-Dichloropropane	100	40	<2.3	<2.3	<23	<2.3	
1 3 5-Trimethylbenzene	200	60	<0.98	<1.0	<0.98	<1.0	
1 3-Butadiene	10	3	<0.50	<1.0	<1.1	<1.0	
1.2-Dichlorohonzona	NA	NIA NIA	<1.1	<2.0	<2.0	<2.0	
1,3-Dichlorobenzene	NA		<3.0	<3.0	<3.0	<3.0	
2 Putanana	2000	50000	<3.0	<3.0	<3.0	<3.0	
2-Butanone	100000	50000	<1.5	<1.5	3.1	2.3	
Acatona	NA	NA	<2.5	<2.5	<2.5	<2.5	
Acetone	870000	310000	5.3	23	4.7	35	
Benzene	130	45	<0.64	<0.64	0.73	<0.64	
Benzyl chloride	30	10	<2.6	<2.6	<2.6	<2.6	
Bromodichloromethane	NA	NA	<3.4	<3.4	<3.4	<3.4	
Bromoform	300	90	<5.2	<5.2	<5.2	<5,2	
Bromomethane	100	50	<1.9	<1.9	<1.9	<1.9	
Carbon disulfide	20000	7000	<1.6	<1.6	<1.6	<1.6	
Carbon tetrachloride	20	7	<3.1	<3.1	<3.1	<3.1	
Chlorobenzene	1000	500	<2.3	<2.3	<2.3	<2.3	
Chloroethane	300000	100000	<1.3	<1.3	<1.3	<1.3	
Chloroform	3000	1000	<2.4	<2.4	<2.4	<2.4	
Chloromethane	3000	900	<1.0	<1.0	<1.0	<1.0	
cis-1,2-Dichloroethene	NA	NA	<2.0	<2.0	<2.0	<2.0	
cis-1,3-Dichloropropene	600	200	<2.3	<2.3	<2.3	<2.3	
Cyclohexane	200000	60000	<1.7	<1.7	<1.7	<1.7	
Dibromochloromethane	NA	NA	<4.3	<4.3	<4.3	<4.3	
Dichlorodifluoromethane	6000	2000	<2.5	<2.5	<2.5	<2.5	
Dichlorotetrafluoroethane	NA	NA	<3.5	<3.5	<3.5	<3.5	
Ethanol	420000	150000	7.9	230	12	130	
Ethyl acetate	80000	30000	<1.8	<1.8	<1.8	<1.8	
Ethylbenzene	30000	10000	<0.87	<0.87	<0.87	<0.87	
Hexachlorobutadiene	10	5	<5.3	<5.3	<5.3	<5.3	
Isopropyl alcohol	200000	70000	3.8	240	4.8	170	
m.p-Xylene	3000	1000	<1.7	<1.7	<1.7	<1.7	
Methyl butyl ketone	NA	NA	<2.0	<2.0	<2.0	<2.0	
Methyl isobutyl ketone	80000	30000	<2.0	<2.0	<2.0	<2.0	
Methyl tert-butyl ether	80000	30000	<1.8	<1.8	<1.8	<1.8	
Methylene chloride	6000	200	26	26	22	21	
Naphthalene	300	an	<2.5	22.0	27.5	<2.1 <2.6	
n-Hentane		NA NA	22.0	22.0	22.0	<2.0	
n-Hexane	00003	20000	~1.0	~2.0	30	~2.0	
o-Yulene	3000	1000	50.02	<1.8 20.97	2.8	<u>5.1%</u>	
Propulana	0000	1000	<u>\$0.87</u>	50.87	<u><0.87</u>	<0.8/	
Sturopo	20000	10000	<u.86< td=""><td><0.86</td><td><u.86< td=""><td><0.86</td></u.86<></td></u.86<>	<0.86	<u.86< td=""><td><0.86</td></u.86<>	<0.86	
Styrene Tatasakian atl	30000	10000	<2.1	<2.1	<2.1	<2,1	
letrachloroethene	600	200	47	9	39	10000	
Tetrahydrofuran	NA	NA	<1.5	3.9	2.1	<1.5	
Toluene	100000 .	50000	<0.75	1.8	1.2	1.2	
trans-1,2-Dichloroethene	2000	600	<2.0	<2.0	<2.0	<2.0	
trans-1,3-Dichloropropene	600	200	<2.3	<2.3	<2.3	<2.3	
Trichloroethene	80	30	<2.7	<1.1	<2.7	3.3	
Trichlorofluoromethane	20000	7000	<2.8	<2.8	<2.8	<2.8	
Trichlorotrifluoroethane	800000	300000	75	<3.8	6	900	
Vinyl acetate	6000	2000	<1.8	<1.8	<1.8	<1.8	
Vinyl chloride	30	10	<1.3	<0.51	<1.3	<0.51	
Lugardi	Notor			1			

BOLD: exceeds laboratory metl

exceeds MPCA