



Marathon Pipe Line LLC

539 South Main Street
Findlay, OH 45840
Telephone 419/422-2581
FAX 419/425-3917

Location: Edwardsville Response
Edwardsville, IL

Sampling Date(s): March 11, 2022 to March 24, 2022

Final Issue Date: August 3, 2022

From: Marathon Pipe Line LLC- E&S Department

Re: Worksite and Community Air Monitoring

Executive Summary

At the direction of the Unified Command, an air monitoring plan was approved and implemented during the Edwardsville Response from 03/11/22 until 03/24/22. Real-time monitoring and analytical air samples were collected in multiple locations around the immediate work site as well as various locations around the community.

Work site samples were obtained near the leak site/repair activities in Division 1 and boom locations in Divisions 2, 3 and 4 (see satellite photograph below). Additionally, community zones were monitored between the release site/impacted soil sites and populated areas in the prevailing direction of winds during the response. A combination of real-time monitoring, Organic Vapor Monitor (OVM) and evacuated canisters sampling with laboratory analysis were used for sample collection.

At both work site and community locations real-time monitoring was conducted for Benzene, Volatile Organic Compounds (VOC), combustible gas (reported as percent Lower Explosive Limit), Carbon Monoxide, Hydrogen Sulfide (H₂S) and Oxygen. OVM sampling represents Time-Weighted Average (TWA) concentrations of for benzene, ethyl benzene, hexane, toluene, xylene, and total VOCs reported as Total Hydrocarbons as n-hexane. Evacuated canister sampling represents TWA concentrations for 64 volatile and semi-volatile compounds (VOCs) and Tentatively Identified Compounds (TICs).

The following report summarizes the gathered data. Refer to Appendices for detail results. The report will reflect monitoring results by monitor capabilities (direct read and analytical), both worksite and community air samples are included.

The data collected per the air monitoring plan at the worksite and in the community indicated VOC and H₂S readings were either below detection limits and/or below established air monitoring plan limits. Benzene readings were either below detection limits and/or below established air monitoring plan limits except for a small section of the worksite at Division 1, Benzene levels reached an actionable limit and corrective action were implemented to protect the workers.



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Worksite:

- a. A Benzene regulated area was established on 03/15/22 and removed on 03/22/22. The area required respiratory protection due to concentrations above the action level of 0.5 ppm as indicated by the direct read instruments. The restricted area was in Division I near the release, also known as the wetland site.
- b. All other work-site monitoring results in Div. 1, Div. 2, Div. 3 and Div. 4 were below actionable levels, meaning additional preventative respiratory Personal Protective Equipment (PPE) was not required.
- c. The Benzene regulated area in Division 1 did not extend into or impact the community.

Community:

- a. Community monitoring was conducted from 03/11/22 to 03/24/22. Atmospheric air monitoring did not indicate any actionable levels above EPA recommended reportable levels for any chemical sampled per the air monitoring plan.
- b. The gross impacted soil, from the wetland area, was removed on 03/22/22. No actionable readings occurred in the community from 03/22/22 through 03/24/22. Therefore, air monitoring of the surrounding community was discontinued on 03/24/22 per the Transition Plan and approval of the EPA.

Effective implementation of the Unified Command Air Monitoring Plan resulted in protecting the community and worksite workers. Analysis of laboratory and real-time results were within the acceptable levels recommended and did not have any reportable concentrations above EPA's reportable quantities or recommended reportable levels.



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Work Site Air Sample Information

Work site air monitoring was conducted near the release site, at repair activities in Division 1, boom locations (Divisions 1,2, 3 & 4) and Wood River Station (Proper) using real-time monitoring and analytical sampling. Real-time monitoring was conducted for VOC, H2S, and combustible gas (reported as percent Lower Explosive Limit) utilizing BZ1s, and for Benzene utilizing UltraRAE 3000's.

The Benzene restricted area was barricaded and workers who entered the restricted area wore air purifying respirators with organic vapor cartridges to protect themselves from the hazards of Benzene. Personal sample TWA results for Benzene of employees working in Div. I at the dig site ranged from <0.056 ppm to 0.30 ppm. This is below the OSHA Permissible Exposure Limit (PEL) of 1 ppm for Benzene.

Table 1 shows the GPS coordinates for monitoring locations.

Table 1: Work Site Atmospheric Monitoring Location GPS Coordinates

Location	Latitude	Longitude	Description
A	38.81986N,	90.00923W	Republic Landfill Boom Site (Division II)
B	██████████,	██████████	Dig Site – North of Excavation (Division I)
D	██████████,	██████████	Dig Site on IL-143 Bridge (Division I)
E	38.80495N	90.07682W	Oldenburg Road Boom Site (Division III)
F	38.80489N,	90.03858W	Wanda Road Boom Site (Division II)
G			Lewis and Clark Boulevard Boom Site (Division IV)
	38.80536N,	90.10079W	
J	██████████	██████████	Wood River Station – SW Corner of Old Tank Dike

Tables 3-16 in Appendix A detail the results of real-time monitoring of VOC, H2S, and combustible gas (reported as percent Lower Explosive Limit) utilizing BZ1s, and Benzene utilizing UltraRAE 3000's of the Work Site Locations.



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Community Site Air Sample Information

Eight community analytical monitoring points were established in collaboration with the EPA to obtain air sample concentrations, bordering Division 1 between the release site and populated community areas. Real-time monitoring results were obtained using UltraRAE 3000's and Radius BZ1's. OVM badges were located next to the BZ1 monitors to further validate the chemical air concentrations.

GPS coordinates for monitoring points are in Table 2 below.

Table 2: Community Site Atmospheric Monitoring Location GPS Coordinates

Location	Latitude	Longitude	Notes
C	[REDACTED]	[REDACTED]	Boarding Residential
H	38.85096N	90.08657W	Wood River Proper
I	[REDACTED]	[REDACTED]	Boarding Residential
Incident Command	Roxana Park Command Center on Gazebo	Background	Commercial
Drda Lane	[REDACTED]	[REDACTED]	Residential
Phillipena Avenue/Henry Street	[REDACTED]	[REDACTED]	Residential
Wagon Wheel Road	[REDACTED]	[REDACTED]	Residential
Winston Brown Recreation Park	38.81875N	89.97508 W	Near Park and Campground

Tables 17-26 in Appendix B detail the results of real-time monitoring of VOC, H2S, and combustible gas (reported as percent Lower Explosive Limit) utilizing BZ1s, and Benzene utilizing UltraRAE 3000's of the Community Locations.



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Organic Vapor Monitoring (OVM) Badges:

In conjunction with the Worksite and Community direct read (Real Time) monitoring Assay Technology 566 OVM Badges were placed at various locations to measure the TWA air concentration for contaminants detectable by the NIOSH 1500/1501 method. OVM sampling represents TWA air concentrations for benzene, ethyl benzene, hexane, toluene, xylene, and total VOCs reported as Total Hydrocarbons as n-hexane. The OVM badges were primarily placed with the Radius BZ1s in Divisions 1-4. Additional OVM badges were placed on employees working in Divisions 1-4.

Tables 27-40 in Appendix C Data Tables for Atmospheric Monitoring Results with Organic Vapor Monitor Analysis.

Evacuated Canister Sampling

In addition, evacuated canisters were placed at these locations:

- Old Alton Edwardsville Road Boom Site - Division 1 – (Location C)
- The Wood River Station – NE Corner of Old Tank Dike (Location H)
- The Dig Site – North of Excavation (Location I)
- Drdra Lane
- Phillipena Avenue/Henry Street
- Incident Command at the Roxana Park Gazebo.

Evacuated canisters were placed at these select locations to measure the TWA concentration for contaminants detectable by the EPA TO15+TICs method. Evacuated sampling represents TWA concentrations for 64 volatile and semi-volatile compounds (VOCs) and TICs.

Tentatively identified compounds means compounds detected in a sample using gas chromatography mass spectrometry or gas chromatography mass spectrometry that are not among the target analytes for the residual solvents analysis and common VOCs.

Concentrations of 1,2,4-Trimethylbenzene, 1,2-Dichloropropane, 1,3,5-Trimethylbenzene, 2,2,4-Trimethylpentane, Methyl Ethyl Ketone (2-Butanone), 4-ethyltoluene, Acetone, Benzene, Carbon Disulfide, Chloroethane, Chloromethane, Cyclohexane, Ethyl Acetate, Ethyl Benzene, Heptane, Hexane, P+M-Xylene, Methylene Chloride, O-Xylene and Toluene were detected on one or more of the air samples collected. Where applicable, each of the detected contaminants was less than the respective EPA Dose Response Value and/or the ACGIH TLV 8- Hour except for Benzene. Benzene was detected above EPA Dose Response Value on two of the samples collected at Dig Site I which was located in the Benzene Regulated area. All other analytes were less than the respective laboratory analytical detection limits.

Tables 41-42 in Appendix D detailed the results for VOCs and TICs.

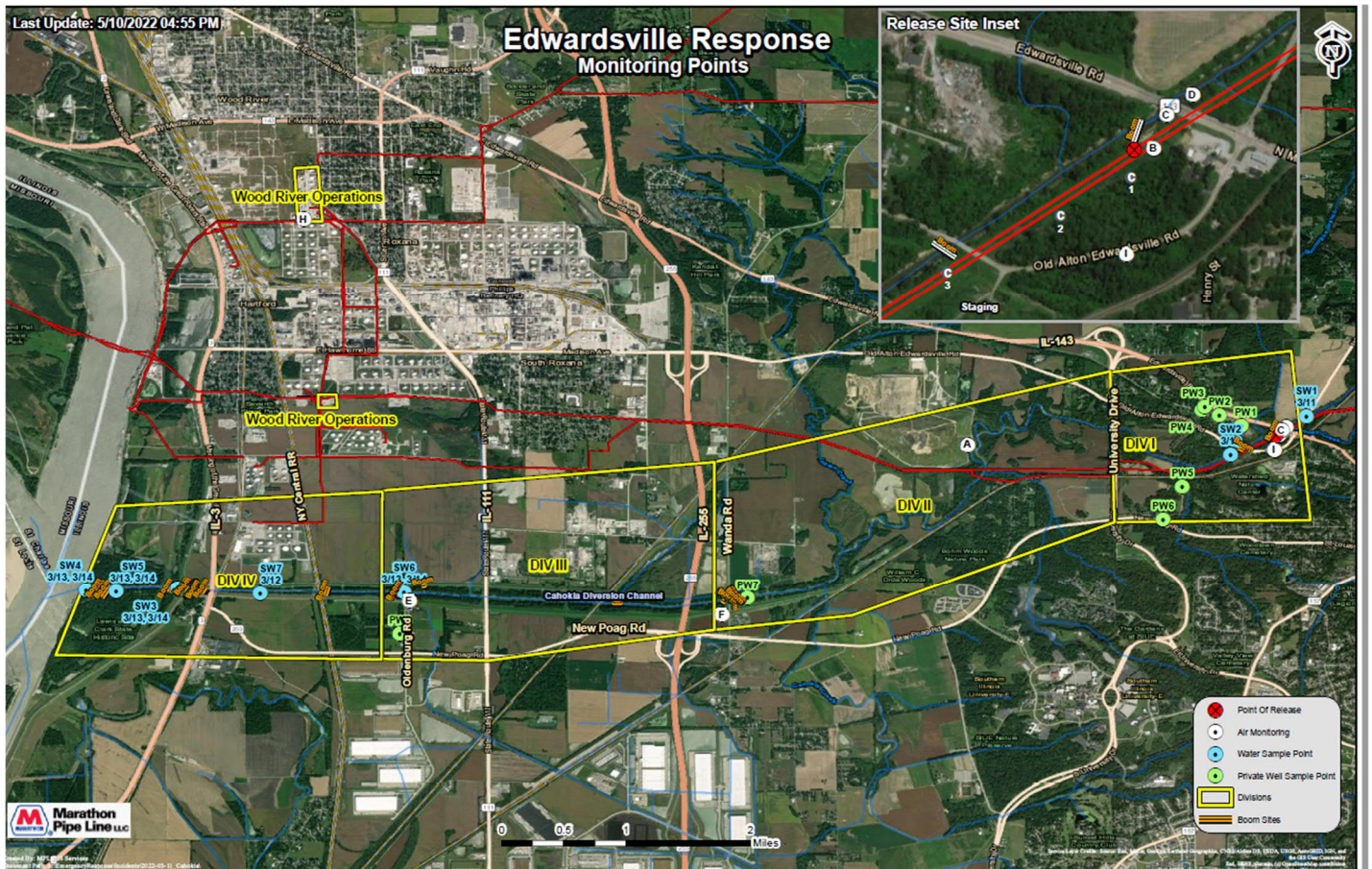


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Additional Air Monitoring Information

In this satellite photograph, a depiction of the work site Divisions and Community monitoring points are highlighted. The photograph also details the initial locations of fixed Radius BZ1s placed in the respective divisions.





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Conclusions

The atmospheric data at the release site, repair activities in Division 1 and boom locations in DIV I, II, III and IV indicated detectable levels for VOC and H₂S. However, the levels were below the action levels for required respiratory protection except for the Benzene Restricted area at DIV 1 worksite. The restricted area was temporarily established in Division I during the response phase of the release to protect the health and safety of the workers. The Benzene regulated area in Division I did not extend into or impact the community.

The monitoring results indicated that all Community Zones were within acceptable levels as listed in section 5.0 REAL-TIME MONITORING of the Site Safety and Air Monitoring Work Plan. Additionally, air concentrations were maintained below concentration that would initiate the EPA's recommendation of immediate protective measures to limit exposure (e.g., shelter in place, evacuation).



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**Appendix A – Data Tables for Direct Reading Atmospheric
Monitoring of the Work Site Locations.**



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**Table 3: Summary of Atmospheric Monitoring with Radius BZ1s - DIV I Site D - Dig Site on IL-143 Bridge
 (Monitoring conducted March 11 through March 24, 2022)**

Location	Instrument	Start Date and Time	Stop Date and Time	Peak (VOC ppm)	TWA (VOC ppm)	PEAK (LEL %)	TWA (LEL %)	Peak (H2S ppm)	TWA (H2S ppm)
D	19103TA-002	03.11.22 10:53	03.12.22 07:26	4.60	0.07	0	0	0	0
D*	19103PP-001	03.12.22 12:35	03.12.22 20:19	N/A	N/A	N/A	N/A	N/A	N/A
D	19103TA-002	03.12.22 20:20	03.13.22 10:00	6.40	0.47	0	0	0	0
D	19103PP-001	03.13.22 9:52	03.13.22 20:33	1.50	0.04	0	0	0	0
D	19103TA-002	03.13.22 20:32	03.14.22 9:53	3.10	0.98	0	0	0	0
D	19103PP-001	03.14.22 9:52	03.14.22 21:27	1.60	0.11	0	0	0	0
D	19103TA-002	03.14.22 21:28	03.15.22 12:39	3.00	0.12	0	0	0	0
D	19103PP-001	03.15.22 12:36	03.15.22 22:05	0.00	0.00	0	0	0	0
D	19103TA-002	03.15.22 22:02	03.16.22 10:48	12.9	0.10	0	0	0	0
D	19103PP-001	03.16.22 10:46	03.16.22 22:33	1.30	0.01	0	0	0	0
D	19103TA-002	03.16.22 22:31	03.17.22 12:04	1.60	0.05	0	0	0	0
D	19103PP-001	03.17.22 12:02	03.18.22 14:03	0.00	0.00	0	0	0	0
D	19103TA-002	03.18.22 13:31	03.19.22 11:34	0.00	0.00	0	0	0	0
D	19103TA-002	03.19.22 14:29	03.20.22 14:49	1.60	2.21	0	0	0	0
D	17121UB-005	03.20.22 14:59	03.21.22 13:45	0.00	0.00	0	0	0	0
D	19103TA-002	03.21.22 13:29	03.22.22 15:08	0.00	0.00	0	0	0	0
D	17121UB-005	03.22.22 15:17	03.23.22 17:45	0.00	0.00	0	0	0	0
D	19103TA-002	03.23.22 17:38	03.24.22 12:36	0.00	0.00	0	0	0	0

**Note: Results this session did not sync and therefore data could not be recovered. However, during this time, the team did not receive any atmospheric alarms or notifications from this monitor.*



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**Table 4: Summary of Atmospheric Monitoring with Radius BZ1s - DIV 1 Site B - Dig Site – South of Excavation near Old Alton Edwardsville Road
 (Monitoring conducted March 11 through March 19, 2022)**

Location	Instrument	Start Date and Time	Stop Date and Time	Peak (VOC ppm)	TWA (VOC ppm)	PEAK (LEL %)	TWA (LEL %)	Peak (H2S ppm)	TWA (H2S ppm)
B	17121UB-005	03.11.22 10:59	03.12.22 7:16	4.40	0.27	0	0	0	0
B	170611A-020	03.12.22 4:20	03.13.22 10:13	30.70	15.09	0	0	0.90	0.01
B	170611A-020	03.13.22 12:14	03.13.22 19:37	9.50	1.03	0	0	0	0
B	17121UB-005	03.13.22 19:30	03.14.22 10:07	39.60	12.9	0	0	0	0
B	170611A-020	03.14.22 10:02	03.14.22 21:47	120	3.64	7.00	0	0	0
B	17121UB-005	03.14.22 21:47	03.15.22 12:49	205.70	9.26	0	0	0	0
B	170611A-020	03.15.22 12:44	03.15.22 22:21	6.10	0.60	0	0	0	0
B	17121UB-005	03.15.22 22:18	03.16.22 11:02	32.80	1.49	0	0	0	0
B	170611A-020	03.16.22 10:54	03.16.22 22:54	59.40	4.99	0	0	0	0
B	17121UB-005	03.16.22 20:53	03.17.22 12:15	44.20	7.86	0	0	0	0
B	170611A-020	03.17.22 12:10	03.18.22 13:48	3.10	0.70	0	0	0	0
B	17121UB-005	03.18.22 13:30	03.19.22 11:34	0.00	0.00	0	0	0	0

**Table 5: Summary of Atmospheric Monitoring with Radius BZ1s - DIV II Site A - Republic Landfill Boom Site
 (Monitoring conducted March 11 through March 15, 2022)**

Location	Instrument	Start Date and Time	Stop Date and Time	Peak (VOC ppm)	TWA (VOC ppm)	PEAK (LEL %)	TWA (LEL %)	Peak (H2S ppm)	TWA (H2S ppm)
A	17030JT-003	03.11.22 17:23	03.13.22 00:20	0.00	0.00	0	0	0.3	0.48
A	17053GJ-017	03.13.22 00:14	03.13.22 14:54	0.20	0.00	0	0	0	0
A	17030JT-003	03.13.22 14:47	03.13.22 23:41	0.00	0.00	0	0	0	0
A	17053GJ-017	03.13.22 23:35	03.14.22 13:52	0.00	0.00	0	0	0	0
A	17030JT-003	03.14.22 13:47	03.14.22 23:33	0.00	0.00	0	0	0	0
A	17053GJ-017	03.14.22 23:16	03.15.22 11:53	0.60	0.00	0	0	0	0



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**Table 6: Summary of Atmospheric Monitoring Results with Radius BZ1s - DIV II Site F - Wanda Road Boom Site
 (Monitoring conducted March 11 through March 19, 2022)**

Location	Instrument	Start Date and Time	Stop Date and Time	Peak (VOC ppm)	TWA (VOC ppm)	PEAK (LEL %)	TWA (LEL %)	Peak (H2S ppm)	TWA (H2S ppm)
F	190444C-006	03.11.22 18:37	03.12.22 04:57	0.00	0.00	0	0	0	0
F*	19103NT-004	03.12.22 04:56	03.12.22 22:46	N/A	N/A	N/A	N/A	N/A	N/A
F*	190444C-006	03.12.22 22:46	03.13.22 14:22	N/A	N/A	N/A	N/A	N/A	N/A
F*	19103NT-004	03.13.22 14:22	03.13.22 21:30	N/A	N/A	N/A	N/A	N/A	N/A
F	190444C-006	03.13.22 21:32	03.14.22 13:15	0.00	0.00	0	0	0	0
F	17052NF-020	03.14.22 13:13	03.14.22 22:54	0.00	0.00	0	0	0	0
F	190444C-006	03.14.22 22:53	03.15.22 11:36	0.00	0.00	0	0	0	0
F	17052NF-020	03.15.22 11:35	03.15.22 23:10	0.00	0.00	0	0	0	0
F	190444C-006	03.15.22 23:06	03.16.22 9:43	0.00	0.00	0	0	0	0
F	17052NF-020	03.16.22 09:40	03.17.22 00:58	0.00	0.00	0	0	0	0
F	190444C-006	03.17.22 00:54	03.17.22 14:08	0.00	0.00	0	0	0	0
F	17052NF-020	03.17.22 14:04	03.17.22 20:55	0.00	0.00	0	0	0	0
F	21034EX-002	03.17.22 20:53	03.18.22 14:21	0.00	0.00	0	0	0	0
F	190444C-006	03.18.22 14:17	03.19.22 11:03	0.00	0.00	0	0	0	0

**Note: Results for these sessions did not sync and therefore data could not be recovered. However, during this time, the team did not receive any atmospheric alarms or notifications from this monitor.*



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Table 7: Summary of Atmospheric Monitoring Results with Radius BZ1s - DIV III Site E - Oldenburg Road Boom Site (Monitoring conducted March 11 through March 19, 2022)

Location	Instrument	Start Date and Time	Stop Date and Time	Peak (VOC ppm)	TWA (VOC ppm)	PEAK (LEL %)	TWA (LEL %)	Peak (H2S ppm)	TWA (H2S ppm)
E	19103TA-004	03.11.22 17:12	03.12.22 13:30	1.50	0.06	0	0	1.00	1.81
E	19052PK-002	03.12.22 13:22	03.13.22 01:09	4.60	0.02	0	0	0	0
E	19103TA-004	03.13.22 01:04	03.13.22 13:34	0.00	0.00	0	0	0	0
E	19052PK-002	03.13.22 13:25	03.13.22 21:48	0.00	0.00	0	0	0	0
E	19103TA-004	03.13.22 21:47	03.14.22 12:51	0.00	0.00	0	0	0.30	0.12
E	19052PK-002	03.14.22 12:46	03.15.22 00:09	0.00	0.00	0	0	0	0
E	19103TA-004	03.15.22 00:09	03.15.22 11:21	0.00	0.00	0	0	0.20	0.03
E	19052PK-002	03.15.22 11:14	03.15.22 23:30	0.00	0.00	0	0	0	0
E	19103TA-004	03.15.22 23:25	03.16.22 10:03	0.00	0.00	0	0	0	0
E	19052PK-002	03.16.22 10:01	03.17.22 01:18	0.09	0.08	0	0	0	0
E	19103TA-004	03.17.22 01:13	03.17.22 13:46	0.00	0.00	0	0	0	0
E	19052PK-002	03.17.22 13:40	03.18.22 14:53	0.08	0.29	0	0	0	0
E	19103TA-004	03.18.22 13:51	03.19.22 11:18	0.00	0.00	0	0	0.30	0.15

Table 8: Summary Atmospheric Monitoring Results with Radius BZ1s - DIV IV Site G- Lewis and Clark Boulevard Boom Site (Monitoring conducted March 11 through March 16, 2022)

Location	Instrument	Start Date and Time	Stop Date and Time	Peak (VOC ppm)	TWA (VOC ppm)	PEAK (LEL %)	TWA (LEL %)	Peak (H2S ppm)	TWA (H2S ppm)
G	21034EX-002	03.11.22 19:39	03.12.22 12:30	0.00	0.00	0	0	0	0
G*	19103NT-001	03.12.22 12:28	03.13.22 01:40	N/A	N/A	N/A	N/A	N/A	N/A
G	21034EX-002	03.13.22 01:38	03.13.22 13:58	0.00	0.00	0	0	0	0
G	19103NT-001	03.13.22 13:55	03.13.22 22:35	0.00	0.00	0	0	0	0
G	21034EX-002	03.13.22 22:35	03.14.22 12:28	0.00	0.00	0	0	0	0
G	19103NT-001	03.14.22 12:24	03.15.22 00:22	0.00	0.00	0	0	0	0
G	21034EX-002	03.15.22 00:20	03.15.22 10:58	0.00	0.00	0	0	0	0
G	19103NT-001	03.15.22 10:54	03.15.22 23:52	0.00	0.00	0	0	0	0
G	21034EX-002	03.15.22 23:48	03.16.22 10:23	0.00	0.00	0	0	0	0

*Note: Results for these sessions did not sync and therefore data could not be recovered. However, during this time, the team did not receive any atmospheric alarms or notifications from this monitor.



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**Table 9: Summary of Atmospheric Monitoring Results with Radius BZ1s - Site J-
 Wood River Station – SW Corner of Old Tank Dike
 (Monitoring conducted March 15 through March 17, 2022)**

Location	Instrument	Start Date and Time	Stop Date and Time	Peak (VOC ppm)	TWA (VOC ppm)	PEAK (LEL %)	TWA (LEL %)	Peak (H2S ppm)	TWA (H2S ppm)
J	17030JT-003	03.15.22 11:48	03.15.22 14:41	0.00	0.00	0	0	0	0
J	17053GJ-017	03.15.22 19:18	03.16.22 07:30	1.50	0.01	0	0	0	0
J	17030JT-003	03.16.22 07:28	03.17.22 02:25	0.00	0.00	0	0	0	0
J	17010PY-016	03.17.22 14:31	03.17.22 12:33	0.00	0.00	0	0	0	0

**Table 10: Summary of Atmospheric Monitoring Results with UltraRAE 3000
 Site A – Republic Landfill Boom Site (Division II)**

Instrument serial #	Location	Latitude	Longitude	Date	Time	Benzene	VOC
596-906144	A	38.81986N	90.00923W	03/12/22	17:42	0.00	0.00
596-913049	A	38.81986N	90.00923W	03/13/22	00:20	0.00	0.00
596-907092	A	38.81986N	90.00923W	03/13/22	12:00	0.00	N/A
596-913049	A	38.81986N	90.00923W	03/13/22	12:30	0.00	N/A
596-913049	A	38.81986N	90.00923W	03/13/22	22:43	N/A	0.00
596-913049	A	38.81986N	90.00923W	03/13/22	22:45	0.00	N/A
596-907092	A	38.81986N	90.00923W	03/14/22	10:36	N/A	0.00
596-907092	A	38.81986N	90.00923W	03/14/22	10:38	0.00	N/A
596-907092	A	38.81986N	90.00923W	03/14/22	11:00	N/A	0.00
596-907092	A	38.81986N	90.00923W	03/14/22	11:03	0.00	N/A
596-913049	A	38.81986N	90.00923W	03/14/22	23:18	N/A	0.00
596-913049	A	38.81986N	90.00923W	03/14/22	23:20	0.00	N/A



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**Table 11: Summary of Atmospheric Monitoring Results with UltraRAE 3000
 Site B Dig Site – North of Excavation (Division I)**

Instrument serial #	Location	Latitude	Longitude	Date	Time	Benzene (ppm)	VOC (ppm)
596-907092	B			03/11/22	22:25	0.00	N/A
596-907092	B			03/11/22	22:56	0.00	N/A
596-907092	B			03/11/22	23:05	0.00	N/A
596-907092	B			03/12/22	08:12	0.05	0.05
596-907092	B			03/12/22	0:826	0.05	0.05
596-905215	B			03/12/22	10:45	0.275	0.275
596-904641	B			03/12/22	10:52	0.08	0.08
596-904641	B			03/12/22	11:35	0.04	0.04
596-905215	B			03/12/22	11:08	0.3	0.3
596-907092	B			03/12/22	11:40	0.175	0.175
596-904641	B			03/12/22	11:56	0.04	0.04
596-904641	B			03/12/22	12:57	0.01	0.01
596-904641	B			03/12/22	13:45	0.00	0.00
596-904641	B			03/12/22	14:22	0.02	0.02
596-904641	B			03/12/22	14:53	0.14	0.14
596-907092	B			03/13/22	08:17	0.00	0.00
596-904641	B			03/13/22	09:04	0.06	0.06
596-904641	B			03/13/22	09:32	0.02	0.02
596-904641	B			03/13/22	10:34	0.00	0.00
596-913049	B			03/13/22	19:42	N/A	0.11
596-913049	B			03/13/22	19:44	0.00	N/A
596-913049	B			03/13/22	20:10	N/A	3.81
596-913049	B			03/13/22	20:12	0.11	N/A
596-907092	B			03/14/22	08:34	0.15	N/A
596-907092	B			03/14/22	08:36	N/A	1.2
596-913049	B			03/14/22	19:42	N/A	0.57
596-913049	B			03/14/22	19:44	0.00	N/A
596-913049	B			03/15/22	20:15	N/A	1.4
596-913049	B			03/15/22	20:17	0.00	N/A
596-907092	B			03/16/22	08:03	N/A	9.85
596-907092	B			03/16/22	08:06	0.6	n/A
596-913049	B			03/16/22	20:56	N/A	4.23
596-913049	B			03/16/22	20:58	0.10	N/A



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596-913049	B			03/17/22	11:44	N/A	0.5
596-913049	B			03/17/22	11:46	0.11	N/A
596-904755	B			03/17/22	19:51	N/A	0.3
596-904755	B			03/17/22	19:53	0.00	N/A

**Table 12: Summary of Atmospheric Monitoring Results with UltraRAE 3000
 Site D - Dig Site on IL-143 Bridge (Division I)**

Instrument serial #	Location	Latitude	Longitude	Date	Time	Benzene (ppm)	VOC (ppm)
596-907092	D			03/12/22	10:19	0.175	0.175
596-913049	D			03/12/22	22:22	0.00	0.00
596-907092	D			03/13/22	08:09	0.00	N/A
596-913049	D			03/13/22	20:34	N/A	0.00
596-913049	D			03/13/22	20:36	0.00	N/A
596-907092	D			03/14/22	08:45	N/A	0.25
596-907092	D			03/14/22	08:48	0.00	N/A
596-913049	D			03/14/22	21:28	N/A	0.98
596-913049	D			03/14/22	21:30	0.00	N/A
596-913049	D			03/15/22	20:07	N/A	0.00
596-913049	D			03/15/22	20:07	0.00	N/A
596-907092	D			03/16/22	6:56	N/A	0.00
596-907092	D			03/16/22	6:58	0.00	N/A
596-913049	D			03/16/22	20:36	N/A	0.42
596-913049	D			03/16/22	20:38	0.00	N/A
596-913049	D			03/17/22	11:20	N/A	0.00
596-913049	D			03/17/22	11:22	0.00	N/A
596-904755	D			03/17/22	19:33	N/A	0.00
596-904755	D			03/17/22	19:33	0.00	N/A



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**Table 13: Summary of Atmospheric Monitoring Results with UltraRAE 3000
Site E - Oldenburg Road Boom Site (Division III)**

Instrument serial #	Location	Latitude	Longitude	Date	Time	Benzene (ppm)	VOC (ppm)
596-906144	E	38.80495N	90.07682W	03/11/22	22:23	0.00	0.00
596-906144	E	38.80495N	90.07682W	03/12/22	03:40	0.00	N/A
596-906144	E	38.80495N	90.07682W	03/12/22	05:11	0.00	N/A
596-907092	E	38.80495N	90.07682W	03/12/22	13:20	0.00	0.00
596-904641	E	38.80495N	90.07682W	03/12/22	15:40	0.00	0.00
596-913049	E	38.80495N	90.07682W	03/13/22	01:10	0.00	0.00
596-913049	E	38.80495N	90.07682W	03/13/22	21:30	N/A	0.00
596-913049	E	38.80495N	90.07682W	03/13/22	21:32	0.00	N/A
596-907092	E	38.80495N	90.07682W	03/14/22	9:27	N/A	0.00
596-907092	E	38.80495N	90.07682W	03/14/22	9:32	0.00	N/A
596-913049	E	38.80495N	90.07682W	03/15/22	00:08	N/A	0.00
596-913049	E	38.80495N	90.07682W	03/15/22	00:10	0.00	N/A
596-913049	E	38.80495N	90.07682W	03/15/22	23:28	N/A	0.00
596-913049	E	38.80495N	90.07682W	03/15/22	23:28	0.00	N/A
596-907092	E	38.80495N	90.07682W	03/16/22	16:12	N/A	0.00
596-907092	E	38.80495N	90.07682W	03/16/22	16:14	0.00	N/A
596-913049	E	38.80495N	90.07682W	03/17/22	01:19	N/A	0.00
596-913049	E	38.80495N	90.07682W	03/17/22	01:19	0.00	N/A
596-913049	E	38.80495N	90.07682W	03/17/22	13:10	N/A	0.00
596-913049	E	38.80495N	90.07682W	03/17/22	13:12	0.00	N/A
596-904755	E	38.80495N	90.07682W	03/17/22	21:17	N/A	0.00
596-904755	E	38.80495N	90.07682W	03/17/22	21:17	0.00	N/A



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**Table 14: Summary of Atmospheric Monitoring Results with UltraRAE 3000
Site F - Wanda Road Boom Site (Division II)**

Instrument serial #	Location	Latitude	Longitude	Date	Time	Benzene (ppm)	VOC (ppm)
596-913049	F	38.80489N	90.03858W	03/12/22	22:26	0.00	0.00
596-913049	F	38.80489N	90.03858W	03/13/22	12:00	0.00	N/A
596-907092	F	38.80489N	90.03858W	03/13/22	12:30	0.00	N/A
596-907092	F	38.80489N	90.03858W	03/14/22	7:52	N/A	0.00
596-907092	F	38.80489N	90.03858W	03/14/22	7:55	0.00	N/A
596-913049	F	38.80489N	90.03858W	03/14/22	22:55	N/A	0.00
596-913049	F	38.80489N	90.03858W	03/14/22	22:57	0.00	N/A
596-913049	F	38.80489N	90.03858W	03/15/22	23:09	N/A	0.00
596-913049	F	38.80489N	90.03858W	03/15/22	23:09	0.00	N/A
596-907092	F	38.80489N	90.03858W	03/16/22	15:50	N/A	0.00
596-907092	F	38.80489N	90.03858W	03/16/22	15:55	0.00	N/A
596-913049	F	38.80489N	90.03858W	03/17/22	00:57	N/A	0.00
596-913049	F	38.80489N	90.03858W	03/17/22	00:57	0.00	N/A
596-913049	F	38.80489N	90.03858W	03/17/22	12:34	N/A	0.00
596-913049	F	38.80489N	90.03858W	03/17/22	12:36	0.00	N/A
596-904755	F	38.80489N	90.03858W	03/17/22	20:57	N/A	0.00
596-904755	F	38.80489N	90.03858W	03/17/22	20:57	0.00	N/A



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**Table 15: Summary of Atmospheric Monitoring Results with UltraRAE 3000
 Site G - Lewis and Clark Boulevard Boom Site (Division IV)**

Instrument serial #	Location	Latitude	Longitude	Date	Time	Benzene (ppm)	VOC (ppm)
596-906144	G	38.80536N	90.10079W	03/11/22	22:36	0.00	0.00
596-906144	G	38.80536N	90.10079W	03/12/22	03:18	0.00	0.00
596-906144	G	38.80536N	90.10079W	03/12/22	05:20	0.00	N/A
596-907092	G	38.80536N	90.10079W	03/12/22	12:16	0.175	0.175
596-913049	G	38.80536N	90.10079W	03/12/22	01:45	0.00	0.00
596-913049	G	38.80536N	90.10079W	03/13/22	12:57	0.00	N/A
596-907092	G	38.80536N	90.10079W	03/13/22	13:02	0.00	N/A
596-913049	G	38.80536N	90.10079W	03/13/22	22:35	N/A	0.00
596-913049	G	38.80536N	90.10079W	03/13/22	22:37	0.00	N/A
596-907092	G	38.80536N	90.10079W	03/14/22	11:25	0.00	N/A
596-907092	G	38.80536N	90.10079W	03/14/22	11:26	N/A	0.00
596-913049	G	38.80536N	90.10079W	03/15/22	00:22	0.00	N/A
596-913049	G	38.80536N	90.10079W	03/15/22	00:23	N/A	0.00
596-913049	G	38.80536N	90.10079W	03/15/22	23:50	N/A	0.00
596-913049	G	38.80536N	90.10079W	03/15/22	23:50	0.00	N/A
596-913049	G	38.80536N	90.10079W	03/17/22	13:30	N/A	0.00
596-913049	G	38.80536N	90.10079W	03/17/22	13:32	0.00	N/A

**Table 16: Summary of Atmospheric Monitoring Results with UltraRAE 3000
 Site J - Wood River Station – SW Corner of Old Tank Dike**

Instrument serial #	Location	Latitude	Longitude	Date	Time	Benzene (ppm)	VOC (ppm)
596-913049	J			03/16/22	03:15	N/A	0.32
596-907092	J			03/16/22	10:37	N/A	0.00
596-907092	J			03/16/22	10:39	0.00	N/A
596-913049	J			03/17/22	02:25	N/A	0.00
596-913049	J			03/17/22	02:25	0.00	N/A
596-913049	J			03/17/22	14:16	N/A	0.00
596-913049	J			03/17/22	14:19	0.00	N/A
596-904755	J			03/17/22	19:10	N/A	0.00
596-904755	J			03/17/22	19:10	0.00	N/A



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**Appendix B – Data Tables for Direct Reading Atmospheric
Monitoring of the Community Locations.**



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**Table 17: Summary of Atmospheric Monitoring Results with Radius BZ1s –
 DIV 1 Site C - Old Alton Edwardsville Road Boom Site (Division 1)
 (Monitoring conducted March 11 through March 19, 2022)**

Location	Instrument	Start Date and Time	Stop Date and Time	Peak (VOC ppm)	TWA (VOC ppm)	PEAK (LEL %)	TWA (LEL %)	Peak (H2S ppm)	TWA (VOC ppm)
C	17012VM-001	03.11.22 11:35	03.12.22 11:47	4.9	0.37	0	0	0	0
C*	17012VM-001	03.12.22 11:47	03.13.22 12:40	N/A	N/A	N/A	N/A	N/A	N/A
C	18023XR-008	03.13.22 12:40	03.13.22 20:57	0.00	0.00	0	0	0	0
C	17012VM-001	03.13.22 20:53	03.14.22 10:23	0.00	0.00	0	0	0	0
C	18023XR-008	03.14.22 10:19	03.14.22 22:28	0.00	0.00	0	0	0	0
C	17012VM-001	03.14.22 22:27	03.15.22 10:31	0.00	0.00	0	0	0	0
C*	18023XR-008	03.15.22 10:31	03.15.22 22:48	N/A	N/A	N/A	N/A	N/A	N/A
C	17012VM-001	03.15.22 22:48	03.16.22 8:31	0.70	0.00	0	0	0	0
C	18023XR-008	03.16.22 08:29	03.17.22 00:39	0.20	0.00	0	0	0	0
C	17012VM-001	03.17.22 00:33	03.17.22 12:38	0.30	0.00	0	0	0	0
C	18023XR-008	03.17.22 12:36	03.18.22 14:05	0.00	0.00	0	0	0	0
C	17012VM-001	03.18.22 14:02	03.19.22 11:16	0.00	0.00	0	0	0	0

**Note: Results for these sessions did not sync and therefore data could not be recovered. However, during this time, the team did not receive any atmospheric alarms or notifications from this monitor.*



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**Table 18: Summary of Atmospheric Monitoring Results with Radius BZ1s - DIV 1 Site I - Dig Site – North of Excavation
 (Monitoring conducted March 14 through March 24, 2022)**

Location	Instrument	Start Date and Time	Stop Date and Time	Peak (VOC ppm)	TWA (VOC ppm)	PEAK (LEL %)	TWA (LEL %)	Peak (H2S ppm)	TWA (H2S ppm)
I	200313W-005	03.14.22 16:32	03.15.22 10:08	170.80	19.38	4	0	0	0
I	200313W-005	03.15.22 12:56	03.15.22 22:37	17.50	1.38	0	0	0	0
I	19103TA-001	03.15.22 22:32	03.16.22 08:05	77.10	12.22	0	0	0	0
I	200313W-005	03.16.22 08:02	03.17.22 00:31	27.30	1.91	0	0	0	0
I	19103TA-001	03.17.22 7:52	03.17.22 12:29	6.30	0.06	0	0	0	0
I	200313W-005	03.17.22 12:30	03.18.22 14:03	2.20	0.02	0	0	0	0
I	19103TA-001	03.18.22 14:30	03.19.22 10:55	0.00	0.00	0	0	0	0
I	19103TA-004	03.19.22 14:18	03.20.22 15:00	0.80	0.54	0	0	0	0
I	17012VM-001	03.20.22 14:47	03.21.22 13:31	0.00	0.00	0	0	0	0
I	19103TA-004	03.21.22 13:45	03.22.22 15:18	2.5	0.06	0	0	0	0
I	17012VM-001	03.22.22 15:09	03.23.22 17:40	0.00	0.00	0	0	0	0
I	19103TA-004	03.23.22 17:45	03.24.22 12:41	0.00	0.00	0	0	0.10	0

**Table 19: Summary of Atmospheric Monitoring Results with Radius BZ1s - Site H- Wood River Station – NE Corner of Old Tank Dike
 (Monitoring conducted March 14 through March 19, 2022)**

Location	Instrument	Start Date and Time	Stop Date and Time	Peak (VOC ppm)	TWA (VOC ppm)	PEAK (LEL %)	TWA (LEL %)	Peak (H2S ppm)	TWA (H2S ppm)
H	17010PY-016	03.14.22 15:53	03.15.22 08:36	0.10	0.00	0	0	0	0
H	17010PY-016	03.15.22 09:20	03.15.22 20:17	1.00	0.01	0	0	0	0
H	18123L3-003	03.15.22 20:02	03.16.22 07:34	0.00	0.00	0	0	4.20	3.80
H	17010PY-016	03.16.22 07:28	03.17.22 02:22	0.30	0.00	0	0	0	0
H	18123L3-003	03.17.22 02:20	03.17.22 14:31	0.00	0.00	0	0	0	0
H	17053JT-003	03.17.22 14:31	03.18.22 14:56	0.90	0.24	0	0	0	0
H	18123L3-003	03.18.22 14:54	03.19.22 11:54	0.00	0.00	0	0	5.1	10.84



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**Table 20: Summary of Atmospheric Monitoring Results with UltraRAE 3000
Site C - Old Alton Edwardsville Road Boom Site (Division I)**

Instrument serial #	Location	Latitude	Longitude	Date	Time	Benzene (ppm)	VOC (ppm)
596-913049	C	38.82209 N	89.97949W	03/12/22	21:35	0.00	0.15
596-907092	C	38.82209 N	89.97949W	03/13/22	10:30	0.00	N/A
596-913049	C	38.82209 N	89.97949W	03/13/22	21:00	N/A	0.00
596-913049	C	38.82209 N	89.97949W	03/13/22	21:02	0.00	N/A
596-907092	C	38.82209 N	89.97949W	03/14/22	8:57	N/A	0.00
596-907092	C	38.82209 N	89.97949W	03/14/22	9:00	0.00	N/A
596-913049	C	38.82209 N	89.97949W	03/14/22	22:28	N/A	0.00
596-913049	C	38.82209 N	89.97949W	03/14/22	22:30	0.00	N/A
596-913049	C	38.82209 N	89.97949W	03/15/22	20:51	N/A	0.00
596-913049	C	38.82209 N	89.97949W	03/15/22	20:51	0.00	N/A
596-907092	C	38.82209 N	89.97949W	03/16/22	8:57	N/A	0.00
596-907092	C	38.82209 N	89.97949W	03/16/22	8:59	0.00	N/A
596-913049	C	38.82209 N	89.97949W	03/17/22	00:42	N/A	0.00
596-913049	C	38.82209 N	89.97949W	03/17/22	00:42	0.00	N/A
596-913049	C	38.82209 N	89.97949W	03/17/22	12:07	N/A	0.00
596-913049	C	38.82209 N	89.97949W	03/17/22	12:10	0.00	N/A
596-904755	C	38.82209 N	89.97949W	03/17/22	20:41	N/A	0.00
596-904755	C	38.82209 N	89.97949W	03/17/22	20:41	0.00	N/A



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**Table 21: Summary of Atmospheric Monitoring Results with UltraRAE 3000
 Site H - Wood River Station – NE Corner of Old Tank Dike**

Instrument serial #	Location	Latitude	Longitude	Date	Time	Benzene (ppm)	VOC (ppm)
596-913049	H	[REDACTED]	[REDACTED]	03/15/22	01:51	N/A	0.00
596-913049	H	[REDACTED]	[REDACTED]	03/15/22	01:52	0.00	N/A
596-913049	H	[REDACTED]	[REDACTED]	03/15/22	19:34	N/A	0.00
596-913049	H	[REDACTED]	[REDACTED]	03/15/22	19:34	0.00	N/A
596-907092	H	[REDACTED]	[REDACTED]	03/16/22	10:44	N/A	0.00
596-907092	H	[REDACTED]	[REDACTED]	03/16/22	10:46	0.00	N/A
596-913049	H	[REDACTED]	[REDACTED]	03/17/22	02:22	N/A	0.00
596-913049	H	[REDACTED]	[REDACTED]	03/17/22	02:22	0.00	N/A
596-913049	H	[REDACTED]	[REDACTED]	03/17/22	14:24	N/A	0.00
596-913049	H	[REDACTED]	[REDACTED]	03/17/22	14:26	0.00	N/A
596-904755	H	[REDACTED]	[REDACTED]	03/17/22	19:12	N/A	0.00
596-904755	H	[REDACTED]	[REDACTED]	03/17/22	19:12	0.00	N/A

**Table 22: Summary of Atmospheric Monitoring Results with UltraRAE 3000
 Site I Dig Site – South of Excavation near Old Alton Edwardsville Road (Division I)**

Instrument serial #	Location	Latitude	Longitude	Date	Time	Benzene (ppm)	VOC (ppm)
596-913049	I	38.82208N	89.97539W	03/15/22	9:40	N/A	0.00
596-913049	I	38.82208N	89.97539W	03/15/22	9:40	0.00	N/A
596-913049	I	38.82208N	89.97539W	03/15/22	9:50	N/A	0.00
596-913049	I	38.82208N	89.97539W	03/15/22	9:50	0.00	N/A
596-913049	I	38.82208N	89.97539W	03/15/22	22:33	N/A	2.12
596-913049	I	38.82208N	89.97539W	03/15/22	22:35	0.08	N/A
596-913049	I	38.82208N	89.97539W	03/16/22	03:54	N/A	0.52
596-907092	I	38.82208N	89.97539W	03/16/22	8:38	N/A	1.00
596-907092	I	38.82208N	89.97539W	03/16/22	8:42	0.2	N/A
596-913049	I	38.82208N	89.97539W	03/16/22	23:50	N/A	0.64
596-913049	I	38.82208N	89.97539W	03/16/22	23:52	0.00	N/A
596-913049	I	38.82208N	89.97539W	03/17/22	11:24	N/A	0.00
596-913049	I	38.82208N	89.97539W	03/17/22	11:26	0.00	N/A
596-904755	I	38.82208N	89.97539W	03/17/22	20:30	N/A	0.00
596-904755	I	38.82208N	89.97539W	03/17/22	20:30	0.00	N/A



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**Table 23: Summary of Community Atmospheric Monitoring Results with UltraRAE 3000
 Drda Lane**

Instrument serial #	Location	Latitude	Longitude	Date	Time	Benzene (ppm)	VOC (ppm)
596-913049	Drda Lane			03/12/22	23:00	<0.03	<0.03
596-907092	Drda Lane			03/13/22	09:56	0.00	N/A
596-907092	Drda Lane			03/14/22	09:55	0.00	N/A
596-907092	Drda Lane			03/14/22	09:57	N/A	0.00
596-913049	Drda Lane			03/15/22	20:39	N/A	0.00
596-913049	Drda Lane			03/15/22	20:41	0.00	N/A
596-913049	Drda Lane			03/15/22	20:44	N/A	0.00
596-913049	Drda Lane			03/15/22	20:46	0.00	N/A
596-913049	Drda Lane			03/15/22	10:53	N/A	0.00
596-913049	Drda Lane			03/15/22	10:55	0.00	N/A
596-907092	Drda Lane			03/16/22	9:45	N/A	0.00
596-907092	Drda Lane			03/16/22	9:47	0.00	N/A
596-913049	Drda Lane			03/17/22	10:05	N/A	0.00
596-913049	Drda Lane			03/17/22	10:07	0.00	N/A

**Table 34: Summary of Community Atmospheric Monitoring Results with UltraRAE 3000
 Phillipena Street**

Instrument serial #	Location	Latitude	Longitude	Date	Time	Benzene (ppm)	VOC (ppm)
596-913049	Phillipena St			03/15/22	10:30	N/A	0.00
596-913049	Phillipena St			03/15/22	10:32	0.00	N/A
596-913049	Phillipena St			03/15/22	10:36	N/A	0.00
596-913049	Phillipena St			03/15/22	10:38	0.00	N/A
596-907092	Phillipena St			03/16/22	9:30	N/A	0.00
596-907092	Phillipena St			03/15/22	9:33	0.00	N/A
596-913049	Phillipena St			03/17/22	9:55	N/A	0.00
596-913049	Phillipena St			03/17/22	9:57	0.00	N/A



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**Table 25: Summary of Community Atmospheric Monitoring Results with UltraRAE 3000
Wagon Wheel Road**

Instrument serial #	Location	Latitude	Longitude	Date	Time	Benzene (ppm)	VOC (ppm)
596-913049	Wagon Wheel Road	████████	████████	03/16/22	09:25	N/A	0.00
596-913049	Wagon Wheel Road	████████	████████	03/16/22	09:30	0.00	N/A
596-913049	Wagon Wheel Road	████████	████████	03/17/22	12:44	N/A	0.00
596-913049	Wagon Wheel Road	████████	████████	03/17/22	12:46	0.00	N/A

**Table 26: Summary of Community Atmospheric Monitoring Results with UltraRAE 3000
Winston Brown Recreation Park**

Instrument serial #	Location	Latitude	Longitude	Date	Time	Benzene (ppm)	VOC (ppm)
596-913049	Winston Brown Recreation Park	38.81875N	89.97508 W	03/17/22	9:26	N/A	0.00
596-913049	Winston Brown Recreation Park	38.81875N	89.97508 W	03/17/22	9:29	0.00	N/A



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**Appendix C – Data Tables for Atmospheric Monitoring Results with
Organic Vapor Monitor Analysis**



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Table 27: Summary of Atmospheric Organic Vapor Monitor Details 03/11/22

Type	Location	Start Time	Stop Time	Serial #	Company	Comments
Personal	Div I	22:20	05:00	P017447	Marathon	Void Not Returned
Area	Div I – Location D	22:40	10:52	P012952	N/A	Sample No. LNS222006B
Area	Div I – Location B	00:25	N/A	P017340	N/A	Void Damaged (Cover missing)
Area	Div I – Location C	00:25	N/A	P015914	N/A	Void (Never opened)
Personal	Div II	22:00	N/A	PL4990	Bolin	Void Returned Late
Personal	Div II	23:00	N/A	PL6690	Marathon	Void Not Returned
Personal	Div III	22:19	05:00	PL4915	Marathon	Sample No. LNS220032
Area	Div III – Site E	22:23	13:18	PL4186	N/A	Void Returned Late
Area	Div 4 – Site G	23:26	12:24	PL4163	N/A	Void Returned Late
Area	Div 4 – At Bridge and Crosswalk	23:52	12:51	PL4816	N/A	Void Returned Late
Personal	Div IV	17:30	N/A	P014236	Marathon	Void Not Returned

Table 28: Summary of Atmospheric Monitoring Results with Organic Vapor Monitor Analysis 03/11/22

Type	Location	Date	Start Time	Stop Time	Benzene (ppm)	Ethylbenzene (ppm)	Hexane (ppm)	Toluene (ppm)	Xylene (ppm)	VOCs (ppm)
Area	D	03/11/22	22:40	10:52	<0.044	<0.11	0.15	<0.11	<0.11	2.1
Personal	Div III	03/11/22	22:19	05:00	<0.038	<0.091	<0.067	<0.098	<0.21	<1.0



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Table 29: Summary of Atmospheric Organic Vapor Monitor Details 03/12/22

Type	Location	Start Time	Stop Time	Serial #	Company	Comments
Area	Div I Site D	10:10	20:15	P017539	N/A	Sample No. LNS222012B
Area	Div I Site C	11:42	21:30	PH7073	N/A	Sample No. LNS222010B
Area	Div II Site E	13:36	01:00	PH5710	N/A	Sample No. LNS222011B
Area	Divi IV – Site G	12:28	01:41	PL4278	N/A	Sample No. LNS222007B
Area	Div IV – Site G at Bridge and Crosswalk	12:56	01:51	PH4828	N/A	Sample No. LNS222027B
Area	Div I Site D	20:17	09:56	P017416	N/A	Sample No. LNS222016B
Area	Div I Site B	23:00	10:10	PL4870	N/A	Sample No. LNS222019B
Area	Div I Site C	21:36	10:28	PH7877	N/A	Sample No. LNS222017B
Personal	Div I	21:06	04:00	PH4784	Marathon	Sample No. LNS220033
Area	Div II Site F	22:24	13:08	PH6255	N/A	Sample No. LNS222013B

Table 30: Summary of Atmospheric Monitoring Results with Organic Vapor Monitor Analysis 03/12/22

Type	Location	Date	Start Time	Stop Time	Benzene (ppm)	Ethylbenzene (ppm)	Hexane (ppm)	Toluene (ppm)	Xylene (ppm)	VOCs (ppm)
Area	D	03/12/22	10:10	20:15	<0.053	<0.13	<0.095	<0.14	<0.30	<1.4
Area	C	03/12/22	11:42	21:30	<0.055	<0.13	<0.098	<0.14	<0.31	<1.5
Area	E	03/12/22	13:36	01:00	<0.047	<0.11	<0.084	<0.12	<0.27	<1.3
Area	G	03/12/22	12:28	01:41	<0.041	<0.098	<0.072	<0.11	<0.23	<1.1
Area	G at Bridge and Crosswalk	03/12/22	12:56	01:51	<0.042	<0.10	<0.074	<0.11	<0.24	<1.1
Area	D	03/12/22	20:17	09:56	<0.039	<0.095	0.11	<0.12	<0.26	<1.2
Area	B	03/12/22	23:00	10:10	0.16	<0.056	1.2	0.21	0.15	16
Area	C	03/12/22	21:36	10:28	<0.042	<0.10	<0.074	<0.11	<0.24	<1.1
Personal	Div I	03/12/22	21:06	04:00	0.30	<0.18	2.6	0.29	<0.46	38
Area	F	03/12/22	22:24	13:08	<0.037	<0.088	<0.065	<0.095	<0.21	<0.97



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Table 31: Summary of Atmospheric Organic Vapor Monitor Details 03/13/22

Type	Location	Start Time	Stop Time	Serial #	Company	Comments
Personal	Division I – Dig Site	8:01	16:56	LM5328	Marathon	Sample No. LNS220035
Personal	Division III – Boom Site	9:06	17:44	LM5321	Environmental Restoration	Sample No. LNS220036
Area	Div II Site A	00:15	14:51	PO14317	N/A	Sample No. LNS222008B
Area	Div III Site E	01:02	13:31	PO13352	N/A	Sample No. LNS222009B
Area	Divi IV – Site G	01:43	13:59	PH6601	N/A	Sample No. LNS222014B
Area	Div IV – Site G at Bridge and Crosswalk	01:53	13:50	PL4630	N/A	Sample No. LNS222015B
Area	Div I – Site D	10:00	20:29	PO17474	N/A	Sample No. LNS222018B
Area	Div I – Site B	12:20	19:33	PH4987	N/A	Sample No. LNS222021B
Area	Div I – Site C	10:28	20:55	PO14163	N/A	Sample No. LNS222023B
Area	Drda Lane	9:55	17:17	LM5310	Community	Sample No. LNS222036B
Area	Div II Site A	14:48	23:40	PO17603	N/A	Sample No. LNS222022B
Area	Div II Site F	13:03	23:06	PO14623	N/A	Sample No. LNS222024B
Area	Div III Site E	13:37	21:34	PO17275	N/A	Sample No. LNS222026B
Area	Divi IV – Site G	13:57	22:37	PO13028	N/A	Sample No. LNS222020B
Area	Div IV – Site G at Bridge and Crosswalk	13:53	22:44	PL3826	N/A	Sample No. LNS222025B
Area	Div I – Site D	20:29	9:53	PO17088	N/A	Sample No. LNS222034B
Personal	Division I – Dig Site	19:45	4:25	LM5339	Marathon	Sample No. LNS220034
Personal	Division III – Boom Site	21:58	5:03	LM5331	Environmental Restoration	Sample No. LNS220037
Area	Div I – Site B	19:32	10:02	PO13530	N/A	Sample No. LNS222030B
Area	Div I – Site C	20:55	10:20	PO17374	N/A	Sample No. LNS222033B
Area	Div I – Site C – on road at 35 mph sign below houses	21:05	14:09	PO17206	Community	Sample No. LNS222066B
Area	Div II Site A	23:37	13:50	PL4137	N/A	Sample No. LNS222032B
Area	Div II Site F	23:04	Void	PH8410	N/A	Void (Never opened)
Area	Div III Site E	21:33	12:46	PO13898	N/A	Sample No. LNS222031B
Area	Divi IV – Site G	22:35	12:25	PO15529	N/A	Sample No. LNS222029B
Area	Div IV – Site G at Bridge and Crosswalk	22:45	12:32	PO13551	N/A	Sample No. LNS222035B



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**Table 32: Summary of Atmospheric Monitoring Results with Organic Vapor Monitor Analysis
 03/13/22**

Type	Location	Date	Start Time	Stop Time	Benzene (ppm)	Ethylbenzene (ppm)	Hexane (ppm)	Toluene (ppm)	Xylene (ppm)	VOCs (ppm)
Personal	Div I – Dig Site	03/13/22	8:01	16:56	0.15	<0.047	1.2	0.21	0.014	15
Personal	Div III – Boom Site	03/13/22	9:06	17:44	<0.017	<0.049	<0.034	<0.049	<0.098	1.0
Area	A	03/13/22	10:10	20:15	<0.037	<0.089	<0.066	<0.096	<0.21	<0.98
Area	E	03/13/22	01:02	13:31	<0.043	<0.10	<0.077	<0.11	<0.24	<1.2
Area	G	03/13/22	01:43	13:59	<0.044	<0.11	<0.078	<0.11	<0.25	<1.2
Area	G at Bridge and Crosswalk	03/13/22	01:53	13:50	<0.045	<0.095	<0.074	<0.11	<0.24	<1.1
Area	D	03/13/22	10:00	20:29	<0.051	<0.12	<0.091	<0.13	<0.29	<1.4
Area	B	03/13/22	12:20	19:33	<0.075	<0.18	0.36	<0.19	<0.42	5.4
Area	C	03/13/22	10:28	20:55	<0.052	<0.12	<0.092	<0.13	<0.29	<1.2
Area	Drda Lane	03/13/22	9:55	17:17	<0.020	<0.057	<0.040	<0.057	<0.60	<0.11
Area	A	03/13/22	14:48	23:40	<0.061	<0.15	<0.11	<0.16	<0.34	<1.6
Area	F	03/13/22	13:03	23:06	<0.054	<0.13	<0.095	<0.14	<0.30	<1.4
Area	E	03/13/22	13:37	21:34	<0.068	<0.16	<0.12	<0.18	<0.38	<1.8
Area	G	03/13/22	13:57	22:37	<0.062	<0.15	<0.11	<0.16	<0.35	<1.7
Area	G at Bridge and Crosswalk	03/13/22	13:53	22:44	<0.063	<0.15	<0.11	<0.15	<0.36	<1.7
Area	D	03/13/22	20:29	9:53	<0.040	<0.096	0.22	<0.10	<0.22	<1.0
Personal	Div I – Dig Site	03/13/22	19:45	4:25	0.11	<0.049	0.90	0.14	0.10	13
Personal	Div III – Boom Site	03/13/22	21:58	5:03	<0.021	<0.060	<0.042	<0.060	<0.12	<0.63
Area	B	03/13/22	19:32	10:02	0.18	<0.089	1.3	0.23	<0.21	16
Area	C	03/13/22	20:55	10:20	<0.040	<0.096	<0.071	<0.10	<0.23	<1.1



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Area	C on road at 35 mph sign below houses	03/13/22						<0.082	<0.18	<0.84
			21:05	14:09	<0.032	<0.076	<0.056			
Area	A	03/13/22	23:37	13:50	<0.038	<0.091	<0.067	<0.098	<0.21	<1.0
Area	F	03/13/22	23:04	Void	Void	Void	Void	Void	Void	Void
Area	E	03/13/22	21:33	12:46	<0.035	<0.085	<0.063	<0.092	<0.20	<0.94
Area	G	03/13/22	22:35	12:25	<0.039	<0.093	<0.069	<0.10	<0.22	<1.0
Area	G at Bridge and Crosswalk	03/13/22						<0.10	<0.22	<1.0
			22:45	12:32	<0.039	<0.094	<0.069			



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Table 33: Summary of Atmospheric Organic Vapor Monitor Details 03/14/22

Type	Location	Start Time	Stop Time	Serial #	Company	Comments
Personal	Division I – Dig Site	8:29	16:35	LM5350	Marathon	Sample No. LNS220039
Personal	Division III – Boom Site	9:24	16:54	LM5319	Environmental Restoration	Sample No. LNS220038
Area	Div I – Site D	9:53	21:26	PO14709	N/A	Sample No. LNS222028B
Area	Div I – Site B	10:02	21:45	PO14668	N/A	Sample No. LNS222064B
Area	Div I – Site C	10:20	22:26	PO16006	N/A	Sample No. LNS222059B
Area	Drda Lane	9:52	16:24	LM5326	Community	Sample No. LNS222037B
Area	Div I – Site I	16:31	22:12	PO17101	N/A	Sample No. LNS222058B
Area	Div II Site A	13:50	23:33	PO15942	N/A	Sample No. LNS222060B
Area	Div II Site F	13:15	22:50	PL4257	N/A	Sample No. LNS222057B
Area	Div III Site E	12:46	0:06	PH8302	N/A	Sample No. LNS222065B
Area	Divi IV – Site G	14:48	23:40	PO12907	N/A	Sample No. LNS222061B
Area	Div IV – Site G at Bridge and Crosswalk	12:25	0:21	PO13415	N/A	Sample No. LNS222062B
Area	Wood River Soil Pile	16:06	1:49	PO17104	N/A	Sample No. LNS222063B
Area	Div I – Site D	21:28	12:38	PP05473	N/A	Sample No. LNS222038B
Area	Div I – Site B	21:46	12:45	PP05903	N/A	Sample No. LNS222044B
Area	Div I – Site C	22:26	10:30	PP06318	N/A	Sample No. LNS222042B
Area	Drda Lane	20:44	10:54	PP00369	Community	Sample No. LNS222047B
Area	Div I – Site I	22:12	10:09	PP04947	N/A	Sample No. LNS222043B
Area	Div II Site A	23:18	11:48	PP00270	N/A	Sample No. LNS222039B
Area	Div II Site F	22:53	11:34	PP06078	N/A	Sample No. LNS222041B



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Table 34: Summary of Work Site Atmospheric Monitoring Results with Organic Vapor Monitor Analysis 03/14/22

Type	Location	Date	Start Time	Stop Time	Benzene (ppm)	Ethylbenzene (ppm)	Hexane (ppm)	Toluene (ppm)	Xylene (ppm)	VOCs (ppm)
Personal	Division I – Dig Site	03/14/22	8:29	16:35	0.057	<0.052	0.43	0.10	<0.10	6.2
Personal	Division III – Boom Site	03/14/22	9:24	16:54	<0.020	<0.056	<0.039	<0.056	<0.11	<0.59
Area	D	03/14/22	9:53	21:26	<0.037	<0.089	<0.066	<0.096	<0.21	<0.98
Area	B	03/14/22	10:02	21:45	<0.063	<0.11	0.47	<0.12	<0.26	6.1
Area	C	03/14/22	10:20	22:26	<0.044	<0.11	<0.079	<0.12	<0.25	<1.2
Area	Drda Lane	03/14/22	9:52	16:24	<0.022	<0.065	<0.045	<0.065	<0.68	<0.13
Area	I	03/14/22	16:31	22:12	<0.060	<0.14	<0.11	<0.16	<0.34	<1.6
Area	A	03/14/22	13:50	23:33	<0.055	<0.13	0.099	<0.14	<0.31	<1.5
Area	F	03/14/22	13:15	22:50	<0.095	<0.23	<0.17	<0.25	<0.54	<2.5
Area	E	03/14/22	12:46	0:06	<0.048	<0.11	<0.084	<0.12	<0.27	<1.3
Area	G	03/14/22	14:48	23:40	<0.061	<0.15	<0.11	<0.16	<0.34	<1.6
Area	G at Bridge and Crosswalk	03/14/22	12:25	00:21	<0.045	<0.11	<0.080	<0.12	<0.26	<1.2
Area	Wood River Soil Pile	03/14/22	16:06	1:49	<0.055	<0.13	<0.099	<0.14	<0.31	<1.5
Area	D	03/14/22	21:28	12:38	<0.035	<0.085	<0.063	<0.092	<0.20	<0.95
Area	B	03/14/22	21:46	12:45	0.12	<0.086	0.87	0.14	<0.20	11
Area	C	03/14/22	22:26	10:30	<0.045	<0.11	0.079	<0.12	<0.25	<1.2
Area	Drda Lane	03/14/22	20:44	10:54	<0.038	<0.091	<0.068	<0.099	<0.22	<1.0
Area	I	03/14/22	22:12	10:09	0.26	<0.11	0.87	0.14	<0.20	11
Area	A	03/14/22	23:18	11:48	<0.043	<0.10	<0.077	<0.11	<0.24	<1.1
Area	F	03/14/22	22:53	11:34	<0.042	<0.10	<0.075	<0.11	<0.24	<1.1



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Table 35: Summary of Atmospheric Organic Vapor Monitor Details 03/15/22

Type	Location	Start Time	Stop Time	Serial #	Company	Comments
Area	Div III Site E	00:08	11:16	PP05507	N/A	Sample No. LNS222048B
Area	Divi IV – Site G	00:22	10:57	PP05469	N/A	Sample No. LNS222046B
Area	Div IV – Site G at Bridge and Crosswalk	00:30	11:04	PP00327	N/A	Sample No. LNS222045B
Area	Wood River Soil Pile	01:49	08:34	PP05730	N/A	Sample No. LNS222040B
Area	Div I – Site D	12:38	22:02	PP05699	N/A	Sample No. LNS222067B
Area	Div I – Site B	12:45	22:15	PP02285	N/A	Sample No. LNS222068B
Area	Div I – Site C	10:30	22:51	PP05492	N/A	Sample No. LNS222069B
Area	Div I – Site I	12:57	22:33	PP00341	N/A	Sample No. LNS222070B
Area	Div II Site A	11:48	14:41	PP00321	N/A	Sample No. LNS222071B
Area	Div II Site F	11:34	23:09	PP05566	N/A	Sample No. LNS222072B
Area	Div III Site E	11:16	23:28	PP00253	N/A	Sample No. LNS222073B
Area	Divi IV – Site G	10:57	23:50	PP04927	N/A	Sample No. LNS222074B
Area	Div IV – Site G at Bridge and Crosswalk	11:04	23:56	PP00251	N/A	Sample No. LNS222075B
Area	Wood River Soil Pile	9:19	19:34	PP00377	N/A	Sample No. LNS222086B
Area	Div I – Site D	22:02	10:47	PP06161	N/A	Sample No. LNS222076B
Area	Div I – Site B	22:15	10:59	PP06389	N/A	Sample No. LNS222077B
Area	Div I – Site C	22:51	8:27	PP06107	N/A	Sample No. LNS222078B
Area	Div I – Site I	22:33	8:05	PP05859	N/A	Sample No. LNS222079B
Area	Div II Site F	23:09	9:41	PP06281	N/A	Sample No. LNS222080B
Area	Div III Site E	23:28	10:03	PP05066	N/A	Sample No. LNS222081B
Area	Divi IV – Site G	23:50	10:22	PP06130	N/A	Sample No. LNS222082B
Area	Div IV – Site G at Bridge and Crosswalk	23:56	10:17	PP05424	N/A	Sample No. LNS222083B
Area	Wood River Soil Pile – Site H	19:34	7:32	PP00507	N/A	Sample No. LNS222084B
Area	Wood River Soil Pile – Site J	19:18	7:28	PP05446	N/A	Sample No. LNS222085B



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Table 36: Summary of Work Site Atmospheric Monitoring Results with Organic Vapor Monitor Analysis 03/15/22

Type	Location	Date	Start Time	Stop Time	Benzene (ppm)	Ethylbenzene (ppm)	Hexane (ppm)	Toluene (ppm)	Xylene (ppm)	VOCs (ppm)
Area	E	03/15/22	12:46	0:06	<0.048	<0.12	<0.086	<0.13	<0.27	<1.3
Area	G	03/15/22	14:48	23:40	<0.051	<0.12	<0.090	<0.13	<0.29	<1.4
Area	G at Bridge and Crosswalk	03/15/22	12:25	0:21	<0.051	<0.12	<0.091	<0.13	<0.29	<1.4
Area	Wood River Soil Pile	03/15/22	16:06	1:49	<0.080	<0.19	<0.14	<0.21	<0.45	<2.1
Area	D	03/15/22	12:38	22:02	<0.057	<0.14	<0.10	<0.15	<0.32	<1.5
Area	B	03/15/22	12:45	22:15	<0.057	<0.14	0.18	<0.15	<0.32	2.6
Area	C	03/15/22	10:30	22:51	<0.044	<0.10	<0.078	<0.11	<0.25	<1.2
Area	I	03/15/22	12:57	22:33	<0.056	<0.13	0.21	<0.15	<0.32	2.8
Area	A	03/15/22	11:48	14:41	<0.19	<0.45	<0.33	<0.49	<0.1.1	<5.0
Area	F	03/15/22	11:34	23:09	<0.046	<0.11	<0.083	<0.12	<0.26	<1.2
Area	E	03/15/22	11:16	23:28	<0.044	<0.11	<0.078	<0.11	<0.25	<1.2
Area	G	03/15/22	10:57	23:50	<0.042	<0.10	<0.074	<0.11	<0.24	<1.1
Area	G at Bridge and Crosswalk	03/15/22	11:04	23:56	<0.042	<0.10	<0.074	<0.11	<0.24	<1.1
Area	Wood River Soil Pile	03/15/22	9:19	19:34	<0.053	<0.13	<0.093	<0.14	<0.30	<1.4
Area	D	03/15/22	22:02	10:47	<0.042	<0.10	<0.075	<0.11	<0.24	<1.1
Area	B	03/15/22	22:15	10:59	<0.042	<0.10	0.20	<0.11	<0.24	2.7
Area	C	03/15/22	22:51	8:27	<0.056	<0.13	<0.10	<0.15	<0.32	<1.5
Area	I	03/15/22	22:33	8:05	0.18	<0.14	1.3	0.29	<0.32	17
Area	F	03/15/22	23:09	9:41	<0.051	<0.12	<0.091	<0.13	<0.29	<1.4
Area	E	03/15/22	23:28	10:03	<0.051	<0.12	<0.090	<0.13	<0.29	<1.4
Area	G	03/15/22	23:50	10:22	<0.051	<0.12	<0.091	<0.13	<0.29	<1.4
Area	G at Bridge and Crosswalk	03/15/22	23:56	10:17	<0.052	<0.12	<0.092	<0.14	<0.30	<1.4
Area	Wood River Soil Pile – Site H	03/15/22	19:34	7:32	<0.045	<0.11	<0.080	<0.12	<0.26	<1.2
Area	Wood River Soil Pile – Site J	03/15/22	19:18	7:28	<0.044	<0.11	<0.079	<0.12	<0.25	<1.2



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Table 37: Summary of Atmospheric Organic Vapor Monitor Details 03/16/22

Type	Location	Start Time	Stop Time	Serial #	Company	Comments
Personal	Division I – Dig Site	7:15	16:52	PP00359	Marathon	Sample No. LNS220048
Area	Div I – Site D	10:47	20:34	PP00333	N/A	Sample No. LNS222087B
Area	Div I – Site B	10:59	20:56	PP02278	N/A	Sample No. LNS222088B
Area	Div I – Site C	8:29	N/A	PP00310	N/A	Void (Never opened)
Area	DrDa Drive	9:08	17:03	PP05377	N/A	Sample No. LNS222095B
Area	Phillipena Street	9:30	16:56	PP02595	N/A	Sample No. LNS222094B
Area	Div I – Site I	8:05	23:50	PP02157	N/A	Sample No. LNS222089B
Area	Div II Site F	9:41	00:57	PP00364	N/A	Sample No. LNS222090B
Area	Div III Site E	10:03	01:57	PP02089	N/A	Sample No. LNS222091B
Area	Wood River Soil Pile – Site H	07:32	2:20	PP05432	N/A	Sample No. LNS222092B
Area	Wood River Soil Pile – Site J	07:28	2:19	PP00396	N/A	Sample No. LNS222093B
Area	Div I – Site D	20:34	12:03	PP01664	N/A	Sample No. LNS222105B
Area	Div I – Site B	20:56	12:12	PP05364	N/A	Sample No. LNS222106B
Area	Div I – Site I	23:50	12:30	PP02665	N/A	Sample No. LNS222108B



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Table 38: Summary Time Weighted Average (TWA) Atmospheric Monitoring Results with Organic Vapor Monitor Analysis 03/16/22

Type	Location	Date	Start Time	Stop Time	Benzene (ppm)	Ethylbenzene (ppm)	Hexane (ppm)	Toluene (ppm)	Xylene (ppm)	VOCs (ppm)
Personal	Division I - Dig Site	03/16/22	7:15	16:52	<0.056	<0.13	0.11	<0.15	<0.32	1.7
Area	D	03/16/22	10:47	20:34	<0.055	<0.13	<0.098	<0.14	<0.31	<1.5
Area	B	03/16/22	10:59	20:56	0.12	<0.13	0.73	0.18	<0.31	10
Area	DrDa Drive	03/16/22	9:08	17:03	<0.072	<0.17	<0.13	<0.19	<0.41	<1.9
Area	Phillipen a Street	03/16/22	9:30	16:56	<0.068	<0.16	<0.12	<0.18	<0.39	<1.8
Area	I	03/16/22	8:05	23:50	<0.034	<0.082	0.12	<0.089	<0.19	1.7
Area	F	03/16/22	9:41	00:57	<0.035	<0.085	<0.063	<0.092	<0.20	<0.94
Area	E	03/16/22	10:03	01:57	<0.034	<0.081	<0.060	<0.088	<0.19	<0.90
Area	H	03/16/22	07:32	2:20	<0.029	<0.069	<0.051	<0.074	<0.16	<0.76
Area	J	03/16/22	07:28	2:19	<0.029	<0.069	<0.051	<0.074	<0.16	<0.96
Area	D	03/16/22	20:34	12:03	<0.035	<0.083	<0.062	<0.090	<0.20	<0.93
Area	B	03/16/22	20:56	12:12	0.91	<0.085	0.56	0.14	<0.20	7.3
Area	I	03/16/22	23:50	12:30	<0.043	<0.10	0.11	<0.11	<0.24	1.6



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Table 39: Summary of Atmospheric Organic Vapor Monitor Details 03/17/22

Type	Location	Start Time	Stop Time	Serial #	Company	Comments
Area	Div I – Site C	00:40	12:38	PP05437	N/A	Sample No. LNS222107B
Area	Div II Site F	00:57	14:05	PP05512	N/A	Sample No. LNS222109B
Area	Div III Site E	1:57	13:43	PP05649	N/A	Sample No. LNS222110B
Area	Wood River Soil Pile – Site H	2:20	14:33	PP01890	N/A	Sample No. LNS222111B
Area	Wood River Soil Pile – Site J	2:19	14:31	PP02674	N/A	Sample No. LNS222112B
Personal	Div I – Dig Site	11:34	17:30	PP01265	Marathon	Sample No. LNS220049
Personal	Div I – Dig Site	11:40	17:41	PP06156	Geeding Construction	Sample No. LNS220050
Area	Div I – Site D	12:03	19:31	PP01455	N/A	Sample No. LNS222113B
Area	Div I – Site B	12:12	19:49	PP02139	N/A	Sample No. LNS222114B
Area	Div I – Site C	12:38	20:40	PP01901	N/A	Sample No. LNS222115B
Area	DrDa Drive	10:05	17:56	PP02609	N/A	Sample No. LNS222116B
Area	Phillipena Street	9:54	17:50	PP06473	N/A	Sample No. LNS222117B
Area	Div I – Site I	12:30	20:29	PP00635	N/A	Sample No. LNS222118B
Area	Div II Site F	14:05	20:56	PP01476	N/A	Sample No. LNS222119B
Area	Wagon Wheel Road	12:46	21:35	PP01170	N/A	Sample No. LNS222120B
Area	Div III Site E	13:43	21:15	PP05397	N/A	Sample No. LNS222121B
Area	Wood River Soil Pile – Site H	14:31	19:10	PP01939	N/A	Sample No. LNS222122B
Area	Wood River Soil Pile – Site J	14:33	19:09	PP01327	N/A	Sample No. LNS222123B
Personal	Div I – Dig Site	11:34	17:30	PP05010	Marathon	Sample No. LNS220051
Personal	Div I – Dig Site	11:40	17:41	PP06248	Geeding Construction	Sample No. LNS220052
Area	Div I – Site B	23:05	13:43	PP02334	N/A	Sample No. LNS222124B
Area	Div I – Site I	21:45	13:54	PP05802	N/A	Sample No. LNS222125B



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Table 40: Summary of Work Site Atmospheric Monitoring Results with Organic Vapor Monitor Analysis 03/17/22

Type	Location	Date	Start Time	Stop Time	Benzene (ppm)	Ethylbenzene (ppm)	Hexane (ppm)	Toluene (ppm)	Xylene (ppm)	VOCs (ppm)
Area	C	03/17/22	00:40	12:38	<0.045	<0.11	<0.080	<0.12	<0.26	<1.2
Area	F	03/17/22	00:57	14:05	<0.041	<0.098	<0.073	<0.11	<0.23	<1.1
Area	E	03/17/22	1:57	13:43	<0.046	<0.11	<0.081	<0.12	<0.26	<1.2
Area	H	03/17/22	2:20	14:33	<0.044	<0.11	<0.078	<0.11	<0.25	<1.2
Area	J	03/17/22	2:19	14:31	<0.044	<0.11	<0.078	<0.11	<0.25	<1.2
Personal	Div I – Dig Site	03/17/22	11:34	17:30	0.11	<0.22	0.55	0.24	<0.51	9.2
Personal	Div I – Dig Site	03/17/22	11:40	17:41	<0.089	<0.21	0.28	<0.23	<0.51	4.5
Area	D	03/17/22	12:03	19:31	<0.072	<0.17	<0.13	<0.19	<0.41	<1.9
Area	B	03/17/22	12:12	19:49	<0.071	<0.17	<0.13	<0.18	<0.40	<1.9
Area	C	03/17/22	12:38	20:40	<0.067	<0.16	<0.12	<0.17	<0.38	<1.8
Area	DrDa Drive	03/17/22	10:05	17:56	<0.069	<0.16	<0.12	<0.18	<0.39	<1.8
Area	Phillipena Street	03/17/22	9:54	17:50	<0.068	<0.16	<0.12	<0.18	<0.38	<1.8
Area	I	03/17/22	12:30	20:29	<0.067	<0.16	<0.12	<0.18	<0.38	<1.8
Area	F	03/17/22	14:05	20:56	<0.079	<0.19	<0.14	<0.20	<0.45	<2.1
Area	Wagon Wheel Road	03/17/22	12:46	21:35	<0.061	<0.15	<0.11	<0.16	<0.35	<1.6
Area	E	03/17/22	13:43	21:15	<0.071	<0.16	<0.13	<0.19	<0.41	<1.9
Area	H	03/17/22	14:31	19:10	<0.012	<0.28	<0.21	<0.30	<0.66	<3.1
Area	J	03/17/22	14:33	19:09	<0.012	<0.28	<0.21	<0.30	<0.66	<3.1
Personal	Div I – Dig Site	03/17/22	19:55	03:30	0.080	<0.17	0.40	<0.18	<0.40	6.6
Personal	Div I – Dig Site	03/17/22	20:12	03:45	<0.071	<0.17	<0.13	<0.19	<0.40	<1.9
Area	B	03/17/22	23:05	13:43	<0.037	<0.088	<0.065	<0.096	<0.21	<0.98
Area	I	03/17/22	21:45	13:54	<0.033	<0.080	<0.059	<0.087	<0.19	<0.89



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FAX 419/425-3917

Appendix D – Data Tables for Evacuated Canisters



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Table 41: Results of Volatile Organic Compounds (VOCs) Area Air Samples with Evacuated Canisters

Compound	Site H Days 03/15/22 (ppb)	Site I Days 03/15/22 (ppb)	Site C Days 03/15/22 (ppb)	Site H Nights 03/15/22 (ppb)	Roxanna Park Nights 03/15/22 (ppb)	Drda Drive Nights 03/15/22 (ppb)	Site I Nights 03/15/22 (ppb)	Phillipena Avenue/Henry Street Nights 03/15/22 (ppb)	EPA Dose Response Value (ppb)	ACGIH TLV 8-Hour (ppb)
1,1,1-Trichlorethane	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	920	350,000
1,1,2,2-Tetechlorethane	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	N/A	1,000
1,1,2-Trichloroethane	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	N/A	10,000
1,1-Dichloroethane	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	120	100,000
1,1-Dichloroethylene	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	N/A	200,000
1,2,4-Trichlorobenzene	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	27	N/A
1,2,4-Trimethylbenzene	<0.050	7.8	<0.050	<0.050	<0.050	<0.050	7.5	<0.050	N/A	25,000
Ethylene Dibromide	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	1	N/A
1,2-Dichlorobenzene	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	N/A	25,000
1,2-Dichloroethane	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	N/A	10,000
1,2-Dichloropropane	<0.050	<1.3	<0.050	1.6	<0.050	<0.050	<0.050	<0.050	N/A	10,000
1,3,5-Trimethylbenzene	<0.050	2.6	<0.050	<0.050	<0.050	<0.050	2.2	<0.050	N/A	25,000
1,3-Butadiene	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	1	2,000
1,3-Dichlorobenzene	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	N/A	200,000
1,4-Dichlorobenzene	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	10	10,000
1,4-Dioxane	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	8	20,000
2,2,4-Trimethylpentane	0.70	77	<0.050	<0.050	<0.050	<0.050	22	<0.050	N/A	300,000
Methyl Ethyl Ketone (2-Butanone)	<0.050	<1.3	<0.050	0.70	<0.050	<0.050	<0.050	<0.050	N/A	200,000
Methyl Ethyl Butyl (2-Hexanone)	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	N/A	5,000
4-ethyltoluene	<0.050	1.6	<0.050	<0.050	<0.050	<0.050	1.1	<0.050	N/A	N/A
Methyl Isobutyl Ketone	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	730	20,000
Acetone	<1.0	<2.5	<1.0	11	3.7	4.1	<1.0	<1.0	N/A	250,000
Allyl Chloride	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.3	1,000
Benzene	1.0	180	0.61	<0.050	<0.050	<0.050	50	0.74	9	500
Benzyl Chloride	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	N/A	1,000
Bromodichloromethane	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	N/A	200,000
Vinyl Bromide	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.7	500
Bromoform	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	N/A	500
Bromomethane	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	N/A	1,000
Carbon Disulfide	0.89	<1.3	1.7	1.6	<0.050	<0.050	<0.050	<0.050	220	1,000
Carbon Tetrachloride	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	16	5,000
Chlorobenzene	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	220	10,000
Chloroethane	<0.050	<1.3	0.65	<0.050	<0.050	<0.050	<0.050	<0.050	N/A	100,000
Chloroform	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	20	10,000
Chloromethane	<0.050	<1.3	0.58	0.98	0.68	0.80	<0.050	<0.050	N/A	50,000
Cis-1,2-Dichloroethylene	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	N/A	200,000
Cis-1,2-Dichloropropene	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	N/A	200,000
Cyclohexane	1.3	500	1.0	<0.050	<0.050	<0.050	120	1.2	N/A	100,000
Dibromochloromethane	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	N/A	1,000,000
Dichlorodifluoromethane (Freon 12)	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	N/A	1,000,000
Dichlorotetrafluoroethane (Freon 14)	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	N/A	1,000,000
Ethyl Acetate	<0.050	<1.3	<0.050	28	<0.050	<0.050	<0.050	<0.050	N/A	400,000
Ethyl Benzene	<0.050	20	<0.050	<0.050	<0.050	<0.050	11	<0.050	60	20,000
Heptane	1.3	690	1.3	<0.050	<0.050	<0.050	170	1.6	N/A	400,000
Hexachlorobutadiene	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	N/A	20
Hexane	3.2	1100	3.4	<0.050	<0.050	<0.050	340	3.7	N/A	50,000
2-propanal(Isopropyl Alcohol)	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	N/A	200,000
P+M-Xylene	1.0	81	<0.050	<0.050	<0.050	<0.050	44	0.60	N/A	100,000
Methyl t-butyl ether (MTBE)	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	830	50,000
Methylene Chloride	1.3	<1.3	1.3	<0.050	<0.050	<0.050	<0.050	<0.050	170	50,000



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Naphthalene	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.6	10,000
O-Xylene	<0.050	22	<0.050	<0.050	<0.050	<0.050	14	<0.050	N/A	100,000
Propene	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	N/A	N/A
Styrene	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	230	10,000
Tetrachloroethylene	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	6	25,000
Tetrahydrofuran	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	N/A	50,000
Toluene	2.1	250	0.85	<0.050	<0.050	<0.050	90	1.2	1330	20,000
Trans-1,2-Dichloroethylene	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	N/A	200,000
Trans-1,3-Dichloropropene	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	4	1,000
Trichloroethylene	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.4	10,000
Trichloroflouromethane (FREON 11)	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	N/A	N/A
Trichlorotriflouoroethane	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	N/A	1,000,000
Vinyl Acetate	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	59	10,000
Vinyl Chloride	<0.050	<1.3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	39	1,000



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Table 41: Results of Tentatively Identified Compounds (TICs) Area Air Samples with Evacuated Canisters

Compound	Site H Days 03/15/22 (ppb)	Site I Days 03/15/22 (ppb)	Site C Days 03/15/22 (ppb)	Site H Nights 03/15/22 (ppb)	Roxanna Park Nights 03/15/22 (ppb)	Drda Drive Nights 03/15/22 (ppb)	Site I Nights 03/15/22 (ppb)	Phillipena Avenue/Henry Street Nights 03/15/22 (ppb)	EPA Dose Response Value (ppb)	ACGIH TLV 8-Hour (ppb)
1-Propanol, 2-methyl	N/A	N/A	N/A	0.70	N/A	N/A	N/A	N/A	N/A	N/A
2-Propanol, 1-chloro	N/A	N/A	N/A	2.7	N/A	N/A	N/A	N/A	N/A	200,000
2-Propenal	N/A	N/A	N/A	1.8	N/A	N/A	N/A	N/A	N/A	N/A
Butane	17	N/A	11	2.2	1.4	1.2	N/A	10	N/A	1,000,000
Butane 2,2-dimethyl	N/A	120	N/A	N/A	N/A	N/A	31	N/A	N/A	500,000
Butane, 2,3-dimethyl	2.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Butane, 2-methyl	18	N/A	13	N/A	N/A	N/A	N/A	15	N/A	N/A
C4 Hydrocarbon 1	N/A	790	N/A	1.4	N/A	N/A	270	N/A	N/A	N/A
C4 Hydrocarbon 2	N/A	1100	N/A	N/A	N/A	N/A	370	N/A	N/A	N/A
C5 Hydrocarbon 1	N/A	2200	N/A	N/A	N/A	N/A	780	N/A	N/A	N/A
C5 Hydrocarbon 2	N/A	2000	N/A	N/A	N/A	N/A	700	N/A	N/A	N/A
C5 Hydrocarbon 3	N/A	680	N/A	N/A	N/A	N/A	180	N/A	N/A	N/A
C6 Hydrocarbon 1	N/A	1900	0.95	N/A	N/A	N/A	600	0.75	N/A	N/A
C6 Hydrocarbon 2	N/A	1100	N/A	N/A	N/A	N/A	330	N/A	N/A	N/A
C6 Hydrocarbon 3	N/A	1200	N/A	N/A	N/A	N/A	350	N/A	N/A	N/A
C6 Hydrocarbon 4	N/A	140	N/A	N/A	N/A	N/A	36	N/A	N/A	N/A
C7 Hydrocarbon 1	0.80	540	0.68	N/A	N/A	N/A	40	1.5	N/A	N/A
C7 Hydrocarbon 2	0.52	1300	0.57	N/A	N/A	N/A	N/A	N/A	N/A	N/A
C7 Hydrocarbon 3	N/A	130	N/A	N/A	N/A	N/A	90	N/A	N/A	N/A
C8 Hydrocarbon 1	N/A	230	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cycloheptane	N/A	N/A	N/A	N/A	N/A	N/A	440	N/A	N/A	N/A
Cyclohexane, 1,1,3-trimethyl	N/A	31	N/A	N/A	N/A	N/A	14	N/A	N/A	100,000
Cyclohexane, 1,3-dimethyl	N/A	81	N/A	N/A	N/A	N/A	28	N/A	N/A	100,000
Cyclohexane, ethyl	N/A	42	1.4	N/A	N/A	N/A	18	N/A	N/A	100,000
Cyclohexane, Methyl-	1.7	N/A	N/A	N/A	N/A	N/A	N/A	1.5	N/A	100,000
Cyclopentane, 1,1-dimethyl-	N/A	66	N/A	N/A	N/A	N/A	20	N/A	N/A	600,000
Cyclopentane, 1,2,4-trimethyl-	N/A	68	N/A	N/A	N/A	N/A	22	N/A	N/A	600,000
Cyclopentane, dimethyl- isomer 1	N/A	160	N/A	N/A	N/A	N/A	42	N/A	N/A	600,000
Cyclopentane, dimethyl- isomer 2	N/A	180	N/A	N/A	N/A	N/A	47	N/A	N/A	600,000
Cyclopentane, Methyl	2.3	N/A	1.5	N/A	N/A	N/A	N/A	1.6	N/A	600,000
Cyclopentasiloxane, decamethyl-	1.4	N/A	N/A	3.0	0.70	N/A	N/A	N/A	N/A	N/A
Cyclotetrasiloxane, octomethyl-	8.3	N/A	N/A	3.6	1.9	N/A	N/A	0.72	N/A	N/A
Cyclotrisiloxane, hexamethyl	1.2	N/A	N/A	3.3	0.88	N/A	N/A	N/A	N/A	N/A
Ethanol	4.9	N/A	1.6	7.5	5.5	5.0	N/A	1.8	N/A	N/A
Formic Acid, Butyl ester	0.56	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5,000
Heptane, 2,4-dimethyl-	N/A	N/A	N/A	N/A	N/A	N/A	13	N/A	N/A	400,000
Heptane, 2,6-dimethyl-	N/A	31	N/A	N/A	N/A	N/A	13	N/A	N/A	400,000
Heptane, 2-methyl-	N/A	150	N/A	N/A	N/A	N/A	52	N/A	N/A	400,000
Heptane, 3-methyl	N/A	70	0.66	N/A	N/A	N/A	24	N/A	N/A	400,000
Hexane 2,5-dimethyl	N/A	41	N/A	N/A	N/A	N/A	N/A	N/A	N/A	500,000
Hexane, 2-methyl	N/A	N/A	N/A	N/A	N/A	N/A	140	0.72	N/A	500,000
Hexane, 3-methyl	1.0	650	N/A	N/A	N/A	N/A	180	0.86	15260	500,000
Methanol	N/A	N/A	N/A	12	4.3	4.0	N/A	N/A	N/A	200,000
Nonane	N/A	45	N/A	N/A	N/A	N/A	29	N/A	N/A	200,000
Octane	0.64	N/A	0.52	N/A	N/A	N/A	N/A	0.63	N/A	300,000
Pentane	12	N/A	10	0.91	0.91	N/A	N/A	N/A	N/A	1,000,000
Pentane, 2,2-dimethyl-	N/A	37	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1,000,000
Pentane, 2,3-dimethyl-	N/A	230	N/A	N/A	N/A	N/A	62	N/A	N/A	1,000,000
Pentane, 2 Methyl-	5.1	N/A	3.4	N/A	N/A	N/A	N/A	3.7	N/A	1,000,000
Pentane, 3 Methyl-	3.1	N/A	1.9	N/A	N/A	N/A	N/A	2.0	N/A	1,000,000



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Propane	1.0	49	1.7	N/A	N/A	0.63	N/A	0.77	N/A	N/A
Propane, 2 Methyl	12	N/A	9.7	N/A	N/A	N/A	N/A	9.3	N/A	N/A
Propane 2,2-dimethyl	N/A	61	N/A	N/A	N/A	N/A	19	N/A	N/A	N/A
Tert- Butyldimethylsilanol	N/A	N/A	N/A	0.63	N/A	N/A	N/A	N/A	N/A	N/A