UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Environmental Science Center
Region 3 Laboratory
701 Mapes Road
Fort Meade, Maryland 20755-5350

Final Analytical Report

Site Name.....	IVY CITY TO15
Sample Collection Date(s).....	3/23/2024 - 3/23/2024
Contact.....	Howard Schmidt
Report Date.....	05/09/2024 12:27
Project #.....	NSF 791
Work Order.....	2403008

Analyses included in this report:

VOCs by EPA TO-15, TO-15 list

Approved for Release

Region 3 Laboratory Representative

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Environmental Science Center
Region 3 Laboratory
701 Mapes Road
Fort Meade, Maryland 20755-5350

Site Name: **IVY CITY TO15** **Project #: NSF 791**

Report Narrative

VOC Air Analysis Note:
This report provides reporting units in ug/m3 and ppbv. Slight rounding errors will occur in the Electronic Data Deliverable (EDD).

2403008 Final Report NSF 791 05/09/2024

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Environmental Science Center
Region 3 Laboratory
701 Mapes Road
Fort Meade, Maryland 20755-5350

Site Name: **IVY CITY TO15** **Project #:** **NSF 791**

ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Matrix	Date Sampled Begin	Date Sampled End	Date Received
W-B-0-03232024-93	2403008-01	Air	3/23/24 08:23	03/23/2024 17:00	03/28/2024 14:40
W-R-1-03232024-88	2403008-02	Air	3/23/24 08:55	03/23/2024 16:26	03/28/2024 14:40
W-R-2-03232024-89	2403008-03	Air	3/23/24 08:58	03/23/2024 16:29	03/27/2024 13:05
W-R-3-03232024-90	2403008-04	Air	3/23/24 09:08	03/23/2024 16:35	03/28/2024 14:40
W-R-4-03232024-91	2403008-05	Air	3/23/24 09:05	03/23/2024 16:33	03/27/2024 13:05
W-R-5-03232024-92	2403008-06	Air	3/23/24 09:03	03/23/2024 16:30	03/27/2024 13:05

USEPA R3 P | **CHAI OF CUSTODY RECORD1** | **No: 03252024**

DateShipped: 3/25/2024 1
CarrierName: UPS 1
AirbillNo: 1

Site #: 000 1
Contact Name: Howard Schmidt 1
Contact Phone: 215-814-2133 1

Lab: EPA R3 Lab 1
Lab Contact: Adam Molnar 1
Lab Phone: 410-305-2676 1

Lab # P	Sample # P	Location P	Analyses P	Matrix P	Sample Date P	Start ~~Flow~~ Pressure Rate P	Start ~~Pressure~~ Flow Rate P	Stop P Pressure P	Volume P	Start_Time P	Stop_Time P
2403008 - 01	W-R-0-03232024-931	0 1	VOCs 1	Air 1	3/23/2024 1	-30	5.9	-16	-30001	0823	1700
- 02	W-R-1-03232024-881	1 1	VOCs 1	Air 1	3/23/2024 1	-30	11.8	-	-4951	0855	1626
- 03	W-R-2-03232024-891	2 1	VOCs 1	Air 1	3/23/2024 1	-	11.131	- 6	-4959	0858	1629 *
- 04	W-R-3-03232024-901	3 1	VOCs 1	Air 1	3/23/2024 1	-30	10.4	-6	-4959	0908	1635
- 05	W-R-4-03232024-911	4 1	VOCs 1	Air 1	3/23/2024 1	-30	11.7	-5.5	-35208 P	0905	1633 *
- 06	W-R-5-03232024-921	5 P	VOCs 1	Air 1	3/23/2024 1	-30	11.51	-7.0	-4761	0903	1630 *

SF 4-2-24

Special Instructions: six samples delivered via UPS 1
* Samples split up and arrived seperately by UPS. P SF 4/2/24

SAMPLES TRANSFERRED FROM P
CHAI OF BUSTODY # P

Items/Reason 1	Relinquished by (Signature and Organization)	Date/Time 1	Received by (Signature and Organization) 1	Date/Time 1	Sample Condition Upon Receipt 1
6/TO15		3/25/2024 12:15 PM	EPA	3-28-24 2:40 pm	intact
			* Sarah Florido EPA R3	3-27-24 1:05 pm1	ok. SF 4/2/24
				SF 4/4/241	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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701 Mapes Road
Fort Meade, Maryland 20755-5350

Site Name: IVY CITY TO15 **Project #:** NSF 791

Station ID: W-B-0-03232024-93 **Lab ID:** 2403008-01

Sample Matrix: Air **Date Collected:** 03/23/2024

Volatile Organic Compounds
Targets

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flags Qualifiers	Dilution	Analyzed	Method/SOP#
Acetone	**2.9**	**1.2**	0.5		1	04/04/2024 02:05	TO-15/R3QA230
Acrolein	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
Benzene	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
Benzyl chloride	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
Bromodichloromethane	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
Bromoform	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
Bromomethane	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
1,3-Butadiene	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
2-Butanone	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
Carbon disulfide	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
Carbon Tetrachloride	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
Chlorobenzene	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
Chloroethane	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
Chloroform	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
Chloromethane	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
Cyclohexane	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
Dibromochloromethane	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
1,2-Dichlorobenzene	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
1,3-Dichlorobenzene	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
1,4-Dichlorobenzene	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
Dichlorodifluoromethane	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
1,1-Dichloroethane	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
1,2-Dichloroethane	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
1,1-Dichloroethene	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
cis-1,2-Dichloroethene	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
trans-1,2-Dichloroethene	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
1,2-Dichloropropane	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
cis-1,3-Dichloropropene	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
trans-1,3-Dichloropropene	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
Dichlorotetrafluoroethane	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
1,4-Dioxane	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
Ethanol	**5.6**	**3.0**	0.5		1	04/04/2024 02:05	TO-15/R3QA230
Ethyl Acetate	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
Ethylbenzene	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
4-Ethyltoluene	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
Freon 113	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
Heptane	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230

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Site Name: IVY CITY TO15 **Project #:** NSF 791

Station ID: W-B-0-03232024-93 **Lab ID:** 2403008-01

Sample Matrix: Air **Date Collected:** 03/23/2024

Volatile Organic Compounds
Targets (Continued)

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flags Qualifiers	Dilution	Analyzed	Method/SOP#
Hexachlorobutadiene	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
Hexane	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
2-Hexanone	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
Isopropyl alcohol	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
Methyl Methacrylate	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
Methyl tert-Butyl Ether	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
4-Methyl-2-pentanone	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
Methylene Chloride	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
Naphthalene	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
Propylene	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
Styrene	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
Tetrachloroethene	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
Tetrahydrofuran	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
Toluene	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
1,1,1-Trichloroethane	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
1,1,2-Trichloroethane	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
Trichloroethene	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
Trichlorofluoromethane	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
Vinyl acetate	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
Vinyl chloride	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230
m,p-Xylene	U	U	1.0		1	04/04/2024 02:05	TO-15/R3QA230
o-Xylene	U	U	0.5		1	04/04/2024 02:05	TO-15/R3QA230

Surrogates

Analyte	Result ppbv	Flags Qualifiers	**%Recovery**	%Recovery Limits	Prepared	Analyzed	Method/SOP#
Surrogate: 4-Bromofluorobenzene	9.93		**99 %**	*80-120*	04/03/2024 15:00	04/04/2024 02:05	*TO-15/R3QA230*

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Environmental Science Center
Region 3 Laboratory
701 Mapes Road
Fort Meade, Maryland 20755-5350

Site Name: IVY CITY TO15 **Project #:** NSF 791

Station ID: W-R-1-03232024-88 **Lab ID:** 2403008-02

Sample Matrix: Air **Date Collected:** 03/23/2024

Volatile Organic Compounds
Targets

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flags Qualifiers	Dilution	Analyzed	Method/SOP#
Acetone	**5.2**	**2.2**	0.5		1	04/04/2024 02:57	TO-15/R3QA230
Acrolein	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
Benzene	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
Benzyl chloride	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
Bromodichloromethane	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
Bromoform	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
Bromomethane	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
1,3-Butadiene	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
2-Butanone	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
Carbon disulfide	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
Carbon Tetrachloride	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
Chlorobenzene	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
Chloroethane	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
Chloroform	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
Chloromethane	**1.1**	**0.5**	0.5		1	04/04/2024 02:57	TO-15/R3QA230
Cyclohexane	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
Dibromochloromethane	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
1,2-Dichlorobenzene	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
1,3-Dichlorobenzene	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
1,4-Dichlorobenzene	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
Dichlorodifluoromethane	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
1,1-Dichloroethane	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
1,2-Dichloroethane	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
1,1-Dichloroethene	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
cis-1,2-Dichloroethene	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
trans-1,2-Dichloroethene	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
1,2-Dichloropropane	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
cis-1,3-Dichloropropene	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
trans-1,3-Dichloropropene	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
Dichlorotetrafluoroethane	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
1,4-Dioxane	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
Ethanol	**8.6**	**4.5**	0.5		1	04/04/2024 02:57	TO-15/R3QA230
Ethyl Acetate	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
Ethylbenzene	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
4-Ethyltoluene	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
Freon 113	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
Heptane	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230

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701 Mapes Road
Fort Meade, Maryland 20755-5350

Site Name: IVY CITY TO15 **Project #:** NSF 791

Station ID: W-R-1-03232024-88 **Lab ID:** 2403008-02

Sample Matrix: Air **Date Collected:** 03/23/2024

Volatile Organic Compounds
Targets (Continued)

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flags Qualifiers	Dilution	Analyzed	Method/SOP#
Hexachlorobutadiene	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
Hexane	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
2-Hexanone	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
Isopropyl alcohol	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
Methyl Methacrylate	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
Methyl tert-Butyl Ether	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
4-Methyl-2-pentanone	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
Methylene Chloride	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
Naphthalene	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
Propylene	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
Styrene	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
Tetrachloroethene	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
Tetrahydrofuran	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
Toluene	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
1,1,1-Trichloroethane	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
1,1,2-Trichloroethane	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
Trichloroethene	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
Trichlorofluoromethane	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
Vinyl acetate	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
Vinyl chloride	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230
m,p-Xylene	U	U	1.0		1	04/04/2024 02:57	TO-15/R3QA230
o-Xylene	U	U	0.5		1	04/04/2024 02:57	TO-15/R3QA230

Surrogates

Analyte	Result ppbv	Flags Qualifiers	**%Recovery**	%Recovery Limits	Prepared	Analyzed	Method/SOP#
Surrogate: 4-Bromofluorobenzene	9.95		**100 %**	*80-120*	04/03/2024 15:00	04/04/2024 02:57	*TO-15/R3QA230*

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Environmental Science Center
Region 3 Laboratory
701 Mapes Road
Fort Meade, Maryland 20755-5350

Site Name: IVY CITY TO15 **Project #:** NSF 791

Station ID: W-R-2-03232024-89 **Lab ID:** 2403008-03

Sample Matrix: Air **Date Collected:** 03/23/2024

Volatile Organic Compounds
Targets

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flags Qualifiers	Dilution	Analyzed	Method/SOP#
Acetone	**3.4**	**1.4**	0.5		1	04/04/2024 03:48	TO-15/R3QA230
Acrolein	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
Benzene	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
Benzyl chloride	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
Bromodichloromethane	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
Bromoform	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
Bromomethane	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
1,3-Butadiene	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
2-Butanone	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
Carbon disulfide	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
Carbon Tetrachloride	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
Chlorobenzene	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
Chloroethane	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
Chloroform	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
Chloromethane	**1.1**	**0.5**	0.5		1	04/04/2024 03:48	TO-15/R3QA230
Cyclohexane	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
Dibromochloromethane	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
1,2-Dichlorobenzene	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
1,3-Dichlorobenzene	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
1,4-Dichlorobenzene	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
Dichlorodifluoromethane	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
1,1-Dichloroethane	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
1,2-Dichloroethane	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
1,1-Dichloroethene	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
cis-1,2-Dichloroethene	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
trans-1,2-Dichloroethene	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
1,2-Dichloropropane	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
cis-1,3-Dichloropropene	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
trans-1,3-Dichloropropene	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
Dichlorotetrafluoroethane	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
1,4-Dioxane	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
Ethanol	**7.8**	**4.1**	0.5		1	04/04/2024 03:48	TO-15/R3QA230
Ethyl Acetate	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
Ethylbenzene	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
4-Ethyltoluene	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
Freon 113	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
Heptane	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Environmental Science Center
Region 3 Laboratory
701 Mapes Road
Fort Meade, Maryland 20755-5350

Site Name: IVY CITY TO15 **Project #:** NSF 791

Station ID: W-R-2-03232024-89 **Lab ID:** 2403008-03

Sample Matrix: Air **Date Collected:** 03/23/2024

Volatile Organic Compounds
Targets (Continued)

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flags Qualifiers	Dilution	Analyzed	Method/SOP#
Hexachlorobutadiene	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
Hexane	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
2-Hexanone	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
Isopropyl alcohol	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
Methyl Methacrylate	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
Methyl tert-Butyl Ether	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
4-Methyl-2-pentanone	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
Methylene Chloride	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
Naphthalene	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
Propylene	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
Styrene	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
Tetrachloroethene	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
Tetrahydrofuran	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
Toluene	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
1,1,1-Trichloroethane	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
1,1,2-Trichloroethane	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
Trichloroethene	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
Trichlorofluoromethane	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
Vinyl acetate	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
Vinyl chloride	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230
m,p-Xylene	U	U	1.0		1	04/04/2024 03:48	TO-15/R3QA230
o-Xylene	U	U	0.5		1	04/04/2024 03:48	TO-15/R3QA230

Surrogates

Analyte	Result ppbv	Flags Qualifiers	**%Recovery**	%Recovery Limits	Prepared	Analyzed	Method/SOP#
Surrogate: 4-Bromofluorobenzene	9.91		**99 %**	*80-120*	04/03/2024 15:00	04/04/2024 03:48	*TO-15/R3QA230*

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Environmental Science Center
Region 3 Laboratory
701 Mapes Road
Fort Meade, Maryland 20755-5350

Site Name: IVY CITY TO15 **Project #:** NSF 791

Station ID: W-R-3-03232024-90 **Lab ID:** 2403008-04

Sample Matrix: Air **Date Collected:** 03/23/2024

Volatile Organic Compounds
Targets

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flags Qualifiers	Dilution	Analyzed	Method/SOP#
Acetone	**4.6**	**1.9**	0.5		1	04/04/2024 04:39	TO-15/R3QA230
Acrolein	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
Benzene	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
Benzyl chloride	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
Bromodichloromethane	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
Bromoform	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
Bromomethane	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
1,3-Butadiene	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
2-Butanone	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
Carbon disulfide	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
Carbon Tetrachloride	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
Chlorobenzene	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
Chloroethane	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
Chloroform	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
Chloromethane	**1.1**	**0.5**	0.5		1	04/04/2024 04:39	TO-15/R3QA230
Cyclohexane	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
Dibromochloromethane	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
1,2-Dichlorobenzene	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
1,3-Dichlorobenzene	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
1,4-Dichlorobenzene	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
Dichlorodifluoromethane	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
1,1-Dichloroethane	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
1,2-Dichloroethane	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
1,1-Dichloroethene	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
cis-1,2-Dichloroethene	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
trans-1,2-Dichloroethene	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
1,2-Dichloropropane	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
cis-1,3-Dichloropropene	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
trans-1,3-Dichloropropene	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
Dichlorotetrafluoroethane	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
1,4-Dioxane	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
Ethanol	**9.4**	**5.0**	0.5		1	04/04/2024 04:39	TO-15/R3QA230
Ethyl Acetate	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
Ethylbenzene	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
4-Ethyltoluene	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
Freon 113	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
Heptane	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Environmental Science Center
Region 3 Laboratory
701 Mapes Road
Fort Meade, Maryland 20755-5350

Site Name: IVY CITY TO15 **Project #:** NSF 791

Station ID: W-R-3-03232024-90 **Lab ID:** 2403008-04

Sample Matrix: Air **Date Collected:** 03/23/2024

Volatile Organic Compounds
Targets (Continued)

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flags Qualifiers	Dilution	Analyzed	Method/SOP#
Hexachlorobutadiene	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
Hexane	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
2-Hexanone	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
Isopropyl alcohol	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
Methyl Methacrylate	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
Methyl tert-Butyl Ether	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
4-Methyl-2-pentanone	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
Methylene Chloride	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
Naphthalene	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
Propylene	**1.0**	**0.6**	0.5		1	04/04/2024 04:39	TO-15/R3QA230
Styrene	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
Tetrachloroethene	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
Tetrahydrofuran	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
Toluene	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
1,1,1-Trichloroethane	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
1,1,2-Trichloroethane	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
Trichloroethene	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
Trichlorofluoromethane	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
Vinyl acetate	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
Vinyl chloride	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230
m,p-Xylene	U	U	1.0		1	04/04/2024 04:39	TO-15/R3QA230
o-Xylene	U	U	0.5		1	04/04/2024 04:39	TO-15/R3QA230

Surrogates

Analyte	Result ppbv	Flags Qualifiers	**%Recovery**	%Recovery Limits	Prepared	Analyzed	Method/SOP#
Surrogate: 4-Bromofluorobenzene	9.93		**99 %**	*80-120*	04/03/2024 15:00	04/04/2024 04:39	*TO-15/R3QA230*

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Environmental Science Center
Region 3 Laboratory
701 Mapes Road
Fort Meade, Maryland 20755-5350

Site Name: IVY CITY TO15 **Project #:** NSF 791

Station ID: W-R-4-03232024-91 **Lab ID:** 2403008-05

Sample Matrix: Air **Date Collected:** 03/23/2024

Volatile Organic Compounds
Targets

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flags Qualifiers	Dilution	Analyzed	Method/SOP#
Acetone	**3.4**	**1.4**	0.5		1	04/04/2024 05:30	TO-15/R3QA230
Acrolein	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
Benzene	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
Benzyl chloride	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
Bromodichloromethane	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
Bromoform	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
Bromomethane	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
1,3-Butadiene	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
2-Butanone	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
Carbon disulfide	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
Carbon Tetrachloride	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
Chlorobenzene	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
Chloroethane	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
Chloroform	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
Chloromethane	**1.1**	**0.5**	0.5		1	04/04/2024 05:30	TO-15/R3QA230
Cyclohexane	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
Dibromochloromethane	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
1,2-Dichlorobenzene	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
1,3-Dichlorobenzene	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
1,4-Dichlorobenzene	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
Dichlorodifluoromethane	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
1,1-Dichloroethane	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
1,2-Dichloroethane	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
1,1-Dichloroethene	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
cis-1,2-Dichloroethene	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
trans-1,2-Dichloroethene	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
1,2-Dichloropropane	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
cis-1,3-Dichloropropene	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
trans-1,3-Dichloropropene	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
Dichlorotetrafluoroethane	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
1,4-Dioxane	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
Ethanol	**9.4**	**4.9**	0.5		1	04/04/2024 05:30	TO-15/R3QA230
Ethyl Acetate	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
Ethylbenzene	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
4-Ethyltoluene	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
Freon 113	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
Heptane	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Environmental Science Center
Region 3 Laboratory
701 Mapes Road
Fort Meade, Maryland 20755-5350

Site Name: IVY CITY TO15 **Project #:** NSF 791

Station ID: W-R-4-03232024-91 **Lab ID:** 2403008-05

Sample Matrix: Air **Date Collected:** 03/23/2024

Volatile Organic Compounds
Targets (Continued)

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flags Qualifiers	Dilution	Analyzed	Method/SOP#
Hexachlorobutadiene	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
Hexane	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
2-Hexanone	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
Isopropyl alcohol	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
Methyl Methacrylate	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
Methyl tert-Butyl Ether	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
4-Methyl-2-pentanone	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
Methylene Chloride	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
Naphthalene	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
Propylene	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
Styrene	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
Tetrachloroethene	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
Tetrahydrofuran	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
Toluene	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
1,1,1-Trichloroethane	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
1,1,2-Trichloroethane	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
Trichloroethene	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
Trichlorofluoromethane	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
Vinyl acetate	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
Vinyl chloride	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230
m,p-Xylene	U	U	1.0		1	04/04/2024 05:30	TO-15/R3QA230
o-Xylene	U	U	0.5		1	04/04/2024 05:30	TO-15/R3QA230

Surrogates

Analyte	Result ppbv	Flags Qualifiers	**%Recovery**	%Recovery Limits	Prepared	Analyzed	Method/SOP#
Surrogate: 4-Bromofluorobenzene	9.89		**99 %**	*80-120*	04/03/2024 15:00	04/04/2024 05:30	*TO-15/R3QA230*

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Environmental Science Center
Region 3 Laboratory
701 Mapes Road
Fort Meade, Maryland 20755-5350

Site Name: IVY CITY TO15 **Project #:** NSF 791

Station ID: W-R-5-03232024-92 **Lab ID:** 2403008-06

Sample Matrix: Air **Date Collected:** 03/23/2024

Volatile Organic Compounds
Targets

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flags Qualifiers	Dilution	Analyzed	Method/SOP#
Acetone	**3.0**	**1.3**	0.5		1	04/04/2024 06:21	TO-15/R3QA230
Acrolein	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
Benzene	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
Benzyl chloride	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
Bromodichloromethane	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
Bromoform	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
Bromomethane	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
1,3-Butadiene	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
2-Butanone	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
Carbon disulfide	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
Carbon Tetrachloride	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
Chlorobenzene	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
Chloroethane	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
Chloroform	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
Chloromethane	**1.1**	**0.5**	0.5		1	04/04/2024 06:21	TO-15/R3QA230
Cyclohexane	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
Dibromochloromethane	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
1,2-Dichlorobenzene	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
1,3-Dichlorobenzene	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
1,4-Dichlorobenzene	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
Dichlorodifluoromethane	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
1,1-Dichloroethane	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
1,2-Dichloroethane	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
1,1-Dichloroethene	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
cis-1,2-Dichloroethene	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
trans-1,2-Dichloroethene	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
1,2-Dichloropropane	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
cis-1,3-Dichloropropene	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
trans-1,3-Dichloropropene	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
Dichlorotetrafluoroethane	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
1,4-Dioxane	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
Ethanol	**9.4**	**4.9**	0.5		1	04/04/2024 06:21	TO-15/R3QA230
Ethyl Acetate	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
Ethylbenzene	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
4-Ethyltoluene	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
Freon 113	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
Heptane	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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701 Mapes Road
Fort Meade, Maryland 20755-5350

Site Name: IVY CITY TO15 **Project #:** NSF 791

Station ID: W-R-5-03232024-92 **Lab ID:** 2403008-06

Sample Matrix: Air **Date Collected:** 03/23/2024

Volatile Organic Compounds
Targets (Continued)

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flags Qualifiers	Dilution	Analyzed	Method/SOP#
Hexachlorobutadiene	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
Hexane	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
2-Hexanone	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
Isopropyl alcohol	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
Methyl Methacrylate	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
Methyl tert-Butyl Ether	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
4-Methyl-2-pentanone	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
Methylene Chloride	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
Naphthalene	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
Propylene	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
Styrene	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
Tetrachloroethene	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
Tetrahydrofuran	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
Toluene	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
1,1,1-Trichloroethane	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
1,1,2-Trichloroethane	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
Trichloroethene	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
Trichlorofluoromethane	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
Vinyl acetate	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
Vinyl chloride	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230
m,p-Xylene	U	U	1.0		1	04/04/2024 06:21	TO-15/R3QA230
o-Xylene	U	U	0.5		1	04/04/2024 06:21	TO-15/R3QA230

Surrogates

Analyte	Result ppbv	Flags Qualifiers	**%Recovery**	%Recovery Limits	Prepared	Analyzed	Method/SOP#
Surrogate: 4-Bromofluorobenzene	9.89		**99 %**	*80-120*	04/03/2024 15:00	04/04/2024 06:21	*TO-15/R3QA230*

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Site Name: **IVY CITY TO15** **Project #: NSF 791**

Tentatively Identified Compound (TIC) Report

Volatile Organic Compounds

CAS Number	Compound	Result ppbv	Analyte Qualifiers	Retention Time	Analyzed	Method/SOP#
Lab ID:	2403008-01					
Station ID:	W-B-0-03232024-93					
Sample Matrix:	Air					
Collected:	03/23/2024					
NA	None Detected	0.0			04/04/2024 02:05	TO-15/R3QA230

Volatile Organic Compounds

CAS Number	Compound	Result ppbv	Analyte Qualifiers	Retention Time	Analyzed	Method/SOP#
Lab ID:	2403008-02					
Station ID:	W-R-1-03232024-88					
Sample Matrix:	Air					
Collected:	03/23/2024					
NA	None Detected	0.0			04/04/2024 02:57	TO-15/R3QA230

Volatile Organic Compounds

CAS Number	Compound	Result ppbv	Analyte Qualifiers	Retention Time	Analyzed	Method/SOP#
Lab ID:	2403008-03					
Station ID:	W-R-2-03232024-89					
Sample Matrix:	Air					
Collected:	03/23/2024					
NA	None Detected	0.0			04/04/2024 03:48	TO-15/R3QA230

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Site Name: **IVY CITY TO15** **Project #: NSF 791**

Tentatively Identified Compound (TIC) Report

Volatile Organic Compounds

CAS Number	Compound	Result ppbv	Analyte Qualifiers	Retention Time	Analyzed	Method/SOP#
Lab ID:	2403008-04					
Station ID:	W-R-3-03232024-90					
Sample Matrix:	Air					
Collected:	03/23/2024					
NA	None Detected	0.0			04/04/2024 04:39	TO-15/R3QA230

Volatile Organic Compounds

CAS Number	Compound	Result ppbv	Analyte Qualifiers	Retention Time	Analyzed	Method/SOP#
Lab ID:	2403008-05					
Station ID:	W-R-4-03232024-91					
Sample Matrix:	Air					
Collected:	03/23/2024					
NA	None Detected	0.0			04/04/2024 05:30	TO-15/R3QA230

Volatile Organic Compounds

CAS Number	Compound	Result ppbv	Analyte Qualifiers	Retention Time	Analyzed	Method/SOP#
Lab ID:	2403008-06					
Station ID:	W-R-5-03232024-92					
Sample Matrix:	Air					
Collected:	03/23/2024					
NA	None Detected	0.0			04/04/2024 06:21	TO-15/R3QA230

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Site Name: **IVY CITY TO15** **Project #:** **NSF 791**

QC Data
Volatile Organic Compounds

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch BD40402 - TO-15 Air

Blank (BD40402-BLK1) Prepared: 04/03/2024 15:00 Analyzed: 04/03/2024 23:09

Acetone	U	0.5	ppbv
Acrolein	U	0.5	"
Benzene	U	0.5	"
Benzyl chloride	U	0.5	"
Bromodichloromethane	U	0.5	"
Bromoform	U	0.5	"
Bromomethane	U	0.5	"
1,3-Butadiene	U	0.5	"
2-Butanone	U	0.5	"
Carbon disulfide	U	0.5	"
Carbon Tetrachloride	U	0.5	"
Chlorobenzene	U	0.5	"
Chloroethane	U	0.5	"
Chloroform	U	0.5	"
Chloromethane	U	0.5	"
Cyclohexane	U	0.5	"
Dibromochloromethane	U	0.5	"
1,2-Dibromoethane (EDB)	U	0.5	"
1,2-Dichlorobenzene	U	0.5	"
1,3-Dichlorobenzene	U	0.5	"
1,4-Dichlorobenzene	U	0.5	"
Dichlorodifluoromethane	U	0.5	"
1,1-Dichloroethane	U	0.5	"
1,2-Dichloroethane	U	0.5	"
1,1-Dichloroethene	U	0.5	"
cis-1,2-Dichloroethene	U	0.5	"
trans-1,2-Dichloroethene	U	0.5	"
1,2-Dichloropropane	U	0.5	"
cis-1,3-Dichloropropene	U	0.5	"
trans-1,3-Dichloropropene	U	0.5	"
Dichlorotetrafluoroethane	U	0.5	"
1,4-Dioxane	U	0.5	"
Ethanol	U	0.5	"
Ethyl Acetate	U	0.5	"
Ethylbenzene	U	0.5	"
4-Ethyltoluene	U	0.5	"
Freon 113	U	0.5	"
Heptane	U	0.5	"
Hexachlorobutadiene	U	0.5	"
Hexane	U	0.5	"
2-Hexanone	U	0.5	"

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Site Name: **IVY CITY TO15** **Project #:** **NSF 791**

QC Data
Volatile Organic Compounds

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BD40402 - TO-15 Air										
Blank (BD40402-BLK1)				Prepared: 04/03/2024 15:00			Analyzed: 04/03/2024 23:09			
Isopropyl alcohol	U	0.5	ppbv							
Methyl Methacrylate	U	0.5	"							
Methyl tert-Butyl Ether	U	0.5	"							
4-Methyl-2-pentanone	U	0.5	"							
Methylene Chloride	U	0.5	"							
Naphthalene	U	0.5	"							
Propylene	U	0.5	"							
Styrene	U	0.5	"							
1,1,2,2-Tetrachloroethane	U	0.5	"							
Tetrachloroethene	U	0.5	"							
Tetrahydrofuran	U	0.5	"							
Toluene	U	0.5	"							
1,2,4-Trichlorobenzene	U	0.5	"							
1,1,1-Trichloroethane	U	0.5	"							
1,1,2-Trichloroethane	U	0.5	"							
Trichloroethene	U	0.5	"							
Trichlorofluoromethane	U	0.5	"							
1,2,4-Trimethylbenzene	U	0.5	"							
1,3,5-Trimethylbenzene	U	0.5	"							
Vinyl acetate	U	0.5	"							
Vinyl chloride	U	0.5	"							
m,p-Xylene	U	1.0	"							
o-Xylene	U	0.5	"							
Surrogate: 4-Bromofluorobenzene	*9.90*		*"*	*10.000*		*99*	*80-120*			
LCS (BD40402-BS1)				Prepared: 04/03/2024 15:00			Analyzed: 04/03/2024 20:40			
Acetone	5.13000	0.5	ppbv	5.0000		103	70-130			
Acrolein	4.95000	0.5	"	5.0000		99	70-130			
Benzene	5.14000	0.5	"	5.0000		103	70-130			
Benzyl chloride	5.31000	0.5	"	5.0000		106	70-130			
Bromodichloromethane	5.34000	0.5	"	5.0000		107	70-130			
Bromoform	6.39000	0.5	"	5.0000		128	70-130			
Bromomethane	5.10000	0.5	"	5.0000		102	70-130			
1,3-Butadiene	5.00000	0.5	"	5.0000		100	70-130			
2-Butanone	5.16000	0.5	"	5.0000		103	70-130			
Carbon disulfide	5.09000	0.5	"	5.0000		102	70-130			
Carbon Tetrachloride	5.18000	0.5	"	5.0000		104	70-130			
Chlorobenzene	5.66000	0.5	"	5.0000		113	70-130			
Chloroethane	5.03000	0.5	"	5.0000		101	70-130			
Chloroform	5.07000	0.5	"	5.0000		101	70-130			
Chloromethane	5.04000	0.5	"	5.0000		101	70-130			

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Site Name: **IVY CITY TO15** **Project #:** **NSF 791**

QC Data
Volatile Organic Compounds

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BD40402 - TO-15 Air										
LCS (BD40402-BS1)				Prepared: 04/03/2024 15:00		Analyzed: 04/03/2024 20:40				
Cyclohexane	5.08000	0.5	ppbv	5.0000		102	70-130			
Dibromochloromethane	5.84000	0.5	"	5.0000		117	70-130			
1,2-Dibromoethane (EDB)	5.73000	0.5	"	5.0000		115	70-130			
1,2-Dichlorobenzene	4.80000	0.5	"	5.0000		96	70-130			
1,3-Dichlorobenzene	5.09000	0.5	"	5.0000		102	70-130			
1,4-Dichlorobenzene	5.07000	0.5	"	5.0000		101	70-130			
Dichlorodifluoromethane	5.00000	0.5	"	5.0000		100	70-130			
1,1-Dichloroethane	5.06000	0.5	"	5.0000		101	70-130			
1,2-Dichloroethane	5.12000	0.5	"	5.0000		102	70-130			
1,1-Dichloroethene	5.05000	0.5	"	5.0000		101	70-130			
cis-1,2-Dichloroethene	4.87000	0.5	"	5.0000		97	70-130			
trans-1,2-Dichloroethene	5.01000	0.5	"	5.0000		100	70-130			
1,2-Dichloropropane	5.12000	0.5	"	5.0000		102	70-130			
cis-1,3-Dichloropropene	5.28000	0.5	"	5.0000		106	70-130			
trans-1,3-Dichloropropene	5.50000	0.5	"	5.0000		110	70-130			
Dichlorotetrafluoroethane	5.12000	0.5	"	5.0000		102	70-130			
1,4-Dioxane	5.68000	0.5	"	5.0000		114	70-130			
Ethanol	5.42000	0.5	"	5.0000		108	70-130			
Ethyl Acetate	5.39000	0.5	"	5.0000		108	70-130			
Ethylbenzene	5.54000	0.5	"	5.0000		111	70-130			
4-Ethyltoluene	5.43000	0.5	"	5.0000		109	70-130			
Freon 113	5.10000	0.5	"	5.0000		102	70-130			
Heptane	5.04000	0.5	"	5.0000		101	70-130			
Hexachlorobutadiene	4.43000	0.5	"	5.0000		89	70-130			
Hexane	5.00000	0.5	"	5.0000		100	70-130			
2-Hexanone	5.60000	0.5	"	5.0000		112	70-130			
Isopropyl alcohol	5.73000	0.5	"	5.0000		115	70-130			
Methyl Methacrylate	5.24000	0.5	"	5.0000		105	70-130			
Methyl tert-Butyl Ether	5.05000	0.5	"	5.0000		101	70-130			
4-Methyl-2-pentanone	5.21000	0.5	"	5.0000		104	70-130			
Methylene Chloride	5.11000	0.5	"	5.0000		102	70-130			
Naphthalene	4.63000	0.5	"	5.0000		93	70-130			
Propylene	4.88000	0.5	"	5.0000		98	70-130			
Styrene	5.76000	0.5	"	5.0000		115	70-130			
1,1,2,2-Tetrachloroethane	5.72000	0.5	"	5.0000		114	70-130			
Tetrachloroethene	5.43000	0.5	"	5.0000		109	70-130			
Tetrahydrofuran	5.30000	0.5	"	5.0000		106	70-130			
Toluene	5.36000	0.5	"	5.0000		107	70-130			
1,2,4-Trichlorobenzene	4.64000	0.5	"	5.0000		93	70-130			
1,1,1-Trichloroethane	5.09000	0.5	"	5.0000		102	70-130			
1,1,2-Trichloroethane	5.55000	0.5	"	5.0000		111	70-130			

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Site Name: **IVY CITY TO15** **Project #:** **NSF 791**

QC Data
Volatile Organic Compounds

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BD40402 - TO-15 Air										
LCS (BD40402-BS1)				Prepared: 04/03/2024 15:00			Analyzed: 04/03/2024 20:40			
Trichloroethene	5.23000	0.5	ppbv	5.0000		105	70-130			
Trichlorofluoromethane	5.02000	0.5	"	5.0000		100	70-130			
1,2,4-Trimethylbenzene	4.99000	0.5	"	5.0000		100	70-130			
1,3,5-Trimethylbenzene	4.95000	0.5	"	5.0000		99	70-130			
Vinyl acetate	4.75000	0.5	"	5.0000		95	70-130			
Vinyl chloride	5.11000	0.5	"	5.0000		102	70-130			
m,p-Xylene	11.0800	1.0	"	10.000		111	70-130			
o-Xylene	5.56000	0.5	"	5.0000		111	70-130			
Surrogate: 4-Bromofluorobenzene	*10.0*		*"*	*10.000*		*100*	*80-120*			

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Site Name: **IVY CITY TO15** **Project #:** **NSF 791**

Notes and Definitions

Results apply only to the samples tested as received.

%REC	Percent Recovery
RPD	Relative Percent Difference
U	Analyte included in the analysis, but not detected at or above the quantitation limit.
NR	Not Reported

Quantitation Limit: The lowest concentration of an analyte that can be reliably measured within specified limits of precision and accuracy for a specific laboratory analytical method and that takes into account analytical adjustments made during sample preparation and analysis.

SOLID SAMPLE RESULTS - REPORTING PROTOCOL: Solid samples where % Solids (percent dry wt at 105 degrees C) has been performed, are analyzed wet and converted to a dry weight result for reporting purposes. This is routine for organics and most inorganic analyses. When metals and mercury analyses are requested, solid samples are routinely analyzed and reported on a dry weight basis. Solid samples for metals/mercury are prepared for analysis by an initial drying at 60 degree C and homogenization before digestion. Oil-type samples will be analyzed and reported on a wet weight basis for all analyses because of the nature of the sample. Any exceptions to the protocol will be noted with a qualifier