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).....	12/23/2023 - 12/23/2023
Contact.....	Howard Schmidt
Report Date.....	02/07/2024 17:44
Project #.....	NSF 791
Work Order.....	2401002

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).

Acrolein is not present in the second source standard. Acrolein is reported as "UJ" in all samples.

2401002 Final Report NSF 791 02/07/2024

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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-R-0-12232023-55	2401002-01	Air	12/23/23 08:26	12/23/2023 16:06	01/02/2024 13:05
W-R-1-12232023-50	2401002-02	Air	12/23/23 07:38	12/23/2023 15:17	01/02/2024 13:05
W-R-2-12232023-51	2401002-03	Air	12/23/23 07:42	12/23/2023 15:20	01/02/2024 13:05
W-R-3-12232023-52	2401002-04	Air	12/23/23 07:52	12/23/2023 15:32	01/02/2024 13:05
W-R-4-12232023-53	2401002-05	Air	12/23/23 07:57	12/23/2023 15:28	01/02/2024 13:05
W-R-5-12232023-54	2401002-06	Air	12/23/23 07:49	12/23/2023 15:24	01/02/2024 13:05

USEPA R3
DateShipped: 12/26/2023
CarrierName: UPS
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: 000
Contact Name: Howard Schmidt
Contact Phone: 215-814-2133

No: 12262023
Lab: EPA R3 Lab
Lab Contact: Adam Molnar
Lab Phone: 410-305-2676

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Start Flow Rate	Start Pressure	Stop Pressure	Volume	Start_Time	Stop_Time
-01	W-R-0-12232023-55	0	VOCs	Air	12/23/2023	-10.7	-30	0	-4922	8:26:00 AM	4:06:00 PM
-02	W-R-1-12232023-50	1	VOCs	Air	12/23/2023	-12.4	-29.5	-4	-5668.65	7:38:00 AM	3:17:00 PM
-03	W-R-2-12232023-51	2	VOCs	Air	12/23/2023	-11.5	-30	0	-5267	7:42:00 AM	3:20:00 PM
-04	W-R-3-12232023-52	3	VOCs	Air	12/23/2023	-11.4	-29	0	-5244	7:52:00 AM	3:32:00 PM
-05	W-R-4-12232023-53	4	VOCs	Air	12/23/2023	-10.8	-29	0	-4870.8	7:57:00 AM	3:28:00 PM
-06	W-R-5-12232023-54	5	VOCs	Air	12/23/2023	-10.7	-30	0	-4868.5	7:49:00 AM	3:24:00 PM

Special Instructions: shipped via UPS, five samples ambient and arrived with vacuum >-30" as measured in field

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
AU/TO-15		12-26-23 1100		1-2-24/1305	all samples intact

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

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

Station ID: W-R-0-12232023-55 **Lab ID:** 2401002-01

Sample Matrix: Air **Date Collected:** 12/23/2023

Volatile Organic Compounds
Targets

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flags Qualifiers	Dilution	Analyzed	Method/SOP#
Acetone	**5.8**	**2.4**	0.5		1	01/02/2024 14:15	TO-15/R3QA230
Acrolein	U	U	0.5	UJ	1	01/02/2024 14:15	TO-15/R3QA230
Benzene	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
Benzyl chloride	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
Bromodichloromethane	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
Bromoform	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
Bromomethane	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
1,3-Butadiene	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
2-Butanone	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
Carbon disulfide	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
Carbon Tetrachloride	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
Chlorobenzene	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
Chloroethane	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
Chloroform	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
Chloromethane	**1.1**	**0.5**	0.5		1	01/02/2024 14:15	TO-15/R3QA230
Cyclohexane	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
Dibromochloromethane	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
1,2-Dichlorobenzene	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
1,3-Dichlorobenzene	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
1,4-Dichlorobenzene	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
Dichlorodifluoromethane	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
1,1-Dichloroethane	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
1,2-Dichloroethane	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
1,1-Dichloroethene	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
cis-1,2-Dichloroethene	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
trans-1,2-Dichloroethene	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
1,2-Dichloropropane	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
cis-1,3-Dichloropropene	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
trans-1,3-Dichloropropene	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
Dichlorotetrafluoroethane	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
1,4-Dioxane	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
Ethanol	**18.3**	**9.6**	0.5		1	01/02/2024 14:15	TO-15/R3QA230
Ethyl Acetate	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
Ethylbenzene	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
4-Ethyltoluene	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230

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

Station ID: W-R-0-12232023-55 **Lab ID:** 2401002-01

Sample Matrix: Air **Date Collected:** 12/23/2023

Volatile Organic Compounds
Targets (Continued)

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flags Qualifiers	Dilution	Analyzed	Method/SOP#
Freon 113	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
Heptane	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
Hexachlorobutadiene	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
Hexane	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
2-Hexanone	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
Isopropyl alcohol	**2.7**	**1.1**	0.5		1	01/02/2024 14:15	TO-15/R3QA230
Methyl Methacrylate	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
Methyl tert-Butyl Ether	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
4-Methyl-2-pentanone	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
Methylene Chloride	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
Naphthalene	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
Propylene	**1.1**	**0.6**	0.5		1	01/02/2024 14:15	TO-15/R3QA230
Styrene	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
Tetrachloroethene	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
Tetrahydrofuran	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
Toluene	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
1,1,1-Trichloroethane	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
1,1,2-Trichloroethane	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
Trichloroethene	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
Trichlorofluoromethane	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
Vinyl acetate	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
Vinyl chloride	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230
m,p-Xylene	U	U	1.0		1	01/02/2024 14:15	TO-15/R3QA230
o-Xylene	U	U	0.5		1	01/02/2024 14:15	TO-15/R3QA230

Surrogates

Analyte	Result ppbv	Flags Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed	Method/SOP#
Surrogate: 4-Bromofluorobenzene	9.85		**98 %**	*80-120*	01/02/2024 13:15	01/02/2024 14:15	*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-1-12232023-50 **Lab ID:** 2401002-02

Sample Matrix: Air **Date Collected:** 12/23/2023

Volatile Organic Compounds
Targets

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flags Qualifiers	Dilution	Analyzed	Method/SOP#
Acetone	**5.4**	**2.2**	0.5		1	01/02/2024 15:06	TO-15/R3QA230
Acrolein	U	U	0.5	UJ	1	01/02/2024 15:06	TO-15/R3QA230
Benzene	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
Benzyl chloride	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
Bromodichloromethane	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
Bromoform	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
Bromomethane	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
1,3-Butadiene	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
2-Butanone	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
Carbon disulfide	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
Carbon Tetrachloride	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
Chlorobenzene	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
Chloroethane	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
Chloroform	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
Chloromethane	**1.1**	**0.5**	0.5		1	01/02/2024 15:06	TO-15/R3QA230
Cyclohexane	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
Dibromochloromethane	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
1,2-Dichlorobenzene	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
1,3-Dichlorobenzene	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
1,4-Dichlorobenzene	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
Dichlorodifluoromethane	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
1,1-Dichloroethane	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
1,2-Dichloroethane	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
1,1-Dichloroethene	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
cis-1,2-Dichloroethene	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
trans-1,2-Dichloroethene	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
1,2-Dichloropropane	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
cis-1,3-Dichloropropene	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
trans-1,3-Dichloropropene	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
Dichlorotetrafluoroethane	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
1,4-Dioxane	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
Ethanol	**15.1**	**7.9**	0.5		1	01/02/2024 15:06	TO-15/R3QA230
Ethyl Acetate	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
Ethylbenzene	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
4-Ethyltoluene	U	U	0.5		1	01/02/2024 15:06	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-1-12232023-50 **Lab ID:** 2401002-02

Sample Matrix: Air **Date Collected:** 12/23/2023

Volatile Organic Compounds
Targets (Continued)

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flags Qualifiers	Dilution	Analyzed	Method/SOP#
Freon 113	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
Heptane	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
Hexachlorobutadiene	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
Hexane	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
2-Hexanone	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
Isopropyl alcohol	**1.8**	**0.7**	0.5		1	01/02/2024 15:06	TO-15/R3QA230
Methyl Methacrylate	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
Methyl tert-Butyl Ether	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
4-Methyl-2-pentanone	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
Methylene Chloride	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
Naphthalene	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
Propylene	**1.4**	**0.8**	0.5		1	01/02/2024 15:06	TO-15/R3QA230
Styrene	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
Tetrachloroethene	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
Tetrahydrofuran	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
Toluene	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
1,1,1-Trichloroethane	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
1,1,2-Trichloroethane	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
Trichloroethene	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
Trichlorofluoromethane	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
Vinyl acetate	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
Vinyl chloride	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230
m,p-Xylene	U	U	1.0		1	01/02/2024 15:06	TO-15/R3QA230
o-Xylene	U	U	0.5		1	01/02/2024 15:06	TO-15/R3QA230

Surrogates

Analyte	Result ppbv	Flags Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed	Method/SOP#
Surrogate: 4-Bromofluorobenzene	9.85		**98 %**	*80-120*	01/02/2024 13:15	01/02/2024 15:06	*TO-15/R3QA230*

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

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

Station ID: W-R-2-12232023-51 **Lab ID:** 2401002-03

Sample Matrix: Air **Date Collected:** 12/23/2023

Volatile Organic Compounds
Targets

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flags Qualifiers	Dilution	Analyzed	Method/SOP#
Acetone	**11.2**	**4.7**	0.5		1	01/02/2024 15:57	TO-15/R3QA230
Acrolein	U	U	0.5	UJ	1	01/02/2024 15:57	TO-15/R3QA230
Benzene	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
Benzyl chloride	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
Bromodichloromethane	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
Bromoform	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
Bromomethane	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
1,3-Butadiene	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
2-Butanone	**2.3**	**0.8**	0.5		1	01/02/2024 15:57	TO-15/R3QA230
Carbon disulfide	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
Carbon Tetrachloride	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
Chlorobenzene	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
Chloroethane	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
Chloroform	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
Chloromethane	**1.2**	**0.6**	0.5		1	01/02/2024 15:57	TO-15/R3QA230
Cyclohexane	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
Dibromochloromethane	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
1,2-Dichlorobenzene	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
1,3-Dichlorobenzene	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
1,4-Dichlorobenzene	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
Dichlorodifluoromethane	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
1,1-Dichloroethane	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
1,2-Dichloroethane	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
1,1-Dichloroethene	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
cis-1,2-Dichloroethene	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
trans-1,2-Dichloroethene	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
1,2-Dichloropropane	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
cis-1,3-Dichloropropene	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
trans-1,3-Dichloropropene	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
Dichlorotetrafluoroethane	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
1,4-Dioxane	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
Ethanol	**37.6**	**19.8**	1.0		2	01/02/2024 19:18	TO-15/R3QA230
Ethyl Acetate	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
Ethylbenzene	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
4-Ethyltoluene	U	U	0.5		1	01/02/2024 15:57	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-2-12232023-51 **Lab ID:** 2401002-03

Sample Matrix: Air **Date Collected:** 12/23/2023

Volatile Organic Compounds
Targets (Continued)

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flags Qualifiers	Dilution	Analyzed	Method/SOP#
Freon 113	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
Heptane	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
Hexachlorobutadiene	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
Hexane	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
2-Hexanone	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
Isopropyl alcohol	**5.1**	**2.0**	0.5		1	01/02/2024 15:57	TO-15/R3QA230
Methyl Methacrylate	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
Methyl tert-Butyl Ether	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
4-Methyl-2-pentanone	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
Methylene Chloride	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
Naphthalene	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
Propylene	**1.9**	**1.1**	0.5		1	01/02/2024 15:57	TO-15/R3QA230
Styrene	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
Tetrachloroethene	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
Tetrahydrofuran	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
Toluene	**2.8**	**0.7**	0.5		1	01/02/2024 15:57	TO-15/R3QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
1,1,1-Trichloroethane	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
1,1,2-Trichloroethane	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
Trichloroethene	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
Trichlorofluoromethane	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
Vinyl acetate	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
Vinyl chloride	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230
m,p-Xylene	U	U	1.0		1	01/02/2024 15:57	TO-15/R3QA230
o-Xylene	U	U	0.5		1	01/02/2024 15:57	TO-15/R3QA230

Surrogates

Analyte	Result ppbv	Flags Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed	Method/SOP#

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-2-12232023-51 **Lab ID:** 2401002-03

Sample Matrix: Air **Date Collected:** 12/23/2023

Volatile Organic Compounds

Surrogates

Analyte	Result ppbv	Flags Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed	Method/SOP#
Surrogate: 4-Bromofluorobenzene	9.84		**98 %**	*80-120*	01/02/2024 13:15	01/02/2024 15:57	*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-3-12232023-52 **Lab ID:** 2401002-04

Sample Matrix: Air **Date Collected:** 12/23/2023

Volatile Organic Compounds
Targets

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flags Qualifiers	Dilution	Analyzed	Method/SOP#
Acetone	**15.6**	**6.5**	0.5		1	01/02/2024 16:48	TO-15/R3QA230
Acrolein	U	U	0.5	UJ	1	01/02/2024 16:48	TO-15/R3QA230
Benzene	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
Benzyl chloride	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
Bromodichloromethane	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
Bromoform	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
Bromomethane	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
1,3-Butadiene	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
2-Butanone	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
Carbon disulfide	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
Carbon Tetrachloride	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
Chlorobenzene	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
Chloroethane	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
Chloroform	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
Chloromethane	**1.3**	**0.6**	0.5		1	01/02/2024 16:48	TO-15/R3QA230
Cyclohexane	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
Dibromochloromethane	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
1,2-Dichlorobenzene	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
1,3-Dichlorobenzene	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
1,4-Dichlorobenzene	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
Dichlorodifluoromethane	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
1,1-Dichloroethane	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
1,2-Dichloroethane	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
1,1-Dichloroethene	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
cis-1,2-Dichloroethene	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
trans-1,2-Dichloroethene	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
1,2-Dichloropropane	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
cis-1,3-Dichloropropene	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
trans-1,3-Dichloropropene	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
Dichlorotetrafluoroethane	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
1,4-Dioxane	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
Ethanol	**94.3**	**49.6**	2.0		4	01/02/2024 20:04	TO-15/R3QA230
Ethyl Acetate	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
Ethylbenzene	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
4-Ethyltoluene	U	U	0.5		1	01/02/2024 16:48	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-3-12232023-52 **Lab ID:** 2401002-04

Sample Matrix: Air **Date Collected:** 12/23/2023

Volatile Organic Compounds
Targets (Continued)

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flags Qualifiers	Dilution	Analyzed	Method/SOP#
Freon 113	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
Heptane	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
Hexachlorobutadiene	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
Hexane	**2.9**	**0.8**	0.5		1	01/02/2024 16:48	TO-15/R3QA230
2-Hexanone	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
Isopropyl alcohol	**12.9**	**5.2**	0.5		1	01/02/2024 16:48	TO-15/R3QA230
Methyl Methacrylate	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
Methyl tert-Butyl Ether	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
4-Methyl-2-pentanone	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
Methylene Chloride	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
Naphthalene	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
Propylene	**2.5**	**1.4**	0.5		1	01/02/2024 16:48	TO-15/R3QA230
Styrene	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
Tetrachloroethene	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
Tetrahydrofuran	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
Toluene	**6.1**	**1.6**	0.5		1	01/02/2024 16:48	TO-15/R3QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
1,1,1-Trichloroethane	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
1,1,2-Trichloroethane	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
Trichloroethene	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
Trichlorofluoromethane	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
Vinyl acetate	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
Vinyl chloride	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230
m,p-Xylene	**3.3**	**0.8**	1.0	J	1	01/02/2024 16:48	TO-15/R3QA230
o-Xylene	U	U	0.5		1	01/02/2024 16:48	TO-15/R3QA230

Surrogates

Analyte	Result ppbv	Flags Qualifiers	**%Recovery**	%Recovery Limits	Prepared	Analyzed	Method/SOP#

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-3-12232023-52 **Lab ID:** 2401002-04

Sample Matrix: Air **Date Collected:** 12/23/2023

Volatile Organic Compounds

Surrogates

Analyte	Result ppbv	Flags Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed	Method/SOP#
Surrogate: 4-Bromofluorobenzene	9.86		**99 %**	*80-120*	01/02/2024 13:15	01/02/2024 16:48	*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-4-12232023-53 **Lab ID:** 2401002-05

Sample Matrix: Air **Date Collected:** 12/23/2023

Volatile Organic Compounds
Targets

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flags Qualifiers	Dilution	Analyzed	Method/SOP#
Acetone	**10.6**	**4.4**	0.5		1	01/02/2024 17:40	TO-15/R3QA230
Acrolein	U	U	0.5	UJ	1	01/02/2024 17:40	TO-15/R3QA230
Benzene	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
Benzyl chloride	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
Bromodichloromethane	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
Bromoform	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
Bromomethane	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
1,3-Butadiene	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
2-Butanone	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
Carbon disulfide	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
Carbon Tetrachloride	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
Chlorobenzene	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
Chloroethane	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
Chloroform	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
Chloromethane	**1.2**	**0.6**	0.5		1	01/02/2024 17:40	TO-15/R3QA230
Cyclohexane	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
Dibromochloromethane	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
1,2-Dichlorobenzene	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
1,3-Dichlorobenzene	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
1,4-Dichlorobenzene	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
Dichlorodifluoromethane	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
1,1-Dichloroethane	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
1,2-Dichloroethane	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
1,1-Dichloroethene	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
cis-1,2-Dichloroethene	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
trans-1,2-Dichloroethene	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
1,2-Dichloropropane	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
cis-1,3-Dichloropropene	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
trans-1,3-Dichloropropene	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
Dichlorotetrafluoroethane	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
1,4-Dioxane	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
Ethanol	**62.1**	**32.7**	2.0		4	01/02/2024 20:49	TO-15/R3QA230
Ethyl Acetate	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
Ethylbenzene	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
4-Ethyltoluene	U	U	0.5		1	01/02/2024 17:40	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-4-12232023-53 **Lab ID:** 2401002-05

Sample Matrix: Air **Date Collected:** 12/23/2023

Volatile Organic Compounds
Targets (Continued)

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flags Qualifiers	Dilution	Analyzed	Method/SOP#
Freon 113	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
Heptane	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
Hexachlorobutadiene	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
Hexane	**2.2**	**0.6**	0.5		1	01/02/2024 17:40	TO-15/R3QA230
2-Hexanone	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
Isopropyl alcohol	**8.3**	**3.3**	0.5		1	01/02/2024 17:40	TO-15/R3QA230
Methyl Methacrylate	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
Methyl tert-Butyl Ether	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
4-Methyl-2-pentanone	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
Methylene Chloride	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
Naphthalene	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
Propylene	**2.4**	**1.4**	0.5		1	01/02/2024 17:40	TO-15/R3QA230
Styrene	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
Tetrachloroethene	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
Tetrahydrofuran	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
Toluene	**4.6**	**1.2**	0.5		1	01/02/2024 17:40	TO-15/R3QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
1,1,1-Trichloroethane	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
1,1,2-Trichloroethane	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
Trichloroethene	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
Trichlorofluoromethane	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
Vinyl acetate	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
Vinyl chloride	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230
m,p-Xylene	**2.6**	**0.6**	1.0	J	1	01/02/2024 17:40	TO-15/R3QA230
o-Xylene	U	U	0.5		1	01/02/2024 17:40	TO-15/R3QA230

Surrogates

Analyte	Result ppbv	Flags Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed	Method/SOP#

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-4-12232023-53 **Lab ID:** 2401002-05

Sample Matrix: Air **Date Collected:** 12/23/2023

Volatile Organic Compounds

Surrogates

Analyte	Result ppbv	Flags Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed	Method/SOP#
Surrogate: 4-Bromofluorobenzene	9.85		**98 %**	*80-120*	01/02/2024 13:15	01/02/2024 17:40	*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-5-12232023-54 **Lab ID:** 2401002-06

Sample Matrix: Air **Date Collected:** 12/23/2023

Volatile Organic Compounds
Targets

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flags Qualifiers	Dilution	Analyzed	Method/SOP#
Acetone	**8.0**	**3.3**	0.5		1	01/02/2024 18:30	TO-15/R3QA230
Acrolein	U	U	0.5	UJ	1	01/02/2024 18:30	TO-15/R3QA230
Benzene	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
Benzyl chloride	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
Bromodichloromethane	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
Bromoform	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
Bromomethane	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
1,3-Butadiene	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
2-Butanone	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
Carbon disulfide	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
Carbon Tetrachloride	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
Chlorobenzene	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
Chloroethane	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
Chloroform	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
Chloromethane	**1.2**	**0.6**	0.5		1	01/02/2024 18:30	TO-15/R3QA230
Cyclohexane	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
Dibromochloromethane	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
1,2-Dichlorobenzene	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
1,3-Dichlorobenzene	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
1,4-Dichlorobenzene	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
Dichlorodifluoromethane	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
1,1-Dichloroethane	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
1,2-Dichloroethane	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
1,1-Dichloroethene	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
cis-1,2-Dichloroethene	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
trans-1,2-Dichloroethene	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
1,2-Dichloropropane	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
cis-1,3-Dichloropropene	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
trans-1,3-Dichloropropene	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
Dichlorotetrafluoroethane	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
1,4-Dioxane	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
Ethanol	**42.5**	**22.4**	1.0		2	01/02/2024 22:22	TO-15/R3QA230
Ethyl Acetate	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
Ethylbenzene	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
4-Ethyltoluene	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Site Name: IVY CITY TO15 **Project #:** NSF 791

Station ID: W-R-5-12232023-54 **Lab ID:** 2401002-06

Sample Matrix: Air **Date Collected:** 12/23/2023

Volatile Organic Compounds
Targets (Continued)

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flags Qualifiers	Dilution	Analyzed	Method/SOP#
Freon 113	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
Heptane	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
Hexachlorobutadiene	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
Hexane	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
2-Hexanone	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
Isopropyl alcohol	**5.5**	**2.2**	0.5		1	01/02/2024 18:30	TO-15/R3QA230
Methyl Methacrylate	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
Methyl tert-Butyl Ether	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
4-Methyl-2-pentanone	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
Methylene Chloride	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
Naphthalene	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
Propylene	**2.1**	**1.2**	0.5		1	01/02/2024 18:30	TO-15/R3QA230
Styrene	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
Tetrachloroethene	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
Tetrahydrofuran	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
Toluene	**3.4**	**0.9**	0.5		1	01/02/2024 18:30	TO-15/R3QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
1,1,1-Trichloroethane	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
1,1,2-Trichloroethane	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
Trichloroethene	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
Trichlorofluoromethane	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
Vinyl acetate	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
Vinyl chloride	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230
m,p-Xylene	U	U	1.0		1	01/02/2024 18:30	TO-15/R3QA230
o-Xylene	U	U	0.5		1	01/02/2024 18:30	TO-15/R3QA230

Surrogates

Analyte	Result ppbv	Flags Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed	Method/SOP#

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Fort Meade, Maryland 20755-5350

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

Station ID: W-R-5-12232023-54 **Lab ID:** 2401002-06

Sample Matrix: Air **Date Collected:** 12/23/2023

Volatile Organic Compounds

Surrogates

Analyte	Result ppbv	Flags Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed	Method/SOP#
Surrogate: 4-Bromofluorobenzene	9.77		**98 %**	*80-120*	01/02/2024 13:15	01/02/2024 18:30	*TO-15/R3QA230*

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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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:	2401002-01					
Station ID:	W-R-0-12232023-55					
Sample Matrix:	Air					
Collected:	12/23/2023					
106-97-8	Butane	1.4	T	5.16	01/02/2024 14:15	TO-15/R3QA230
306-83-2	Ethane, 2,2-dichloro-1,1,1-...	4.9	T	7.01	01/02/2024 14:15	TO-15/R3QA230

Volatile Organic Compounds

CAS Number	Compound	Result ppbv	Analyte Qualifiers	Retention Time	Analyzed	Method/SOP#
Lab ID:	2401002-02					
Station ID:	W-R-1-12232023-50					
Sample Matrix:	Air					
Collected:	12/23/2023					
106-97-8	Butane	1.0	T	5.16	01/02/2024 15:06	TO-15/R3QA230

Volatile Organic Compounds

CAS Number	Compound	Result ppbv	Analyte Qualifiers	Retention Time	Analyzed	Method/SOP#
Lab ID:	2401002-03					
Station ID:	W-R-2-12232023-51					
Sample Matrix:	Air					
Collected:	12/23/2023					
106-97-8	Butane	2.4	T	5.16	01/02/2024 15:57	TO-15/R3QA230
78-78-4	Butane, 2-methyl-	1.2	T	6.61	01/02/2024 15:57	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:	2401002-04					
Station ID:	W-R-3-12232023-52					
Sample Matrix:	Air					
Collected:	12/23/2023					
75-37-6	Ethane, 1,1-difluoro-	1.5	T	4.16	01/02/2024 16:48	TO-15/R3QA230
106-97-8	Butane	5.9	T	5.17	01/02/2024 16:48	TO-15/R3QA230
78-78-4	Butane, 2-methyl-	2.9	T	6.61	01/02/2024 16:48	TO-15/R3QA230
306-83-2	Ethane, 2,2-dichloro-1,1,1-...	1.7	T	7.01	01/02/2024 16:48	TO-15/R3QA230
109-66-0	Pentane	2.2	T	7.27	01/02/2024 16:48	TO-15/R3QA230

Volatile Organic Compounds

CAS Number	Compound	Result ppbv	Analyte Qualifiers	Retention Time	Analyzed	Method/SOP#
Lab ID:	2401002-05					
Station ID:	W-R-4-12232023-53					
Sample Matrix:	Air					
Collected:	12/23/2023					
106-97-8	Butane	4.0	T	5.17	01/02/2024 17:40	TO-15/R3QA230
78-78-4	Butane, 2-methyl-	2.1	T	6.61	01/02/2024 17:40	TO-15/R3QA230
306-83-2	Ethane, 2,2-dichloro-1,1,1-...	5.2	T	7.01	01/02/2024 17:40	TO-15/R3QA230
109-66-0	Pentane	1.6	T	7.27	01/02/2024 17:40	TO-15/R3QA230

Volatile Organic Compounds

CAS Number	Compound	Result ppbv	Analyte Qualifiers	Retention Time	Analyzed	Method/SOP#
Lab ID:	2401002-06					
Station ID:	W-R-5-12232023-54					
Sample Matrix:	Air					
Collected:	12/23/2023					
106-97-8	Butane	2.7	T	5.16	01/02/2024 18:30	TO-15/R3QA230
78-78-4	Butane, 2-methyl-	1.5	T	6.60	01/02/2024 18:30	TO-15/R3QA230
109-66-0	Pentane	1.1	T	7.27	01/02/2024 18:30	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 BA40303 - TO-15 Air

Blank (BA40303-BLK1) Prepared & Analyzed: 01/02/2024 13:25

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 BA40303 - TO-15 Air										
Blank (BA40303-BLK1)				Prepared & Analyzed: 01/02/2024 13:25						
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	*9.84*		*"*	*10.000*		*98*	*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.

UJ	The analyte was not detected at or above the quantitation limit. The quantitation limit is an estimate.
T	Tentatively Identified Compound. Identified as a result of a library search using the EPA/NIST Mass Spectral Library. Standards were not used to verify the identity and quantity of the compound. The reported value is an estimate.
J	The identification of the analyte is acceptable; the reported value is an estimate.
%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