

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-080412-1	Lab ID: 1208007-01
Sample Matrix: Air	Date Collected: 08/04/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/SC#
Benzene	2.1	0.7	0.5		1	08/16/12 11:09	TO-15/R3 QA230
Benzyl chloride	U	U	0.5		1	08/16/12 11:09	TO-15/R3 QA230
Bromodichloromethane	U	U	0.5		1	08/16/12 11:09	TO-15/R3 QA230
Bromoform	U	U	0.5		1	08/16/12 11:09	TO-15/R3 QA230
Bromomethane	U	U	0.5		1	08/16/12 11:09	TO-15/R3 QA230
1,3-Butadiene	U	U	0.5		1	08/16/12 11:09	TO-15/R3 QA230
2-Butanone	2.2	0.8	0.5		1	08/16/12 11:09	TO-15/R3 QA230
Carbon disulfide	0.6	0.2	0.5	J	1	08/16/12 11:09	TO-15/R3 QA230
Carbon Tetrachloride	U	U	0.5		1	08/16/12 11:09	TO-15/R3 QA230
Chlorobenzene	U	U	0.5		1	08/16/12 11:09	TO-15/R3 QA230
Chloroethane	U	U	0.5		1	08/16/12 11:09	TO-15/R3 QA230
Chloroform	U	U	0.5		1	08/16/12 11:09	TO-15/R3 QA230
Chloromethane	2.1	1.0	0.5		1	08/16/12 11:09	TO-15/R3 QA230
Dibromochloromethane	U	U	0.5		1	08/16/12 11:09	TO-15/R3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	08/16/12 11:09	TO-15/R3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	08/16/12 11:09	TO-15/R3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	08/16/12 11:09	TO-15/R3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	08/16/12 11:09	TO-15/R3 QA230
Dichlorodifluoromethane	4.1	0.8	0.5		1	08/16/12 11:09	TO-15/R3 QA230
1,1-Dichloroethane	U	U	0.5		1	08/16/12 11:09	TO-15/R3 QA230
1,2-Dichloroethane	U	U	0.5		1	08/16/12 11:09	TO-15/R3 QA230
1,1-Dichloroethene	U	U	0.5		1	08/16/12 11:09	TO-15/R3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	08/16/12 11:09	TO-15/R3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	08/16/12 11:09	TO-15/R3 QA230
1,2-Dichloropropane	U	U	0.5		1	08/16/12 11:09	TO-15/R3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	08/16/12 11:09	TO-15/R3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	08/16/12 11:09	TO-15/R3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	08/16/12 11:09	TO-15/R3 QA230
Ethanol	30.5	16.1	0.5		1	08/16/12 11:09	TO-15/R3 QA230
Ethylbenzene	U	U	0.5		1	08/16/12 11:09	TO-15/R3 QA230
Freon 113	U	U	0.5		1	08/16/12 11:09	TO-15/R3 QA230
Hexachlorobutadiene	U	U	0.5		1	08/16/12 11:09	TO-15/R3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	08/16/12 11:09	TO-15/R3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	08/16/12 11:09	TO-15/R3 QA230
Methylene Chloride	0.7	0.2	0.5	J	1	08/16/12 11:09	TO-15/R3 QA230
Naphthalene	U	U	0.5		1	08/16/12 11:09	TO-15/R3 QA230

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Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-080412-1	Lab ID: 1208007-01
Sample Matrix: Air	Date Collected: 08/04/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	08/16/12 11:09	TO-15/ES QA230
Styrene	U	U	0.5		1	08/16/12 11:09	TO-15/ES QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	08/16/12 11:09	TO-15/ES QA230
Tetrachloroethane	U	U	0.5		1	08/16/12 11:09	TO-15/ES QA230
Toluene	14.4	3.8	0.5		1	08/16/12 11:09	TO-15/ES QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	08/16/12 11:09	TO-15/ES QA230
1,1,1-Trichloroethane	U	U	0.5		1	08/16/12 11:09	TO-15/ES QA230
1,1,2-Trichloroethane	U	U	0.5		1	08/16/12 11:09	TO-15/ES QA230
Trichloroethane	U	U	0.5		1	08/16/12 11:09	TO-15/ES QA230
Trichlorofluoromethane	2.1	0.4	0.5	J	1	08/16/12 11:09	TO-15/ES QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	08/16/12 11:09	TO-15/ES QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	08/16/12 11:09	TO-15/ES QA230
Vinyl chloride	U	U	0.5		1	08/16/12 11:09	TO-15/ES QA230
m,p-Xylene	2.2	0.5	1.0	J	1	08/16/12 11:09	TO-15/ES QA230
o-Xylene	0.7	0.2	0.5	J	1	08/16/12 11:09	TO-15/ES QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limits	Prepared	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	10.4		104 %	80-120	08/16/12	08/16/12 11:09	TO-15/ES QA230

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701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-080412-2	Lab ID: 1208007-02
Sample Matrix: Air	Date Collected: 08/04/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifies	Dilution	Analysed	Method/CDM
Benzene	1.1	0.3	0.5	J	1	08/16/12 12:16	TO-15/R3 QA230
Benzyl chloride	U	U	0.5		1	08/16/12 12:16	TO-15/R3 QA230
Bromodichloromethane	U	U	0.5		1	08/16/12 12:16	TO-15/R3 QA230
Bromoform	U	U	0.5		1	08/16/12 12:16	TO-15/R3 QA230
Bromomethane	U	U	0.5		1	08/16/12 12:16	TO-15/R3 QA230
1,3-Butadiene	U	U	0.5		1	08/16/12 12:16	TO-15/R3 QA230
2-Butanone	1.3	0.4	0.5	J	1	08/16/12 12:16	TO-15/R3 QA230
Carbon disulfide	U	U	0.5		1	08/16/12 12:16	TO-15/R3 QA230
Carbon Tetrachloride	U	U	0.5		1	08/16/12 12:16	TO-15/R3 QA230
Chlorobenzene	U	U	0.5		1	08/16/12 12:16	TO-15/R3 QA230
Chloroethane	U	U	0.5		1	08/16/12 12:16	TO-15/R3 QA230
Chloroform	U	U	0.5		1	08/16/12 12:16	TO-15/R3 QA230
Chloromethane	1.2	0.6	0.5		1	08/16/12 12:16	TO-15/R3 QA230
Dibromochloromethane	U	U	0.5		1	08/16/12 12:16	TO-15/R3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	08/16/12 12:16	TO-15/R3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	08/16/12 12:16	TO-15/R3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	08/16/12 12:16	TO-15/R3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	08/16/12 12:16	TO-15/R3 QA230
Dichlorodifluoromethane	2.3	0.5	0.5		1	08/16/12 12:16	TO-15/R3 QA230
1,1-Dichloroethane	U	U	0.5		1	08/16/12 12:16	TO-15/R3 QA230
1,2-Dichloroethane	U	U	0.5		1	08/16/12 12:16	TO-15/R3 QA230
1,1-Dichloroethene	U	U	0.5		1	08/16/12 12:16	TO-15/R3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	08/16/12 12:16	TO-15/R3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	08/16/12 12:16	TO-15/R3 QA230
1,2-Dichloropropane	U	U	0.5		1	08/16/12 12:16	TO-15/R3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	08/16/12 12:16	TO-15/R3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	08/16/12 12:16	TO-15/R3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	08/16/12 12:16	TO-15/R3 QA230
Ethanol	21.4	11.3	0.5		1	08/16/12 12:16	TO-15/R3 QA230
Ethylbenzene	1.0	0.2	0.5	J	1	08/16/12 12:16	TO-15/R3 QA230
Freon 113	U	U	0.5		1	08/16/12 12:16	TO-15/R3 QA230
Hexachlorobutadiene	U	U	0.5		1	08/16/12 12:16	TO-15/R3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	08/16/12 12:16	TO-15/R3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	08/16/12 12:16	TO-15/R3 QA230
Methylene Chloride	0.7	0.2	0.5	J	1	08/16/12 12:16	TO-15/R3 QA230
Naphthalene	U	U	0.5		1	08/16/12 12:16	TO-15/R3 QA230

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Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-080412-2	Lab ID: 1208007-02
Sample Matrix: Air	Date Collected: 08/04/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	08/16/12 12:16	TO-15/ES QA230
Styrene	U	U	0.5		1	08/16/12 12:16	TO-15/ES QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	08/16/12 12:16	TO-15/ES QA230
Tetrachloroethene	U	U	0.5		1	08/16/12 12:16	TO-15/ES QA230
Toluene	8.3	2.2	0.5		1	08/16/12 12:16	TO-15/ES QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	08/16/12 12:16	TO-15/ES QA230
1,1,1-Trichloroethane	U	U	0.5		1	08/16/12 12:16	TO-15/ES QA230
1,1,2-Trichloroethane	U	U	0.5		1	08/16/12 12:16	TO-15/ES QA230
Trichloroethene	U	U	0.5		1	08/16/12 12:16	TO-15/ES QA230
Trichlorofluoromethane	1.2	0.2	0.5	J	1	08/16/12 12:16	TO-15/ES QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	08/16/12 12:16	TO-15/ES QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	08/16/12 12:16	TO-15/ES QA230
Vinyl chloride	U	U	0.5		1	08/16/12 12:16	TO-15/ES QA230
m,p-Xylene	4.1	0.9	1.0	J	1	08/16/12 12:16	TO-15/ES QA230
o-Xylene	1.3	0.3	0.5	J	1	08/16/12 12:16	TO-15/ES QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.99		100 %	<i>80-120</i>	08/16/12	08/16/12 12:16	TO-15/ES QA230

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Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-080412-2C0	Lab ID: 1208007-03
Sample Matrix: Air	Date Collected: 08/04/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/SCM#
Benzene	1.9	0.6	0.5		1	08/16/12 13:00	TO-15/E3 Q4230
Benzyl chloride	U	U	0.5		1	08/16/12 13:00	TO-15/E3 Q4230
Bromodichloromethane	U	U	0.5		1	08/16/12 13:00	TO-15/E3 Q4230
Bromofom	U	U	0.5		1	08/16/12 13:00	TO-15/E3 Q4230
Bromomethane	U	U	0.5		1	08/16/12 13:00	TO-15/E3 Q4230
1,3-Butadiene	U	U	0.5		1	08/16/12 13:00	TO-15/E3 Q4230
2-Butanone	1.8	0.6	0.5		1	08/16/12 13:00	TO-15/E3 Q4230
Carbon disulfide	U	U	0.5		1	08/16/12 13:00	TO-15/E3 Q4230
Carbon Tetrachloride	U	U	0.5		1	08/16/12 13:00	TO-15/E3 Q4230
Chlorobenzene	U	U	0.5		1	08/16/12 13:00	TO-15/E3 Q4230
Chloroethane	U	U	0.5		1	08/16/12 13:00	TO-15/E3 Q4230
Chloroform	U	U	0.5		1	08/16/12 13:00	TO-15/E3 Q4230
Chloromethane	2.0	1.0	0.5		1	08/16/12 13:00	TO-15/E3 Q4230
Dibromochloromethane	U	U	0.5		1	08/16/12 13:00	TO-15/E3 Q4230
1,2-Dibromoethane (EDB)	U	U	0.5		1	08/16/12 13:00	TO-15/E3 Q4230
1,2-Dichlorobenzene	U	U	0.5		1	08/16/12 13:00	TO-15/E3 Q4230
1,3-Dichlorobenzene	U	U	0.5		1	08/16/12 13:00	TO-15/E3 Q4230
1,4-Dichlorobenzene	U	U	0.5		1	08/16/12 13:00	TO-15/E3 Q4230
Dichlorodifluoromethane	3.8	0.8	0.5		1	08/16/12 13:00	TO-15/E3 Q4230
1,1-Dichloroethane	U	U	0.5		1	08/16/12 13:00	TO-15/E3 Q4230
1,2-Dichloroethane	U	U	0.5		1	08/16/12 13:00	TO-15/E3 Q4230
1,1-Dichloroethene	U	U	0.5		1	08/16/12 13:00	TO-15/E3 Q4230
cis-1,2-Dichloroethane	U	U	0.5		1	08/16/12 13:00	TO-15/E3 Q4230
trans-1,2-Dichloroethane	U	U	0.5		1	08/16/12 13:00	TO-15/E3 Q4230
1,2-Dichloropropane	U	U	0.5		1	08/16/12 13:00	TO-15/E3 Q4230
cis-1,3-Dichloropropene	U	U	0.5		1	08/16/12 13:00	TO-15/E3 Q4230
trans-1,3-Dichloropropene	U	U	0.5		1	08/16/12 13:00	TO-15/E3 Q4230
Dichlorotetrafluoroethane	U	U	0.5		1	08/16/12 13:00	TO-15/E3 Q4230
Ethanol	20.7	10.9	0.5		1	08/16/12 13:00	TO-15/E3 Q4230
Ethylbenzene	1.1	0.3	0.5	J	1	08/16/12 13:00	TO-15/E3 Q4230
Freon 113	U	U	0.5		1	08/16/12 13:00	TO-15/E3 Q4230
Hexachlorobutadiene	U	U	0.5		1	08/16/12 13:00	TO-15/E3 Q4230
Methyl tert-Butyl Ether	U	U	0.5		1	08/16/12 13:00	TO-15/E3 Q4230
4-Methyl-2-pentanone	U	U	0.5		1	08/16/12 13:00	TO-15/E3 Q4230
Methylene Chloride	0.7	0.2	0.5	J	1	08/16/12 13:00	TO-15/E3 Q4230
Naphthalene	U	U	0.5		1	08/16/12 13:00	TO-15/E3 Q4230

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Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-080412-2C0	Lab ID: 1208007-03
Sample Matrix: Air	Date Collected: 08/04/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCOW
Propylene	U	U	0.5		1	08/16/12 13:00	TO-15/E3 QA230
Styrene	0.7	0.2	0.5	J	1	08/16/12 13:00	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	08/16/12 13:00	TO-15/E3 QA230
Tetrachloroethene	U	U	0.5		1	08/16/12 13:00	TO-15/E3 QA230
Toluene	449	11.8	0.5		1	08/16/12 13:00	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	08/16/12 13:00	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	08/16/12 13:00	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	08/16/12 13:00	TO-15/E3 QA230
Trichloroethene	U	U	0.5		1	08/16/12 13:00	TO-15/E3 QA230
Trichlorofluoromethane	2.0	0.4	0.5	J	1	08/16/12 13:00	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	08/16/12 13:00	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	08/16/12 13:00	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	08/16/12 13:00	TO-15/E3 QA230
m,p-Xylene	4.6	1.0	1.0		1	08/16/12 13:00	TO-15/E3 QA230
o-Xylene	1.5	0.4	0.5	J	1	08/16/12 13:00	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCOW
Surrogate: Bromofluorobenzene	106		106 %	80-120	08/16/12	08/16/12 13:00	TO-15/E3 QA230

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Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-080412-3	Lab ID: 1208007-04
Sample Matrix: Air	Date Collected: 08/04/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Benzene	2.7	0.8	0.5		1	08/16/12 13:42	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	08/16/12 13:42	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	08/16/12 13:42	TO-15/RS QA230
Bromoform	U	U	0.5		1	08/16/12 13:42	TO-15/RS QA230
Bromomethane	U	U	0.5		1	08/16/12 13:42	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	08/16/12 13:42	TO-15/RS QA230
2-Butanone	6.7	2.2	0.5		1	08/16/12 13:42	TO-15/RS QA230
Carbon disulfide	0.5	0.2	0.5	J	1	08/16/12 13:42	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	08/16/12 13:42	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	08/16/12 13:42	TO-15/RS QA230
Chloroethane	U	U	0.5		1	08/16/12 13:42	TO-15/RS QA230
Chloroform	U	U	0.5		1	08/16/12 13:42	TO-15/RS QA230
Chloromethane	1.7	0.8	0.5		1	08/16/12 13:42	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	08/16/12 13:42	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	08/16/12 13:42	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	08/16/12 13:42	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	08/16/12 13:42	TO-15/RS QA230
1,4-Dichlorobenzene	11.1	1.8	0.5		1	08/16/12 13:42	TO-15/RS QA230
Dichlorodifluoromethane	3.0	0.6	0.5		1	08/16/12 13:42	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	08/16/12 13:42	TO-15/RS QA230
1,2-Dichloroethane	2.5	0.6	0.5		1	08/16/12 13:42	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	08/16/12 13:42	TO-15/RS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	08/16/12 13:42	TO-15/RS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	08/16/12 13:42	TO-15/RS QA230
1,2-Dichloropropane	U	U	0.5		1	08/16/12 13:42	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	08/16/12 13:42	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	08/16/12 13:42	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	08/16/12 13:42	TO-15/RS QA230
Ethanol	65.8	34.6	1.0		2	08/30/12 15:28	TO-15/RS QA230
Ethylbenzene	5.9	1.4	0.5		1	08/16/12 13:42	TO-15/RS QA230
Heon 113	U	U	0.5		1	08/16/12 13:42	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	08/16/12 13:42	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	08/16/12 13:42	TO-15/RS QA230
4-Methyl-2-pentanone	0.9	0.2	0.5	J	1	08/16/12 13:42	TO-15/RS QA230
Methylene Chloride	2.8	0.8	0.5		1	08/16/12 13:42	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5350



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-080412-3	Lab ID: 1208007-04
Sample Matrix: Air	Date Collected: 08/04/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Naphthalene	11	0.2	0.5	J	1	08/16/12 13:42	TO-15/R3 Q4230
Propylene	U	U	0.5		1	08/16/12 13:42	TO-15/R3 Q4230
Styrene	419	9.8	0.5		1	08/16/12 13:42	TO-15/R3 Q4230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	08/16/12 13:42	TO-15/R3 Q4230
Tetrachloroethene	U	U	0.5		1	08/16/12 13:42	TO-15/R3 Q4230
Toluene	661	17.4	0.5		1	08/16/12 13:42	TO-15/R3 Q4230
1,2,4-Trichlorobenzene	U	U	0.5		1	08/16/12 13:42	TO-15/R3 Q4230
1,1,1-Trichloroethane	U	U	0.5		1	08/16/12 13:42	TO-15/R3 Q4230
1,1,2-Trichloroethane	U	U	0.5		1	08/16/12 13:42	TO-15/R3 Q4230
Trichloroethene	U	U	0.5		1	08/16/12 13:42	TO-15/R3 Q4230
Trichlorofluoromethane	19	0.3	0.5	J	1	08/16/12 13:42	TO-15/R3 Q4230
1,2,4-Trimethylbenzene	31	0.6	0.5		1	08/16/12 13:42	TO-15/R3 Q4230
1,3,5-Trimethylbenzene	U	U	0.5		1	08/16/12 13:42	TO-15/R3 Q4230
Vinyl chloride	U	U	0.5		1	08/16/12 13:42	TO-15/R3 Q4230
m,p-Xylene	111	2.5	1.0		1	08/16/12 13:42	TO-15/R3 Q4230
o-Xylene	43	1.0	0.5		1	08/16/12 13:42	TO-15/R3 Q4230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limits	Prepared	Analysed	Method/SCM#
Surrogate: Bromofluorobenzene	10.1		101 %	80-120	08/16/12	08/16/12 13:42	TO-15/R3 Q4230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-080412	Lab ID: 1208007-05
Sample Matrix: Air	Date Collected: 08/04/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualities	Dilution	Analysis	Method/SCM
Benzene	1.2	0.4	0.5	J	1	08/16/12 14:25	TO-15/R3 QA230
Benzyl chloride	U	U	0.5		1	08/16/12 14:25	TO-15/R3 QA230
Bromodichloromethane	U	U	0.5		1	08/16/12 14:25	TO-15/R3 QA230
Bromoforn	U	U	0.5		1	08/16/12 14:25	TO-15/R3 QA230
Bromomethane	U	U	0.5		1	08/16/12 14:25	TO-15/R3 QA230
1,3-Butadiene	U	U	0.5		1	08/16/12 14:25	TO-15/R3 QA230
2-Butanone	1.9	0.6	0.5		1	08/16/12 14:25	TO-15/R3 QA230
Carbon disulfide	U	U	0.5		1	08/16/12 14:25	TO-15/R3 QA230
Carbon Tetrachloride	U	U	0.5		1	08/16/12 14:25	TO-15/R3 QA230
Chlorobenzene	U	U	0.5		1	08/16/12 14:25	TO-15/R3 QA230
Chloroethane	U	U	0.5		1	08/16/12 14:25	TO-15/R3 QA230
Chloroform	U	U	0.5		1	08/16/12 14:25	TO-15/R3 QA230
Chloromethane	1.9	0.9	0.5		1	08/16/12 14:25	TO-15/R3 QA230
Dibromochloromethane	U	U	0.5		1	08/16/12 14:25	TO-15/R3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	08/16/12 14:25	TO-15/R3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	08/16/12 14:25	TO-15/R3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	08/16/12 14:25	TO-15/R3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	08/16/12 14:25	TO-15/R3 QA230
Dichlorodifluoromethane	3.2	0.6	0.5		1	08/16/12 14:25	TO-15/R3 QA230
1,1-Dichloroethane	U	U	0.5		1	08/16/12 14:25	TO-15/R3 QA230
1,2-Dichloroethane	U	U	0.5		1	08/16/12 14:25	TO-15/R3 QA230
1,1-Dichloroethene	U	U	0.5		1	08/16/12 14:25	TO-15/R3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	08/16/12 14:25	TO-15/R3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	08/16/12 14:25	TO-15/R3 QA230
1,2-Dichloropropane	U	U	0.5		1	08/16/12 14:25	TO-15/R3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	08/16/12 14:25	TO-15/R3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	08/16/12 14:25	TO-15/R3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	08/16/12 14:25	TO-15/R3 QA230
Ethanol	26.9	14.1	0.5		1	08/16/12 14:25	TO-15/R3 QA230
Ethylbenzene	U	U	0.5		1	08/16/12 14:25	TO-15/R3 QA230
Freon 113	U	U	0.5		1	08/16/12 14:25	TO-15/R3 QA230
Hexachlorobutadiene	U	U	0.5		1	08/16/12 14:25	TO-15/R3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	08/16/12 14:25	TO-15/R3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	08/16/12 14:25	TO-15/R3 QA230
Methylene Chloride	0.9	0.3	0.5	J	1	08/16/12 14:25	TO-15/R3 QA230
Naphthalene	U	U	0.5		1	08/16/12 14:25	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-080412	Lab ID: 1208007-05
Sample Matrix: Air	Date Collected: 08/04/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF
Propylene	U	U	0.5		1	08/16/12 14:25	TO-15/E3 QA230
Styrene	U	U	0.5		1	08/16/12 14:25	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	08/16/12 14:25	TO-15/E3 QA230
Tetrachloroethene	U	U	0.5		1	08/16/12 14:25	TO-15/E3 QA230
Toluene	10.8	2.8	0.5		1	08/16/12 14:25	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	08/16/12 14:25	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	08/16/12 14:25	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	08/16/12 14:25	TO-15/E3 QA230
Trichloroethene	U	U	0.5		1	08/16/12 14:25	TO-15/E3 QA230
Trichlorofluoromethane	1.8	0.3	0.5	J	1	08/16/12 14:25	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	08/16/12 14:25	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	08/16/12 14:25	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	08/16/12 14:25	TO-15/E3 QA230
m,p-Xylene	1.7	0.4	1.0	J	1	08/16/12 14:25	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	08/16/12 14:25	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCDF
<i>Surrogate: Bromofluorobenzene</i>	100		100 %	<i>80-120</i>	08/16/12	08/16/12 14:25	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5350



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-080712-1	Lab ID: 1208007-06
Sample Matrix: Air	Date Collected: 08/07/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualities	Dilution	Analysed	Method/REF
Benzene	2.2	0.7	0.5		1	08/21/12 12:33	TO-15/R3 QA230
Benzyl chloride	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
Bromodichloromethane	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
Bromoform	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
Bromoethane	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
1,3-Butadiene	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
2-Butanone	1.7	0.6	0.5		1	08/21/12 12:33	TO-15/R3 QA230
Carbon disulfide	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
Carbon Tetrachloride	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
Chlorobenzene	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
Chloroethane	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
Chloroform	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
Chloromethane	2.0	1.0	0.5		1	08/21/12 12:33	TO-15/R3 QA230
Dibromochloromethane	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
Dichlorodifluoromethane	4.1	0.8	0.5		1	08/21/12 12:33	TO-15/R3 QA230
1,1-Dichloroethane	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
1,2-Dichloroethane	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
1,1-Dichloroethene	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
1,2-Dichloropropane	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
Ethanol	25.8	13.6	0.5		1	08/21/12 12:33	TO-15/R3 QA230
Ethylbenzene	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
Freon 113	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
Hexachlorobutadiene	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
Methylene Chloride	0.7	0.2	0.5	J	1	08/21/12 12:33	TO-15/R3 QA230
Naphthalene	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5350



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-080712-1	Lab ID: 1208007-06
Sample Matrix: Air	Date Collected: 08/07/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifies	Dilution	Analysed	Method/QC#
Propylene	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
Styrene	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
Tetrachloroethene	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
Toluene	132	3.5	0.5		1	08/21/12 12:33	TO-15/R3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
Trichloroethene	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
Trichlorofluoromethane	2.2	0.4	0.5	J	1	08/21/12 12:33	TO-15/R3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
Vinyl chloride	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230
m,p-Xylene	1.8	0.4	1.0	J	1	08/21/12 12:33	TO-15/R3 QA230
o-Xylene	U	U	0.5		1	08/21/12 12:33	TO-15/R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifies	%Recovery	%Recovery Limit	Expanded	Analysed	Method/QC#
<i>Surrogate: Bromofluorobenzene</i>	103		103 %	<i>80-120</i>	08/21/12	08/21/12 12:33	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-080712-2	Lab ID: 1208007-07
Sample Matrix: Air	Date Collected: 08/07/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifiers	Dilution	Analysis	Method/SCHE
Benzene	1.8	0.6	0.5		1	08/21/12 13:15	TO-15/FS QA230
Benzyl chloride	U	U	0.5		1	08/21/12 13:15	TO-15/FS QA230
Bromodichloromethane	U	U	0.5		1	08/21/12 13:15	TO-15/FS QA230
Bromoform	U	U	0.5		1	08/21/12 13:15	TO-15/FS QA230
Bromoethane	U	U	0.5		1	08/21/12 13:15	TO-15/FS QA230
1,3-Butadiene	U	U	0.5		1	08/21/12 13:15	TO-15/FS QA230
2-Butanone	1.1	0.4	0.5	J	1	08/21/12 13:15	TO-15/FS QA230
Carbon disulfide	U	U	0.5		1	08/21/12 13:15	TO-15/FS QA230
Carbon Tetrachloride	U	U	0.5		1	08/21/12 13:15	TO-15/FS QA230
Chlorobenzene	U	U	0.5		1	08/21/12 13:15	TO-15/FS QA230
Chloroethane	U	U	0.5		1	08/21/12 13:15	TO-15/FS QA230
Chloroform	U	U	0.5		1	08/21/12 13:15	TO-15/FS QA230
Chloromethane	1.8	0.9	0.5		1	08/21/12 13:15	TO-15/FS QA230
Dibromochloromethane	U	U	0.5		1	08/21/12 13:15	TO-15/FS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	08/21/12 13:15	TO-15/FS QA230
1,2-Dichlorobenzene	U	U	0.5		1	08/21/12 13:15	TO-15/FS QA230
1,3-Dichlorobenzene	U	U	0.5		1	08/21/12 13:15	TO-15/FS QA230
1,4-Dichlorobenzene	U	U	0.5		1	08/21/12 13:15	TO-15/FS QA230
Dichlorodifluoromethane	3.9	0.8	0.5		1	08/21/12 13:15	TO-15/FS QA230
1,1-Dichloroethane	U	U	0.5		1	08/21/12 13:15	TO-15/FS QA230
1,2-Dichloroethane	U	U	0.5		1	08/21/12 13:15	TO-15/FS QA230
1,1-Dichloroethene	U	U	0.5		1	08/21/12 13:15	TO-15/FS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	08/21/12 13:15	TO-15/FS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	08/21/12 13:15	TO-15/FS QA230
1,2-Dichloropropane	U	U	0.5		1	08/21/12 13:15	TO-15/FS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	08/21/12 13:15	TO-15/FS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	08/21/12 13:15	TO-15/FS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	08/21/12 13:15	TO-15/FS QA230
Ethanol	19.4	10.2	0.5		1	08/21/12 13:15	TO-15/FS QA230
Ethylbenzene	U	U	0.5		1	08/21/12 13:15	TO-15/FS QA230
Freon 113	U	U	0.5		1	08/21/12 13:15	TO-15/FS QA230
Hexachlorobutadiene	U	U	0.5		1	08/21/12 13:15	TO-15/FS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	08/21/12 13:15	TO-15/FS QA230
4-Methyl-2-pentanone	U	U	0.5		1	08/21/12 13:15	TO-15/FS QA230
Methylene Chloride	0.6	0.2	0.5	J	1	08/21/12 13:15	TO-15/FS QA230
Naphthalene	U	U	0.5		1	08/21/12 13:15	TO-15/FS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-080712-2	Lab ID: 1208007-07
Sample Matrix: Air	Date Collected: 08/07/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDH#
Propylene	U	U	0.5		1	08/21/12 13:15	TO-15/R3 QA230
Styrene	U	U	0.5		1	08/21/12 13:15	TO-15/R3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	08/21/12 13:15	TO-15/R3 QA230
Tetrachloroethene	U	U	0.5		1	08/21/12 13:15	TO-15/R3 QA230
Toluene	461	12.1	0.5		1	08/21/12 13:15	TO-15/R3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	08/21/12 13:15	TO-15/R3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	08/21/12 13:15	TO-15/R3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	08/21/12 13:15	TO-15/R3 QA230
Trichloroethene	U	U	0.5		1	08/21/12 13:15	TO-15/R3 QA230
Trichlorofluoromethane	2.0	0.4	0.5	J	1	08/21/12 13:15	TO-15/R3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	08/21/12 13:15	TO-15/R3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	08/21/12 13:15	TO-15/R3 QA230
Vinyl chloride	U	U	0.5		1	08/21/12 13:15	TO-15/R3 QA230
m,p-Xylene	1.8	0.4	1.0	J	1	08/21/12 13:15	TO-15/R3 QA230
o-Xylene	U	U	0.5		1	08/21/12 13:15	TO-15/R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCDH#
<i>Surrogate: Bromofluorobenzene</i>	102		102 %	80-120	08/21/12	08/21/12 13:15	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-080712-2C0	Lab ID: 1208007-08
Sample Matrix: Air	Date Collected: 08/07/2012

**Volatile Organic Compounds
Targets**

Analyte	ES:ub µg/m ³	ES:ub ppbv	Quantitation Limit ppbv	Flag Qualitas	Dilution	Analysed	Method/SCEN
Benzene	1.6	0.5	0.5		1	08/21/12 13:58	TO-15/R3 QA230
Benzyl chloride	U	U	0.5		1	08/21/12 13:58	TO-15/R3 QA230
Bromodichloromethane	U	U	0.5		1	08/21/12 13:58	TO-15/R3 QA230
Bromoform	U	U	0.5		1	08/21/12 13:58	TO-15/R3 QA230
Bromoethane	U	U	0.5		1	08/21/12 13:58	TO-15/R3 QA230
1,3-Butadiene	U	U	0.5		1	08/21/12 13:58	TO-15/R3 QA230
2-Butanone	1.2	0.4	0.5	J	1	08/21/12 13:58	TO-15/R3 QA230
Carbon disulfide	U	U	0.5		1	08/21/12 13:58	TO-15/R3 QA230
Carbon Tetrachloride	U	U	0.5		1	08/21/12 13:58	TO-15/R3 QA230
Chlorobenzene	U	U	0.5		1	08/21/12 13:58	TO-15/R3 QA230
Chloroethane	U	U	0.5		1	08/21/12 13:58	TO-15/R3 QA230
Chloroform	U	U	0.5		1	08/21/12 13:58	TO-15/R3 QA230
Chloromethane	1.6	0.8	0.5		1	08/21/12 13:58	TO-15/R3 QA230
Dibromochloromethane	U	U	0.5		1	08/21/12 13:58	TO-15/R3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	08/21/12 13:58	TO-15/R3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	08/21/12 13:58	TO-15/R3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	08/21/12 13:58	TO-15/R3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	08/21/12 13:58	TO-15/R3 QA230
Dichlorodifluoromethane	3.3	0.7	0.5		1	08/21/12 13:58	TO-15/R3 QA230
1,1-Dichloroethane	U	U	0.5		1	08/21/12 13:58	TO-15/R3 QA230
1,2-Dichloroethane	U	U	0.5		1	08/21/12 13:58	TO-15/R3 QA230
1,1-Dichloroethene	U	U	0.5		1	08/21/12 13:58	TO-15/R3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	08/21/12 13:58	TO-15/R3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	08/21/12 13:58	TO-15/R3 QA230
1,2-Dichloropropane	U	U	0.5		1	08/21/12 13:58	TO-15/R3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	08/21/12 13:58	TO-15/R3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	08/21/12 13:58	TO-15/R3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	08/21/12 13:58	TO-15/R3 QA230
Ethanol	31.0	16.3	0.5	J	1	08/21/12 13:58	TO-15/R3 QA230
Ethylbenzene	U	U	0.5		1	08/21/12 13:58	TO-15/R3 QA230
Freon 113	U	U	0.5		1	08/21/12 13:58	TO-15/R3 QA230
Hexachlorobutadiene	U	U	0.5		1	08/21/12 13:58	TO-15/R3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	08/21/12 13:58	TO-15/R3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	08/21/12 13:58	TO-15/R3 QA230
Methylene Chloride	0.6	0.2	0.5	J	1	08/21/12 13:58	TO-15/R3 QA230
Naphthalene	U	U	0.5		1	08/21/12 13:58	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-080712-2C0	Lab ID: 1208007-08
Sample Matrix: Air	Date Collected: 08/07/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM
Propylene	U	U	0.5		1	08/21/12 13:58	TO-15/RS QA230
Styrene	U	U	0.5		1	08/21/12 13:58	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	08/21/12 13:58	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	08/21/12 13:58	TO-15/RS QA230
Toluene	12.3	3.2	0.5		1	08/21/12 13:58	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	08/21/12 13:58	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	08/21/12 13:58	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	08/21/12 13:58	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	08/21/12 13:58	TO-15/RS QA230
Trichlorofluoromethane	1.8	0.3	0.5	J	1	08/21/12 13:58	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	08/21/12 13:58	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	08/21/12 13:58	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	08/21/12 13:58	TO-15/RS QA230
m,p-Xylene	2.3	0.5	1.0	J	1	08/21/12 13:58	TO-15/RS QA230
o-Xylene	0.7	0.2	0.5	J	1	08/21/12 13:58	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCM
<i>Surrogate: Bromofluorobenzene</i>	9.97		100 %	80-120	08/21/12	08/21/12 13:58	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-081012-1	Lab ID: 1208007-09
Sample Matrix: Air	Date Collected: 08/10/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Benzene	0.8	0.2	0.5	J	1	08/21/12 14:41	TO-15/ES QA230
Benzyl chloride	U	U	0.5		1	08/21/12 14:41	TO-15/ES QA230
Bromodichloromethane	U	U	0.5		1	08/21/12 14:41	TO-15/ES QA230
Bromoform	U	U	0.5		1	08/21/12 14:41	TO-15/ES QA230
Bromomethane	U	U	0.5		1	08/21/12 14:41	TO-15/ES QA230
1,3-Butadiene	U	U	0.5		1	08/21/12 14:41	TO-15/ES QA230
2-Butanone	0.9	0.3	0.5	J	1	08/21/12 14:41	TO-15/ES QA230
Carbon disulfide	U	U	0.5		1	08/21/12 14:41	TO-15/ES QA230
Carbon Tetrachloride	U	U	0.5		1	08/21/12 14:41	TO-15/ES QA230
Chlorobenzene	U	U	0.5		1	08/21/12 14:41	TO-15/ES QA230
Chloroethane	U	U	0.5		1	08/21/12 14:41	TO-15/ES QA230
Chloroform	U	U	0.5		1	08/21/12 14:41	TO-15/ES QA230
Chloromethane	1.6	0.8	0.5		1	08/21/12 14:41	TO-15/ES QA230
Dibromochloromethane	U	U	0.5		1	08/21/12 14:41	TO-15/ES QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	08/21/12 14:41	TO-15/ES QA230
1,2-Dichlorobenzene	U	U	0.5		1	08/21/12 14:41	TO-15/ES QA230
1,3-Dichlorobenzene	U	U	0.5		1	08/21/12 14:41	TO-15/ES QA230
1,4-Dichlorobenzene	U	U	0.5		1	08/21/12 14:41	TO-15/ES QA230
Dichlorodifluoromethane	3.2	0.6	0.5		1	08/21/12 14:41	TO-15/ES QA230
1,1-Dichloroethane	U	U	0.5		1	08/21/12 14:41	TO-15/ES QA230
1,2-Dichloroethane	U	U	0.5		1	08/21/12 14:41	TO-15/ES QA230
1,1-Dichloroethene	U	U	0.5		1	08/21/12 14:41	TO-15/ES QA230
cis-1,2-Dichloroethene	U	U	0.5		1	08/21/12 14:41	TO-15/ES QA230
trans-1,2-Dichloroethene	U	U	0.5		1	08/21/12 14:41	TO-15/ES QA230
1,2-Dichloropropane	U	U	0.5		1	08/21/12 14:41	TO-15/ES QA230
cis-1,3-Dichloropropene	U	U	0.5		1	08/21/12 14:41	TO-15/ES QA230
trans-1,3-Dichloropropene	U	U	0.5		1	08/21/12 14:41	TO-15/ES QA230
Dichlorotetrafluoroethane	U	U	0.5		1	08/21/12 14:41	TO-15/ES QA230
Ethanol	12.8	6.7	0.5		1	08/21/12 14:41	TO-15/ES QA230
Ethylbenzene	U	U	0.5		1	08/21/12 14:41	TO-15/ES QA230
Freon 113	U	U	0.5		1	08/21/12 14:41	TO-15/ES QA230
Hexachlorobutadiene	U	U	0.5		1	08/21/12 14:41	TO-15/ES QA230
Methyl tert-Butyl Ether	U	U	0.5		1	08/21/12 14:41	TO-15/ES QA230
4-Methyl-2-pentanone	U	U	0.5		1	08/21/12 14:41	TO-15/ES QA230
Methylene Chloride	1.0	0.3	0.5	J	1	08/21/12 14:41	TO-15/ES QA230
Naphthalene	U	U	0.5		1	08/21/12 14:41	TO-15/ES QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-081012-1	Lab ID: 1208007-09
Sample Matrix: Air	Date Collected: 08/10/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	08/21/12 14:41	TO-15/RS QA230
Styrene	U	U	0.5		1	08/21/12 14:41	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	08/21/12 14:41	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	08/21/12 14:41	TO-15/RS QA230
Toluene	4.3	1.1	0.5		1	08/21/12 14:41	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	08/21/12 14:41	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	08/21/12 14:41	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	08/21/12 14:41	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	08/21/12 14:41	TO-15/RS QA230
Trichlorofluoromethane	1.6	0.3	0.5	J	1	08/21/12 14:41	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	08/21/12 14:41	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	08/21/12 14:41	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	08/21/12 14:41	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	08/21/12 14:41	TO-15/RS QA230
o-Xylene	U	U	0.5		1	08/21/12 14:41	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Encovary Limit	Expanded	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.91		99%	80-120	08/21/12	08/21/12 14:41	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA
Station ID: BRIG-VOC-081012-2
Sample Matrix: Air

Project #: NSF 615
Lab ID: 1208007-10
Date Collected: 08/10/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/DOE#
Benzene	1.2	0.4	0.5	J	1	08/21/12 15:24	TO-15/ES QA230
Benzyl chloride	U	U	0.5		1	08/21/12 15:24	TO-15/ES QA230
Bromodichloromethane	U	U	0.5		1	08/21/12 15:24	TO-15/ES QA230
Bromofom	U	U	0.5		1	08/21/12 15:24	TO-15/ES QA230
Bromomethane	U	U	0.5		1	08/21/12 15:24	TO-15/ES QA230
1,3-Butadiene	U	U	0.5		1	08/21/12 15:24	TO-15/ES QA230
2-Butanone	1.0	0.3	0.5	J	1	08/21/12 15:24	TO-15/ES QA230
Carbon disulfide	U	U	0.5		1	08/21/12 15:24	TO-15/ES QA230
Carbon Tetrachloride	U	U	0.5		1	08/21/12 15:24	TO-15/ES QA230
Chlorobenzene	U	U	0.5		1	08/21/12 15:24	TO-15/ES QA230
Chloroethane	U	U	0.5		1	08/21/12 15:24	TO-15/ES QA230
Chloroform	U	U	0.5		1	08/21/12 15:24	TO-15/ES QA230
Chloromethane	2.0	1.0	0.5		1	08/21/12 15:24	TO-15/ES QA230
Dibromochloromethane	U	U	0.5		1	08/21/12 15:24	TO-15/ES QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	08/21/12 15:24	TO-15/ES QA230
1,2-Dichlorobenzene	U	U	0.5		1	08/21/12 15:24	TO-15/ES QA230
1,3-Dichlorobenzene	U	U	0.5		1	08/21/12 15:24	TO-15/ES QA230
1,4-Dichlorobenzene	U	U	0.5		1	08/21/12 15:24	TO-15/ES QA230
Dichlorodifluoromethane	4.2	0.8	0.5		1	08/21/12 15:24	TO-15/ES QA230
1,1-Dichloroethane	U	U	0.5		1	08/21/12 15:24	TO-15/ES QA230
1,2-Dichloroethane	U	U	0.5		1	08/21/12 15:24	TO-15/ES QA230
1,1-Dichloroethene	U	U	0.5		1	08/21/12 15:24	TO-15/ES QA230
cis-1,2-Dichloroethene	U	U	0.5		1	08/21/12 15:24	TO-15/ES QA230
trans-1,2-Dichloroethene	U	U	0.5		1	08/21/12 15:24	TO-15/ES QA230
1,2-Dichloropropane	U	U	0.5		1	08/21/12 15:24	TO-15/ES QA230
cis-1,3-Dichloropropene	U	U	0.5		1	08/21/12 15:24	TO-15/ES QA230
trans-1,3-Dichloropropene	U	U	0.5		1	08/21/12 15:24	TO-15/ES QA230
Dichlorotetrafluoroethane	U	U	0.5		1	08/21/12 15:24	TO-15/ES QA230
Ethanol	163	8.6	0.5		1	08/21/12 15:24	TO-15/ES QA230
Ethylbenzene	U	U	0.5		1	08/21/12 15:24	TO-15/ES QA230
Heon 113	U	U	0.5		1	08/21/12 15:24	TO-15/ES QA230
Hexachlorobutadiene	U	U	0.5		1	08/21/12 15:24	TO-15/ES QA230
Methyl tert-Butyl Ether	U	U	0.5		1	08/21/12 15:24	TO-15/ES QA230
4-Methyl-2-pentanone	U	U	0.5		1	08/21/12 15:24	TO-15/ES QA230
Methylene Chloride	1.3	0.4	0.5	J	1	08/21/12 15:24	TO-15/ES QA230
Naphthalene	U	U	0.5		1	08/21/12 15:24	TO-15/ES QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-081012-2	Lab ID: 1208007-10
Sample Matrix: Air	Date Collected: 08/10/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCOW
Propylene	U	U	0.5		1	08/21/12 15:24	TO-15/E3 QA230
Styrene	U	U	0.5		1	08/21/12 15:24	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	08/21/12 15:24	TO-15/E3 QA230
Tetrachloroethene	U	U	0.5		1	08/21/12 15:24	TO-15/E3 QA230
Toluene	246	6.5	0.5		1	08/21/12 15:24	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	08/21/12 15:24	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	08/21/12 15:24	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	08/21/12 15:24	TO-15/E3 QA230
Trichloroethene	U	U	0.5		1	08/21/12 15:24	TO-15/E3 QA230
Trichlorofluoromethane	2.2	0.4	0.5	J	1	08/21/12 15:24	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	08/21/12 15:24	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	08/21/12 15:24	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	08/21/12 15:24	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	08/21/12 15:24	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	08/21/12 15:24	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery Limit	Expanded	Analysed	Method/SCOW
<i>Surrogate: Bromofluorobenzene</i>	103		103 % <i>80-120</i>	08/21/12	08/21/12 15:24	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-081012-2C0	Lab ID: 1208007-11
Sample Matrix: Air	Date Collected: 08/10/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/SCM
Benzene	1.3	0.4	0.5	J	1	08/21/12 16:05	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	08/21/12 16:05	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	08/21/12 16:05	TO-15/RS QA230
Bromoform	U	U	0.5		1	08/21/12 16:05	TO-15/RS QA230
Bromomethane	U	U	0.5		1	08/21/12 16:05	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	08/21/12 16:05	TO-15/RS QA230
2-Butanone	1.0	0.3	0.5	J	1	08/21/12 16:05	TO-15/RS QA230
Carbon disulfide	U	U	0.5		1	08/21/12 16:05	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	08/21/12 16:05	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	08/21/12 16:05	TO-15/RS QA230
Chloroethane	U	U	0.5		1	08/21/12 16:05	TO-15/RS QA230
Chloroform	U	U	0.5		1	08/21/12 16:05	TO-15/RS QA230
Chloromethane	1.9	0.9	0.5		1	08/21/12 16:05	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	08/21/12 16:05	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	08/21/12 16:05	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	08/21/12 16:05	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	08/21/12 16:05	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	08/21/12 16:05	TO-15/RS QA230
Dichlorodifluoromethane	3.8	0.8	0.5		1	08/21/12 16:05	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	08/21/12 16:05	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	08/21/12 16:05	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	08/21/12 16:05	TO-15/RS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	08/21/12 16:05	TO-15/RS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	08/21/12 16:05	TO-15/RS QA230
1,2-Dichloropropane	U	U	0.5		1	08/21/12 16:05	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	08/21/12 16:05	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	08/21/12 16:05	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	08/21/12 16:05	TO-15/RS QA230
Ethanol	20.8	11.0	0.5		1	08/21/12 16:05	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	08/21/12 16:05	TO-15/RS QA230
Freon 113	U	U	0.5		1	08/21/12 16:05	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	08/21/12 16:05	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	08/21/12 16:05	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	08/21/12 16:05	TO-15/RS QA230
Methylene Chloride	1.1	0.3	0.5	J	1	08/21/12 16:05	TO-15/RS QA230
Naphthalene	U	U	0.5		1	08/21/12 16:05	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-081012-2C0	Lab ID: 1208007-11
Sample Matrix: Air	Date Collected: 08/10/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	08/21/12 16:05	TO-15/ES QA230
Styrene	U	U	0.5		1	08/21/12 16:05	TO-15/ES QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	08/21/12 16:05	TO-15/ES QA230
Tetrachloroethene	U	U	0.5		1	08/21/12 16:05	TO-15/ES QA230
Toluene	8.7	23	0.5		1	08/21/12 16:05	TO-15/ES QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	08/21/12 16:05	TO-15/ES QA230
1,1,1-Trichloroethane	U	U	0.5		1	08/21/12 16:05	TO-15/ES QA230
1,1,2-Trichloroethane	U	U	0.5		1	08/21/12 16:05	TO-15/ES QA230
Trichloroethene	U	U	0.5		1	08/21/12 16:05	TO-15/ES QA230
Trichlorofluoromethane	2.0	04	0.5	J	1	08/21/12 16:05	TO-15/ES QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	08/21/12 16:05	TO-15/ES QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	08/21/12 16:05	TO-15/ES QA230
Vinyl chloride	U	U	0.5		1	08/21/12 16:05	TO-15/ES QA230
m,p-Xylene	U	U	1.0		1	08/21/12 16:05	TO-15/ES QA230
o-Xylene	U	U	0.5		1	08/21/12 16:05	TO-15/ES QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Prepared	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	10.1		101 %	<i>80-120</i>	08/21/12	08/21/12 16:05	TO-15/ES QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-081012-3	Lab ID: 1208007-12
Sample Matrix: Air	Date Collected: 08/10/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/CEM
Benzene	0.8	0.2	0.5	J	1	08/21/12 16:48	TO-15/E3 QA230
Benzyl chloride	U	U	0.5		1	08/21/12 16:48	TO-15/E3 QA230
Bromodichloromethane	U	U	0.5		1	08/21/12 16:48	TO-15/E3 QA230
Bromoforn	U	U	0.5		1	08/21/12 16:48	TO-15/E3 QA230
Bromomethane	U	U	0.5		1	08/21/12 16:48	TO-15/E3 QA230
1,3-Butadiene	U	U	0.5		1	08/21/12 16:48	TO-15/E3 QA230
2-Butanone	1.0	0.3	0.5	J	1	08/21/12 16:48	TO-15/E3 QA230
Carbon disulfide	U	U	0.5		1	08/21/12 16:48	TO-15/E3 QA230
Carbon Tetrachloride	U	U	0.5		1	08/21/12 16:48	TO-15/E3 QA230
Chlorobenzene	U	U	0.5		1	08/21/12 16:48	TO-15/E3 QA230
Chloroethane	U	U	0.5		1	08/21/12 16:48	TO-15/E3 QA230
Chloroform	U	U	0.5		1	08/21/12 16:48	TO-15/E3 QA230
Chloromethane	2.1	1.0	0.5		1	08/21/12 16:48	TO-15/E3 QA230
Dibromochloromethane	U	U	0.5		1	08/21/12 16:48	TO-15/E3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	08/21/12 16:48	TO-15/E3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	08/21/12 16:48	TO-15/E3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	08/21/12 16:48	TO-15/E3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	08/21/12 16:48	TO-15/E3 QA230
Dichlorodifluoromethane	4.4	0.9	0.5		1	08/21/12 16:48	TO-15/E3 QA230
1,1-Dichloroethane	U	U	0.5		1	08/21/12 16:48	TO-15/E3 QA230
1,2-Dichloroethane	U	U	0.5		1	08/21/12 16:48	TO-15/E3 QA230
1,1-Dichloroethene	U	U	0.5		1	08/21/12 16:48	TO-15/E3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	08/21/12 16:48	TO-15/E3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	08/21/12 16:48	TO-15/E3 QA230
1,2-Dichloropropene	U	U	0.5		1	08/21/12 16:48	TO-15/E3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	08/21/12 16:48	TO-15/E3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	08/21/12 16:48	TO-15/E3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	08/21/12 16:48	TO-15/E3 QA230
Ethanol	8.4	4.4	0.5		1	08/21/12 16:48	TO-15/E3 QA230
Ethylbenzene	U	U	0.5		1	08/21/12 16:48	TO-15/E3 QA230
Freon 113	U	U	0.5		1	08/21/12 16:48	TO-15/E3 QA230
Hexachlorobutadiene	U	U	0.5		1	08/21/12 16:48	TO-15/E3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	08/21/12 16:48	TO-15/E3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	08/21/12 16:48	TO-15/E3 QA230
Methylene Chloride	1.2	0.3	0.5	J	1	08/21/12 16:48	TO-15/E3 QA230
Naphthalene	U	U	0.5		1	08/21/12 16:48	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-081012-3	Lab ID: 1208007-12
Sample Matrix: Air	Date Collected: 08/10/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	08/21/12 16:48	TO-15/RS QA230
Styrene	U	U	0.5		1	08/21/12 16:48	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	08/21/12 16:48	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	08/21/12 16:48	TO-15/RS QA230
Toluene	131	34	0.5		1	08/21/12 16:48	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	08/21/12 16:48	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	08/21/12 16:48	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	08/21/12 16:48	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	08/21/12 16:48	TO-15/RS QA230
Trichlorofluoromethane	2.3	04	0.5	J	1	08/21/12 16:48	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	08/21/12 16:48	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	08/21/12 16:48	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	08/21/12 16:48	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	08/21/12 16:48	TO-15/RS QA230
o-Xylene	U	U	0.5		1	08/21/12 16:48	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Accuracy Limits	Prepared	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	104		104 %	80-120	08/21/12	08/21/12 16:48	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5350



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-081012	Lab ID: 1208007-13
Sample Matrix: Air	Date Collected: 08/10/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Benzene	1.1	0.3	0.5	J	1	08/21/12 17:29	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
Bromoforn	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
Bromomethane	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
2-Butanone	1.0	0.3	0.5	J	1	08/21/12 17:29	TO-15/RS QA230
Carbon disulfide	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
Chloroethane	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
Chloroform	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
Chloromethane	2.1	1.0	0.5		1	08/21/12 17:29	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
Dichlorodifluoromethane	4.3	0.9	0.5		1	08/21/12 17:29	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
cis-1,2-Dichloroethane	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
trans-1,2-Dichloroethane	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
1,2-Dichloropropane	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
Ethanol	17.0	8.9	0.5		1	08/21/12 17:29	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
Freon 113	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
Methylene Chloride	1.4	0.4	0.5	J	1	08/21/12 17:29	TO-15/RS QA230
Naphthalene	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-081012	Lab ID: 1208007-13
Sample Matrix: Ar	Date Collected: 08/10/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDW
Propylene	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
Styrene	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
Toluene	3.6	1.0	0.5		1	08/21/12 17:29	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
Trichlorofluoromethane	2.2	0.4	0.5	J	1	08/21/12 17:29	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	08/21/12 17:29	TO-15/RS QA230
o-Xylene	U	U	0.5		1	08/21/12 17:29	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Encountery Limit	Expanded	Analysed	Method/SCDW
<i>Surrogate: Bromofluorobenzene</i>	103		103 %	<i>80-120</i>	08/21/12	08/21/12 17:29	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-081612-1	Lab ID: 1208014-01
Sample Matrix: Air	Date Collected: 08/16/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/DOE#
Benzene	1.6	0.5	0.5		1	08/22/12 14:14	TO-15/FS QA230
Benzyl chloride	U	U	0.5		1	08/22/12 14:14	TO-15/FS QA230
Bromodichloromethane	U	U	0.5		1	08/22/12 14:14	TO-15/FS QA230
Bromoform	U	U	0.5		1	08/22/12 14:14	TO-15/FS QA230
Bromomethane	0.8	0.2	0.5	J	1	08/22/12 14:14	TO-15/FS QA230
1,3-Butadiene	U	U	0.5		1	08/22/12 14:14	TO-15/FS QA230
2-Butanone	1.8	0.6	0.5		1	08/22/12 14:14	TO-15/FS QA230
Carbon disulfide	0.5	0.2	0.5	J	1	08/22/12 14:14	TO-15/FS QA230
Carbon Tetrachloride	1.6	0.2	0.5	J	1	08/22/12 14:14	TO-15/FS QA230
Chlorobenzene	U	U	0.5		1	08/22/12 14:14	TO-15/FS QA230
Chloroethane	U	U	0.5		1	08/22/12 14:14	TO-15/FS QA230
Chloroform	0.9	0.2	0.5	J	1	08/22/12 14:14	TO-15/FS QA230
Chloromethane	2.4	1.1	0.5		1	08/22/12 14:14	TO-15/FS QA230
Dibromochloromethane	U	U	0.5		1	08/22/12 14:14	TO-15/FS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	08/22/12 14:14	TO-15/FS QA230
1,2-Dichlorobenzene	U	U	0.5		1	08/22/12 14:14	TO-15/FS QA230
1,3-Dichlorobenzene	U	U	0.5		1	08/22/12 14:14	TO-15/FS QA230
1,4-Dichlorobenzene	U	U	0.5		1	08/22/12 14:14	TO-15/FS QA230
Dichlorodifluoromethane	4.0	0.8	0.5		1	08/22/12 14:14	TO-15/FS QA230
1,1-Dichloroethane	0.7	0.2	0.5	J	1	08/22/12 14:14	TO-15/FS QA230
1,2-Dichloroethane	0.7	0.2	0.5	J	1	08/22/12 14:14	TO-15/FS QA230
1,1-Dichloroethene	U	U	0.5		1	08/22/12 14:14	TO-15/FS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	08/22/12 14:14	TO-15/FS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	08/22/12 14:14	TO-15/FS QA230
1,2-Dichloropropane	U	U	0.5		1	08/22/12 14:14	TO-15/FS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	08/22/12 14:14	TO-15/FS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	08/22/12 14:14	TO-15/FS QA230
Dichlorotetrafluoroethane	1.4	0.2	0.5	J	1	08/22/12 14:14	TO-15/FS QA230
Ethanol	19.5	10.3	0.5		1	08/22/12 14:14	TO-15/FS QA230
Ethylbenzene	U	U	0.5		1	08/22/12 14:14	TO-15/FS QA230
Freon 113	1.9	0.2	0.5	J	1	08/22/12 14:14	TO-15/FS QA230
Hexachlorobutadiene	U	U	0.5		1	08/22/12 14:14	TO-15/FS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	08/22/12 14:14	TO-15/FS QA230
4-Methyl-2-pentanone	0.9	0.2	0.5	J	1	08/22/12 14:14	TO-15/FS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-081612-1	Lab ID: 1208014-01
Sample Matrix: Air	Date Collected: 08/16/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analyzed	Method/SCM#
Methylene Chloride	1.2	0.4	0.5	J	1	08/22/12 14:14	TO-15/RS QA230
Naphthalene	1.1	0.2	0.5	J	1	08/22/12 14:14	TO-15/RS QA230
Propylene	U	U	0.5		1	08/22/12 14:14	TO-15/RS QA230
Styrene	U	U	0.5		1	08/22/12 14:14	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	1.2	0.2	0.5	J	1	08/22/12 14:14	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	08/22/12 14:14	TO-15/RS QA230
Toluene	6.1	1.6	0.5		1	08/22/12 14:14	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	08/22/12 14:14	TO-15/RS QA230
1,1,1-Trichloroethane	0.9	0.2	0.5	J	1	08/22/12 14:14	TO-15/RS QA230
1,1,2-Trichloroethane	0.9	0.2	0.5	J	1	08/22/12 14:14	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	08/22/12 14:14	TO-15/RS QA230
Trichlorofluoromethane	2.7	0.5	0.5		1	08/22/12 14:14	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	08/22/12 14:14	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	08/22/12 14:14	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	08/22/12 14:14	TO-15/RS QA230
m,p-Xylene	1.7	0.4	1.0	J	1	08/22/12 14:14	TO-15/RS QA230
o-Xylene	0.7	0.2	0.5	J	1	08/22/12 14:14	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analyzed	Method/SCM#
Surrogate: Bromofluorobenzene	9.86		99 %	80-120	08/22/12	08/22/12 14:14	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-081612-2	Lab ID: 1208014-02
Sample Matrix: Air	Date Collected: 08/16/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/DO#
Benzene	1.1	0.4	0.5	J	1	08/22/12 14:57	TO-15/E3 QA230
Benzyl chloride	U	U	0.5		1	08/22/12 14:57	TO-15/E3 QA230
Bromodichloromethane	U	U	0.5		1	08/22/12 14:57	TO-15/E3 QA230
Bromoform	U	U	0.5		1	08/22/12 14:57	TO-15/E3 QA230
Bromoethane	U	U	0.5		1	08/22/12 14:57	TO-15/E3 QA230
1,3-Butadiene	U	U	0.5		1	08/22/12 14:57	TO-15/E3 QA230
2-Butanone	0.7	0.2	0.5	J	1	08/22/12 14:57	TO-15/E3 QA230
Carbon disulfide	U	U	0.5		1	08/22/12 14:57	TO-15/E3 QA230
Carbon Tetrachloride	U	U	0.5		1	08/22/12 14:57	TO-15/E3 QA230
Chlorobenzene	U	U	0.5		1	08/22/12 14:57	TO-15/E3 QA230
Chloroethane	U	U	0.5		1	08/22/12 14:57	TO-15/E3 QA230
Chloroform	U	U	0.5		1	08/22/12 14:57	TO-15/E3 QA230
Chloromethane	1.5	0.7	0.5		1	08/22/12 14:57	TO-15/E3 QA230
Dibromochloromethane	U	U	0.5		1	08/22/12 14:57	TO-15/E3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	08/22/12 14:57	TO-15/E3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	08/22/12 14:57	TO-15/E3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	08/22/12 14:57	TO-15/E3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	08/22/12 14:57	TO-15/E3 QA230
Dichlorodifluoromethane	3.5	0.7	0.5		1	08/22/12 14:57	TO-15/E3 QA230
1,1-Dichloroethane	U	U	0.5		1	08/22/12 14:57	TO-15/E3 QA230
1,2-Dichloroethane	U	U	0.5		1	08/22/12 14:57	TO-15/E3 QA230
1,1-Dichloroethene	U	U	0.5		1	08/22/12 14:57	TO-15/E3 QA230
cis-1,2-Dichloroethane	U	U	0.5		1	08/22/12 14:57	TO-15/E3 QA230
trans-1,2-Dichloroethane	U	U	0.5		1	08/22/12 14:57	TO-15/E3 QA230
1,2-Dichloropropene	U	U	0.5		1	08/22/12 14:57	TO-15/E3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	08/22/12 14:57	TO-15/E3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	08/22/12 14:57	TO-15/E3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	08/22/12 14:57	TO-15/E3 QA230
Ethanol	18.4	9.7	0.5		1	08/22/12 14:57	TO-15/E3 QA230
Ethylbenzene	U	U	0.5		1	08/22/12 14:57	TO-15/E3 QA230
Freon 113	U	U	0.5		1	08/22/12 14:57	TO-15/E3 QA230
Hexachlorobutadiene	U	U	0.5		1	08/22/12 14:57	TO-15/E3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	08/22/12 14:57	TO-15/E3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	08/22/12 14:57	TO-15/E3 QA230
Methylene Chloride	0.7	0.2	0.5	J	1	08/22/12 14:57	TO-15/E3 QA230
Naphthalene	U	U	0.5		1	08/22/12 14:57	TO-15/E3 QA230

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-081612-2	Lab ID: 1208014-02
Sample Matrix: Air	Date Collected: 08/16/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	08/22/12 14:57	TO-15/R3 Q4230
Styrene	U	U	0.5		1	08/22/12 14:57	TO-15/R3 Q4230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	08/22/12 14:57	TO-15/R3 Q4230
Tetrachloroethene	U	U	0.5		1	08/22/12 14:57	TO-15/R3 Q4230
Toluene	6.5	1.7	0.5		1	08/22/12 14:57	TO-15/R3 Q4230
1,2,4-Trichlorobenzene	U	U	0.5		1	08/22/12 14:57	TO-15/R3 Q4230
1,1,1-Trichloroethane	U	U	0.5		1	08/22/12 14:57	TO-15/R3 Q4230
1,1,2-Trichloroethane	U	U	0.5		1	08/22/12 14:57	TO-15/R3 Q4230
Trichloroethene	U	U	0.5		1	08/22/12 14:57	TO-15/R3 Q4230
Trichlorofluoromethane	1.8	0.3	0.5	J	1	08/22/12 14:57	TO-15/R3 Q4230
1,2,4-Trimethylbenzene	U	U	0.5		1	08/22/12 14:57	TO-15/R3 Q4230
1,3,5-Trimethylbenzene	U	U	0.5		1	08/22/12 14:57	TO-15/R3 Q4230
Vinyl chloride	U	U	0.5		1	08/22/12 14:57	TO-15/R3 Q4230
m,p-Xylene	U	U	1.0		1	08/22/12 14:57	TO-15/R3 Q4230
o-Xylene	U	U	0.5		1	08/22/12 14:57	TO-15/R3 Q4230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limits	Prepared	Analysed	Method/SCM#
Surrogate: Bromofluorobenzene	9.88		99%	80-120	08/22/12	08/22/12 14:57	TO-15/R3 Q4230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-081612-2C0	Lab ID: 1208014-03
Sample Matrix: Air	Date Collected: 08/16/2012

**Volatile Organic Compounds
Targets**

Analyte	Es-ult µg/m ³	Es-ult ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCEN
Benzene	1.0	0.3	0.5	J	1	08/22/12 15:41	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	08/22/12 15:41	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	08/22/12 15:41	TO-15/RS QA230
Bromoforn	U	U	0.5		1	08/22/12 15:41	TO-15/RS QA230
Bromomethane	U	U	0.5		1	08/22/12 15:41	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	08/22/12 15:41	TO-15/RS QA230
2-Butanone	0.6	0.2	0.5	J	1	08/22/12 15:41	TO-15/RS QA230
Carbon disulfide	U	U	0.5		1	08/22/12 15:41	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	08/22/12 15:41	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	08/22/12 15:41	TO-15/RS QA230
Chloroethane	U	U	0.5		1	08/22/12 15:41	TO-15/RS QA230
Chloroform	U	U	0.5		1	08/22/12 15:41	TO-15/RS QA230
Chloromethane	1.5	0.7	0.5		1	08/22/12 15:41	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	08/22/12 15:41	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	08/22/12 15:41	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	08/22/12 15:41	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	08/22/12 15:41	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	08/22/12 15:41	TO-15/RS QA230
Dichlorodifluoromethane	3.3	0.7	0.5		1	08/22/12 15:41	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	08/22/12 15:41	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	08/22/12 15:41	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	08/22/12 15:41	TO-15/RS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	08/22/12 15:41	TO-15/RS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	08/22/12 15:41	TO-15/RS QA230
1,2-Dichloropropene	U	U	0.5		1	08/22/12 15:41	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	08/22/12 15:41	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	08/22/12 15:41	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	08/22/12 15:41	TO-15/RS QA230
Ethanol	U	U	0.5		1	08/22/12 15:41	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	08/22/12 15:41	TO-15/RS QA230
Freon 113	U	U	0.5		1	08/22/12 15:41	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	08/22/12 15:41	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	08/22/12 15:41	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	08/22/12 15:41	TO-15/RS QA230
Methylene Chloride	0.6	0.2	0.5	J	1	08/22/12 15:41	TO-15/RS QA230
Naphthalene	U	U	0.5		1	08/22/12 15:41	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5390



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-081612-2C0	Lab ID: 1208014-03
Sample Matrix: Air	Date Collected: 08/16/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF#
Propylene	U	U	0.5		1	08/22/12 15:41	TO-15/E3 QA230
Styrene	U	U	0.5		1	08/22/12 15:41	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	08/22/12 15:41	TO-15/E3 QA230
Tetrachloroethane	U	U	0.5		1	08/22/12 15:41	TO-15/E3 QA230
Toluene	19.7	52	0.5		1	08/22/12 15:41	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	08/22/12 15:41	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	08/22/12 15:41	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	08/22/12 15:41	TO-15/E3 QA230
Trichloroethane	U	U	0.5		1	08/22/12 15:41	TO-15/E3 QA230
Dichlorofluoromethane	1.8	0.3	0.5	J	1	08/22/12 15:41	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	08/22/12 15:41	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	08/22/12 15:41	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	08/22/12 15:41	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	08/22/12 15:41	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	08/22/12 15:41	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Prepared	Analysed	Method/SCDF#
<i>Surrogate: Bromofluorobenzene</i>	9.91		99%	80-120	08/22/12	08/22/12 15:41	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-081612-3	Lab ID: 1208014-04
Sample Matrix: Air	Date Collected: 08/16/2012

Volatile Organic Compounds
Targets

Analyte	Limit µg/m ³	Limit ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/REF
Benzene	1.0	0.3	0.5	J	1	08/22/12 16:24	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	08/22/12 16:24	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	08/22/12 16:24	TO-15/RS QA230
Bromoforn	U	U	0.5		1	08/22/12 16:24	TO-15/RS QA230
Bromomethane	U	U	0.5		1	08/22/12 16:24	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	08/22/12 16:24	TO-15/RS QA230
2-Butanone	1.0	0.3	0.5	J	1	08/22/12 16:24	TO-15/RS QA230
Carbon disulfide	U	U	0.5		1	08/22/12 16:24	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	08/22/12 16:24	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	08/22/12 16:24	TO-15/RS QA230
Chloroethane	U	U	0.5		1	08/22/12 16:24	TO-15/RS QA230
Chloroform	U	U	0.5		1	08/22/12 16:24	TO-15/RS QA230
Chloromethane	1.7	0.8	0.5		1	08/22/12 16:24	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	08/22/12 16:24	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	08/22/12 16:24	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	08/22/12 16:24	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	08/22/12 16:24	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	08/22/12 16:24	TO-15/RS QA230
Trichlorofluoromethane	3.6	0.7	0.5		1	08/22/12 16:24	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	08/22/12 16:24	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	08/22/12 16:24	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	08/22/12 16:24	TO-15/RS QA230
cis-1,2-Dichloroethane	U	U	0.5		1	08/22/12 16:24	TO-15/RS QA230
trans-1,2-Dichloroethane	U	U	0.5		1	08/22/12 16:24	TO-15/RS QA230
1,2-Dichloropropane	U	U	0.5		1	08/22/12 16:24	TO-15/RS QA230
cis-1,3-Dichloropropane	U	U	0.5		1	08/22/12 16:24	TO-15/RS QA230
trans-1,3-Dichloropropane	U	U	0.5		1	08/22/12 16:24	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	08/22/12 16:24	TO-15/RS QA230
Ethanol	8.0	4.2	0.5		1	08/22/12 16:24	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	08/22/12 16:24	TO-15/RS QA230
Heon 113	U	U	0.5		1	08/22/12 16:24	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	08/22/12 16:24	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	08/22/12 16:24	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	08/22/12 16:24	TO-15/RS QA230
Methylene Chloride	3.8	1.1	0.5		1	08/22/12 16:24	TO-15/RS QA230
Naphthalene	U	U	0.5		1	08/22/12 16:24	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5350



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-081612-3	Lab ID: 1208014-04
Sample Matrix: Air	Date Collected: 08/16/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF
Propylene	U	U	0.5		1	08/22/12 16:24	TO-15/E3 Q4230
Styrene	U	U	0.5		1	08/22/12 16:24	TO-15/E3 Q4230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	08/22/12 16:24	TO-15/E3 Q4230
Tetrachloroethene	U	U	0.5		1	08/22/12 16:24	TO-15/E3 Q4230
Toluene	163	43	0.5		1	08/22/12 16:24	TO-15/E3 Q4230
1,2,4-Trichlorobenzene	U	U	0.5		1	08/22/12 16:24	TO-15/E3 Q4230
1,1,1-Trichloroethane	U	U	0.5		1	08/22/12 16:24	TO-15/E3 Q4230
1,1,2-Trichloroethane	U	U	0.5		1	08/22/12 16:24	TO-15/E3 Q4230
Trichloroethene	U	U	0.5		1	08/22/12 16:24	TO-15/E3 Q4230
Trichlorofluoromethane	1.8	03	0.5	J	1	08/22/12 16:24	TO-15/E3 Q4230
1,2,4-Trimethylbenzene	U	U	0.5		1	08/22/12 16:24	TO-15/E3 Q4230
1,3,5-Trimethylbenzene	U	U	0.5		1	08/22/12 16:24	TO-15/E3 Q4230
Vinyl chloride	U	U	0.5		1	08/22/12 16:24	TO-15/E3 Q4230
m,p-Xylene	U	U	1.0		1	08/22/12 16:24	TO-15/E3 Q4230
o-Xylene	U	U	0.5		1	08/22/12 16:24	TO-15/E3 Q4230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Prepared	Analysed	Method/SCDF
<i>Surrogate: Bromofluorobenzene</i>	9.94		99%	80-120	08/22/12	08/22/12 16:24	TO-15/E3 Q4230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA
Station ID: ERIG-VOC-081312-1
Sample Matrix: Air

Project #: NSF 615
Lab ID: 1208014-06
Date Collected: 08/13/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/CDP#
Benzene	1.3	0.4	0.5	J	1	08/22/12 17:08	TO-15/E3 QA230
Benzyl chloride	U	U	0.5		1	08/22/12 17:08	TO-15/E3 QA230
Bromochloromethane	U	U	0.5		1	08/22/12 17:08	TO-15/E3 QA230
Bromofom	U	U	0.5		1	08/22/12 17:08	TO-15/E3 QA230
Bromomethane	U	U	0.5		1	08/22/12 17:08	TO-15/E3 QA230
1,3-Butadiene	U	U	0.5		1	08/22/12 17:08	TO-15/E3 QA230
2-Butanone	1.0	0.3	0.5	J	1	08/22/12 17:08	TO-15/E3 QA230
Carbon disulfide	U	U	0.5		1	08/22/12 17:08	TO-15/E3 QA230
Carbon Tetrachloride	U	U	0.5		1	08/22/12 17:08	TO-15/E3 QA230
Chlorobenzene	U	U	0.5		1	08/22/12 17:08	TO-15/E3 QA230
Chloroethane	U	U	0.5		1	08/22/12 17:08	TO-15/E3 QA230
Chloroform	U	U	0.5		1	08/22/12 17:08	TO-15/E3 QA230
Chloromethane	1.6	0.8	0.5		1	08/22/12 17:08	TO-15/E3 QA230
Dibromochloromethane	U	U	0.5		1	08/22/12 17:08	TO-15/E3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	08/22/12 17:08	TO-15/E3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	08/22/12 17:08	TO-15/E3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	08/22/12 17:08	TO-15/E3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	08/22/12 17:08	TO-15/E3 QA230
Dichlorodifluoroethane	3.6	0.7	0.5		1	08/22/12 17:08	TO-15/E3 QA230
1,1-Dichloroethane	U	U	0.5		1	08/22/12 17:08	TO-15/E3 QA230
1,2-Dichloroethane	U	U	0.5		1	08/22/12 17:08	TO-15/E3 QA230
1,1-Dichloroethene	U	U	0.5		1	08/22/12 17:08	TO-15/E3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	08/22/12 17:08	TO-15/E3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	08/22/12 17:08	TO-15/E3 QA230
1,2-Dichloropropane	U	U	0.5		1	08/22/12 17:08	TO-15/E3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	08/22/12 17:08	TO-15/E3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	08/22/12 17:08	TO-15/E3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	08/22/12 17:08	TO-15/E3 QA230
Ethanol	18.2	9.6	0.5		1	08/22/12 17:08	TO-15/E3 QA230
Ethylbenzene	U	U	0.5		1	08/22/12 17:08	TO-15/E3 QA230
Heon.113	U	U	0.5		1	08/22/12 17:08	TO-15/E3 QA230
Hexachlorobutadiene	U	U	0.5		1	08/22/12 17:08	TO-15/E3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	08/22/12 17:08	TO-15/E3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	08/22/12 17:08	TO-15/E3 QA230
Methylene Chloride	1.5	0.4	0.5	J	1	08/22/12 17:08	TO-15/E3 QA230
Naphthalene	U	U	0.5		1	08/22/12 17:08	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-081312-1	Lab ID: 1208014-06
Sample Matrix: Air	Date Collected: 08/13/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifies	Dilution	Analysed	Method/SCDF
Propylene	U	U	0.5		1	08/22/12 17:08	TO-15/ES QA230
Styrene	U	U	0.5		1	08/22/12 17:08	TO-15/ES QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	08/22/12 17:08	TO-15/ES QA230
Tetrachloroethene	U	U	0.5		1	08/22/12 17:08	TO-15/ES QA230
Toluene	6.0	1.6	0.5		1	08/22/12 17:08	TO-15/ES QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	08/22/12 17:08	TO-15/ES QA230
1,1,1-Trichloroethane	U	U	0.5		1	08/22/12 17:08	TO-15/ES QA230
1,1,2-Trichloroethane	U	U	0.5		1	08/22/12 17:08	TO-15/ES QA230
Trichloroethene	U	U	0.5		1	08/22/12 17:08	TO-15/ES QA230
Trichlorofluoromethane	1.8	0.3	0.5	J	1	08/22/12 17:08	TO-15/ES QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	08/22/12 17:08	TO-15/ES QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	08/22/12 17:08	TO-15/ES QA230
Vinyl chloride	U	U	0.5		1	08/22/12 17:08	TO-15/ES QA230
m,p-Xylene	U	U	1.0		1	08/22/12 17:08	TO-15/ES QA230
o-Xylene	U	U	0.5		1	08/22/12 17:08	TO-15/ES QA230

Surrogates

Analyte	Result ppbv	Flag Qualifies	%Recovery	Limit	Prepared	Analysed	Method/SCDF
<i>Surrogate: Bromofluorobenzene</i>	9.96		100 %	80-120	08/22/12	08/22/12 17:08	TO-15/ES QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-081312-2	Lab ID: 1208014-07
Sample Matrix: Air	Date Collected: 08/13/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualities	Dilution	Analysis	Method/SCM
Benzene	1.1	0.4	0.5	J	1	08/22/12 17:51	TO-15/RS Q4230
Benzyl chloride	U	U	0.5		1	08/22/12 17:51	TO-15/RS Q4230
Bromodichloromethane	U	U	0.5		1	08/22/12 17:51	TO-15/RS Q4230
Bromofom	U	U	0.5		1	08/22/12 17:51	TO-15/RS Q4230
Bromomethane	U	U	0.5		1	08/22/12 17:51	TO-15/RS Q4230
1,3-Butadiene	U	U	0.5		1	08/22/12 17:51	TO-15/RS Q4230
2-Butanone	1.0	0.3	0.5	J	1	08/22/12 17:51	TO-15/RS Q4230
Carbon disulfide	U	U	0.5		1	08/22/12 17:51	TO-15/RS Q4230
Carbon Tetrachloride	U	U	0.5		1	08/22/12 17:51	TO-15/RS Q4230
Chlorobenzene	U	U	0.5		1	08/22/12 17:51	TO-15/RS Q4230
Chloroethane	U	U	0.5		1	08/22/12 17:51	TO-15/RS Q4230
Chloroform	U	U	0.5		1	08/22/12 17:51	TO-15/RS Q4230
Chloromethane	1.8	0.9	0.5		1	08/22/12 17:51	TO-15/RS Q4230
Dibromochloromethane	U	U	0.5		1	08/22/12 17:51	TO-15/RS Q4230
1,2-Dibromoethane (EDB)	U	U	0.5		1	08/22/12 17:51	TO-15/RS Q4230
1,2-Dichlorobenzene	U	U	0.5		1	08/22/12 17:51	TO-15/RS Q4230
1,3-Dichlorobenzene	U	U	0.5		1	08/22/12 17:51	TO-15/RS Q4230
1,4-Dichlorobenzene	U	U	0.5		1	08/22/12 17:51	TO-15/RS Q4230
Dichlorodifluoromethane	3.5	0.7	0.5		1	08/22/12 17:51	TO-15/RS Q4230
1,1-Dichloroethane	U	U	0.5		1	08/22/12 17:51	TO-15/RS Q4230
1,2-Dichloroethane	U	U	0.5		1	08/22/12 17:51	TO-15/RS Q4230
1,1-Dichloroethene	U	U	0.5		1	08/22/12 17:51	TO-15/RS Q4230
cis-1,2-Dichloroethane	U	U	0.5		1	08/22/12 17:51	TO-15/RS Q4230
trans-1,2-Dichloroethane	U	U	0.5		1	08/22/12 17:51	TO-15/RS Q4230
1,2-Dichloropropane	U	U	0.5		1	08/22/12 17:51	TO-15/RS Q4230
cis-1,3-Dichloropropene	U	U	0.5		1	08/22/12 17:51	TO-15/RS Q4230
trans-1,3-Dichloropropene	U	U	0.5		1	08/22/12 17:51	TO-15/RS Q4230
Dichlorotetrafluoroethane	U	U	0.5		1	08/22/12 17:51	TO-15/RS Q4230
Ethanol	14.2	7.4	0.5		1	08/22/12 17:51	TO-15/RS Q4230
Ethylbenzene	U	U	0.5		1	08/22/12 17:51	TO-15/RS Q4230
Ethylene	U	U	0.5		1	08/22/12 17:51	TO-15/RS Q4230
Hexachlorobutadiene	U	U	0.5		1	08/22/12 17:51	TO-15/RS Q4230
Methyl tert-Butyl Ether	U	U	0.5		1	08/22/12 17:51	TO-15/RS Q4230
4-Methyl-2-pentanone	U	U	0.5		1	08/22/12 17:51	TO-15/RS Q4230
Methylene Chloride	1.4	0.4	0.5	J	1	08/22/12 17:51	TO-15/RS Q4230
Naphthalene	U	U	0.5		1	08/22/12 17:51	TO-15/RS Q4230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-081312-2	Lab ID: 1208014-07
Sample Matrix: Air	Date Collected: 08/13/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/DOE#
Propylene	U	U	0.5		1	08/22/12 17:51	TO-15/RS QA230
Styrene	U	U	0.5		1	08/22/12 17:51	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	08/22/12 17:51	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	08/22/12 17:51	TO-15/RS QA230
Toluene	24.6	6.5	0.5		1	08/22/12 17:51	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	08/22/12 17:51	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	08/22/12 17:51	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	08/22/12 17:51	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	08/22/12 17:51	TO-15/RS QA230
Trichlorofluoromethane	1.8	0.3	0.5	J	1	08/22/12 17:51	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	08/22/12 17:51	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	08/22/12 17:51	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	08/22/12 17:51	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	08/22/12 17:51	TO-15/RS QA230
o-Xylene	U	U	0.5		1	08/22/12 17:51	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	Limit	Prepared	Analysed	Method/DOE#
<i>Surrogate: Bromofluorobenzene</i>	9.86		99%	80-120	08/22/12	08/22/12 17:51	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-081312-2C0	Lab ID: 1208014-08
Sample Matrix: Air	Date Collected: 08/13/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/SCM
Benzene	1.4	0.4	0.5	J	1	08/22/12 18:34	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
Bromoform	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
Bromoethane	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
2-Butanone	0.8	0.3	0.5	J	1	08/22/12 18:34	TO-15/RS QA230
Carbon disulfide	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
Chloroethane	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
Chloroform	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
Chloromethane	1.8	0.8	0.5		1	08/22/12 18:34	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
Dichlorodifluoromethane	3.7	0.7	0.5		1	08/22/12 18:34	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
cis-1,2-Dichloroethane	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
trans-1,2-Dichloroethane	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
1,2-Dichloropropene	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
Ethanol	25.6	13.4	0.5		1	08/22/12 18:34	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
Heon 113	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
Methylene Chloride	0.9	0.3	0.5	J	1	08/22/12 18:34	TO-15/RS QA230
Naphthalene	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-081312-2C0	Lab ID: 1208014-08
Sample Matrix: Air	Date Collected: 08/13/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
Styrene	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
Toluene	10.9	2.9	0.5		1	08/22/12 18:34	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
Trichlorofluoromethane	1.9	0.3	0.5	J	1	08/22/12 18:34	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230
m,p-Xylene	1.1	0.3	1.0	J	1	08/22/12 18:34	TO-15/RS QA230
o-Xylene	U	U	0.5		1	08/22/12 18:34	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.98		100 %	<i>80-120</i>	08/22/12	08/22/12 18:34	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-081312-3	Lab ID: 1208014-09
Sample Matrix: Air	Date Collected: 08/13/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/SDP#
Benzene	1.0	0.3	0.5	J	1	08/22/12 19:17	TO-15/E3 QA230
Benzyl chloride	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
Bromodichloromethane	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
Bromoform	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
Bromomethane	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
1,3-Butadiene	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
2-Butanone	0.9	0.3	0.5	J	1	08/22/12 19:17	TO-15/E3 QA230
Carbon disulfide	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
Carbon Tetrachloride	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
Chlorobenzene	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
Chloroethane	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
Chloroform	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
Chloromethane	1.7	0.8	0.5		1	08/22/12 19:17	TO-15/E3 QA230
Dibromochloromethane	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
Dichlorodifluoromethane	3.6	0.7	0.5		1	08/22/12 19:17	TO-15/E3 QA230
1,1-Dichloroethane	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
1,2-Dichloroethane	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
1,1-Dichloroethene	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
cis-1,2-Dichloroethane	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
trans-1,2-Dichloroethane	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
1,2-Dichloropropane	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
cis-1,3-Dichloropropane	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
trans-1,3-Dichloropropane	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
Ethanol	10.1	5.3	0.5		1	08/22/12 19:17	TO-15/E3 QA230
Ethylbenzene	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
Freon 113	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
Hexachlorobutadiene	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
Methylene Chloride	1.3	0.4	0.5	J	1	08/22/12 19:17	TO-15/E3 QA230
Naphthalene	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5390



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-081312-3	Lab ID: 1208014-09
Sample Matrix: Air	Date Collected: 08/13/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF#
Propylene	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
Styrene	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
Tetrachloroethene	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
Toluene	181	4.8	0.5		1	08/22/12 19:17	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
Trichloroethene	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
Trichlorofluoromethane	1.9	0.3	0.5	J	1	08/22/12 19:17	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	08/22/12 19:17	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	08/22/12 19:17	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery Limit	Expanded	Analysed	Method/SCDF#	
<i>Surrogate: Bromofluorobenzene</i>	9.85		96%	80-120	08/22/12	08/22/12 19:17	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5390



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-081312	Lab ID: 1208014-10
Sample Matrix: Air	Date Collected: 08/13/2012

**Volatile Organic Compounds
 Targets**

Analyte	Es-ult µg/m ³	Es-ult ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDW
Benzene	1.1	0.3	0.5	J	1	08/22/12 20:01	TO-15/R3 QA230
Benzyl chloride	U	U	0.5		1	08/22/12 20:01	TO-15/R3 QA230
Bromodichloromethane	U	U	0.5		1	08/22/12 20:01	TO-15/R3 QA230
Bromofom	U	U	0.5		1	08/22/12 20:01	TO-15/R3 QA230
Bromomethane	U	U	0.5		1	08/22/12 20:01	TO-15/R3 QA230
1,3-Butadiene	U	U	0.5		1	08/22/12 20:01	TO-15/R3 QA230
2-Butanone	1.0	0.3	0.5	J	1	08/22/12 20:01	TO-15/R3 QA230
Carbon disulfide	U	U	0.5		1	08/22/12 20:01	TO-15/R3 QA230
Carbon Tetrachloride	U	U	0.5		1	08/22/12 20:01	TO-15/R3 QA230
Chlorobenzene	U	U	0.5		1	08/22/12 20:01	TO-15/R3 QA230
Chloroethane	U	U	0.5		1	08/22/12 20:01	TO-15/R3 QA230
Chloroform	U	U	0.5		1	08/22/12 20:01	TO-15/R3 QA230
Chloromethane	1.7	0.8	0.5		1	08/22/12 20:01	TO-15/R3 QA230
Dibromochloromethane	U	U	0.5		1	08/22/12 20:01	TO-15/R3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	08/22/12 20:01	TO-15/R3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	08/22/12 20:01	TO-15/R3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	08/22/12 20:01	TO-15/R3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	08/22/12 20:01	TO-15/R3 QA230
Dichlorodifluoromethane	3.8	0.8	0.5		1	08/22/12 20:01	TO-15/R3 QA230
1,1-Dichloroethane	U	U	0.5		1	08/22/12 20:01	TO-15/R3 QA230
1,2-Dichloroethane	U	U	0.5		1	08/22/12 20:01	TO-15/R3 QA230
1,1-Dichloroethene	U	U	0.5		1	08/22/12 20:01	TO-15/R3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	08/22/12 20:01	TO-15/R3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	08/22/12 20:01	TO-15/R3 QA230
1,2-Dichloropropene	U	U	0.5		1	08/22/12 20:01	TO-15/R3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	08/22/12 20:01	TO-15/R3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	08/22/12 20:01	TO-15/R3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	08/22/12 20:01	TO-15/R3 QA230
Ethanol	179	94	0.5		1	08/22/12 20:01	TO-15/R3 QA230
Ethylbenzene	U	U	0.5		1	08/22/12 20:01	TO-15/R3 QA230
Freon 113	U	U	0.5		1	08/22/12 20:01	TO-15/R3 QA230
Hexachlorobutadiene	U	U	0.5		1	08/22/12 20:01	TO-15/R3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	08/22/12 20:01	TO-15/R3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	08/22/12 20:01	TO-15/R3 QA230
Methylene Chloride	2.0	0.6	0.5		1	08/22/12 20:01	TO-15/R3 QA230
Naphthalene	U	U	0.5		1	08/22/12 20:01	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-081312	Lab ID: 1208014-10
Sample Matrix: Air	Date Collected: 08/13/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM
Propylene	U	U	0.5		1	08/22/12 20:01	TO-15/RS QA230
Styrene	U	U	0.5		1	08/22/12 20:01	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	08/22/12 20:01	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	08/22/12 20:01	TO-15/RS QA230
Toluene	4.8	1.3	0.5		1	08/22/12 20:01	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	08/22/12 20:01	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	08/22/12 20:01	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	08/22/12 20:01	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	08/22/12 20:01	TO-15/RS QA230
Trichlorofluoromethane	2.0	0.4	0.5	J	1	08/22/12 20:01	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	08/22/12 20:01	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	08/22/12 20:01	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	08/22/12 20:01	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	08/22/12 20:01	TO-15/RS QA230
o-Xylene	U	U	0.5		1	08/22/12 20:01	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Accuracy Limit	Expanded	Analysed	Method/SCM
<i>Surrogate: Bromofluorobenzene</i>	9.92		99%	80-120	08/22/12	08/22/12 20:01	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-082212-2C0	Lab ID: 1208014-11
Sample Matrix: Air	Date Collected: 08/22/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF
Benzene	1.3	0.4	0.5	J	1	090712 15:56	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	090712 15:56	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	090712 15:56	TO-15/RS QA230
Bromoforn	U	U	0.5		1	090712 15:56	TO-15/RS QA230
Bromomethane	U	U	0.5		1	090712 15:56	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	090712 15:56	TO-15/RS QA230
2-Butanone	1.2	0.4	0.5	J	1	090712 15:56	TO-15/RS QA230
Carbon disulfide	U	U	0.5		1	090712 15:56	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	090712 15:56	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	090712 15:56	TO-15/RS QA230
Chloroethane	U	U	0.5		1	090712 15:56	TO-15/RS QA230
Chloroform	U	U	0.5		1	090712 15:56	TO-15/RS QA230
Chloromethane	1.2	0.6	0.5		1	090712 15:56	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	090712 15:56	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	090712 15:56	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	090712 15:56	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	090712 15:56	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	090712 15:56	TO-15/RS QA230
Dichlorodifluoromethane	2.6	0.5	0.5		1	090712 15:56	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	090712 15:56	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	090712 15:56	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	090712 15:56	TO-15/RS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	090712 15:56	TO-15/RS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	090712 15:56	TO-15/RS QA230
1,2-Dichloropropene	U	U	0.5		1	090712 15:56	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	090712 15:56	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	090712 15:56	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	090712 15:56	TO-15/RS QA230
Ethanol	7.5	3.9	0.5		1	090712 15:56	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	090712 15:56	TO-15/RS QA230
Heon 113	U	U	0.5		1	090712 15:56	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	090712 15:56	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	090712 15:56	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	090712 15:56	TO-15/RS QA230
Methylene Chloride	0.6	0.2	0.5	J	1	090712 15:56	TO-15/RS QA230
Naphthalene	U	U	0.5		1	090712 15:56	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA
Station ID: BRIG-VOC-082212-2C0
Sample Matrix: Air

Project #: NSF 615
Lab ID: 1208014-11
Date Collected: 08/22/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifiers	Dilution	Analysed	Method/SCDH
Propylene	U	U	0.5		1	09/07/12 15:56	TO-15/E3 QA230
Styrene	U	U	0.5		1	09/07/12 15:56	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	09/07/12 15:56	TO-15/E3 QA230
Tetrachloroethene	U	U	0.5		1	09/07/12 15:56	TO-15/E3 QA230
Toluene	5.3	1.4	0.5		1	09/07/12 15:56	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	09/07/12 15:56	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	09/07/12 15:56	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	09/07/12 15:56	TO-15/E3 QA230
Trichloroethene	U	U	0.5		1	09/07/12 15:56	TO-15/E3 QA230
Trichlorofluoromethane	1.4	0.2	0.5	J	1	09/07/12 15:56	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	09/07/12 15:56	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	09/07/12 15:56	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	09/07/12 15:56	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	09/07/12 15:56	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	09/07/12 15:56	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifiers	%Recovery	%Recovery Limits	Prepared	Analysed	Method/SCDH
<i>Surrogate: Bromofluorobenzene</i>	9.55		96%	80-120	09/07/12	09/07/12 15:56	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-082212-3	Lab ID: 1208014-12
Sample Matrix: Air	Date Collected: 08/22/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/CEM
Benzene	1.0	0.3	0.5	J	1	090712 1009	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	090712 1009	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	090712 1009	TO-15/RS QA230
Bromoform	U	U	0.5		1	090712 1009	TO-15/RS QA230
Bromoacetylene	U	U	0.5		1	090712 1009	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	090712 1009	TO-15/RS QA230
2-Butanone	1.1	0.4	0.5	J	1	090712 1009	TO-15/RS QA230
Carbon disulfide	U	U	0.5		1	090712 1009	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	090712 1009	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	090712 1009	TO-15/RS QA230
Chloroethane	U	U	0.5		1	090712 1009	TO-15/RS QA230
Chloroform	U	U	0.5		1	090712 1009	TO-15/RS QA230
Chloroethane	1.2	0.6	0.5		1	090712 1009	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	090712 1009	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	090712 1009	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	090712 1009	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	090712 1009	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	090712 1009	TO-15/RS QA230
Dichlorodifluoromethane	2.5	0.5	0.5		1	090712 1009	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	090712 1009	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	090712 1009	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	090712 1009	TO-15/RS QA230
cis-1,2-Dichloroethane	U	U	0.5		1	090712 1009	TO-15/RS QA230
trans-1,2-Dichloroethane	U	U	0.5		1	090712 1009	TO-15/RS QA230
1,2-Dichloropropene	U	U	0.5		1	090712 1009	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	090712 1009	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	090712 1009	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	090712 1009	TO-15/RS QA230
Ethanol	9.6	5.1	0.5		1	090712 1009	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	090712 1009	TO-15/RS QA230
Heon 113	U	U	0.5		1	090712 1009	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	090712 1009	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	090712 1009	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	090712 1009	TO-15/RS QA230
Methylene Chloride	0.6	0.2	0.5	J	1	090712 1009	TO-15/RS QA230
Naphthalene	U	U	0.5		1	090712 1009	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-082212-3	Lab ID: 1208014-12
Sample Matrix: Air	Date Collected: 08/22/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifies	Dilution	Analysed	Method/CE#
Propylene	U	U	0.5		1	09/07/12 10:09	TO-15/RS QA230
Styrene	U	U	0.5		1	09/07/12 10:09	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	09/07/12 10:09	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	09/07/12 10:09	TO-15/RS QA230
Toluene	3.0	0.8	0.5		1	09/07/12 10:09	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	09/07/12 10:09	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	09/07/12 10:09	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	09/07/12 10:09	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	09/07/12 10:09	TO-15/RS QA230
Trichlorofluoromethane	1.4	0.2	0.5	J	1	09/07/12 10:09	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	09/07/12 10:09	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	09/07/12 10:09	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	09/07/12 10:09	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	09/07/12 10:09	TO-15/RS QA230
o-Xylene	U	U	0.5		1	09/07/12 10:09	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifies	%Recovery	%Recovery Limit	Expanded	Analysed	Method/CE#
<i>Surrogate: Bromofluorobenzene</i>	9.74		97%	80-120	0907012	09/07/12 10:09	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-082512-2	Lab ID: 1208014-13
Sample Matrix: Air	Date Collected: 08/25/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/SCDW
Benzene	1.6	0.5	0.5		1	090712 10:53	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	090712 10:53	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	090712 10:53	TO-15/RS QA230
Bromoform	U	U	0.5		1	090712 10:53	TO-15/RS QA230
Bromomethane	U	U	0.5		1	090712 10:53	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	090712 10:53	TO-15/RS QA230
2-Butanone	1.6	0.5	0.5		1	090712 10:53	TO-15/RS QA230
Carbon disulfide	U	U	0.5		1	090712 10:53	TO-15/RS QA230
Carbon Tetrachloride	1.0	0.2	0.5	J	1	090712 10:53	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	090712 10:53	TO-15/RS QA230
Chloroethane	U	U	0.5		1	090712 10:53	TO-15/RS QA230
Chloroform	U	U	0.5		1	090712 10:53	TO-15/RS QA230
Chloromethane	1.3	0.6	0.5		1	090712 10:53	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	090712 10:53	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	090712 10:53	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	090712 10:53	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	090712 10:53	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	090712 10:53	TO-15/RS QA230
Dichlorodifluoromethane	3.0	0.6	0.5		1	090712 10:53	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	090712 10:53	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	090712 10:53	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	090712 10:53	TO-15/RS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	090712 10:53	TO-15/RS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	090712 10:53	TO-15/RS QA230
1,2-Dichloropropane	U	U	0.5		1	090712 10:53	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	090712 10:53	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	090712 10:53	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	090712 10:53	TO-15/RS QA230
Ethanol	163	8.6	0.5		1	090712 10:53	TO-15/RS QA230
Ethylbenzene	0.7	0.2	0.5	J	1	090712 10:53	TO-15/RS QA230
Eron 113	1.2	0.2	0.5	J	1	090712 10:53	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	090712 10:53	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	090712 10:53	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	090712 10:53	TO-15/RS QA230
Methylene Chloride	0.8	0.2	0.5	J	1	090712 10:53	TO-15/RS QA230

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-082512-2	Lab ID: 1208014-13
Sample Matrix: Air	Date Collected: 08/25/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SC#
Naphthalene	U	U	0.5		1	09/07/12 10:53	TO-15/E3 QA230
Propylene	U	U	0.5		1	09/07/12 10:53	TO-15/E3 QA230
Styrene	0.9	0.2	0.5	J	1	09/07/12 10:53	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	09/07/12 10:53	TO-15/E3 QA230
Tetrachloroethene	U	U	0.5		1	09/07/12 10:53	TO-15/E3 QA230
Toluene	37.6	9.9	0.5		1	09/07/12 10:53	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	09/07/12 10:53	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	09/07/12 10:53	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	09/07/12 10:53	TO-15/E3 QA230
Trichloroethene	U	U	0.5		1	09/07/12 10:53	TO-15/E3 QA230
Trichlorofluoromethane	1.8	0.3	0.5	J	1	09/07/12 10:53	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	09/07/12 10:53	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	09/07/12 10:53	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	09/07/12 10:53	TO-15/E3 QA230
m,p-Xylene	2.4	0.5	1.0	J	1	09/07/12 10:53	TO-15/E3 QA230
o-Xylene	0.9	0.2	0.5	J	1	09/07/12 10:53	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Prepared	Analysed	Method/SC#
Surrogate: Bromofluorobenzene	9.81		98%	80-120	09/07/12	09/07/12 10:53	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-082512-3	Lab ID: 1208014-14
Sample Matrix: Air	Date Collected: 08/25/2012

Volatile Organic Compounds
 Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifies	Dilution	Analysed	Method/SCM#
Benzene	1.5	0.5	0.5		1	09/07/12 11:36	TO-15/E3 QA230
Benzyl chloride	U	U	0.5		1	09/07/12 11:36	TO-15/E3 QA230
Bromodichloromethane	U	U	0.5		1	09/07/12 11:36	TO-15/E3 QA230
Bromofom	U	U	0.5		1	09/07/12 11:36	TO-15/E3 QA230
Bromomethane	U	U	0.5		1	09/07/12 11:36	TO-15/E3 QA230
1,3-Butadiene	U	U	0.5		1	09/07/12 11:36	TO-15/E3 QA230
2-Butanone	1.5	0.5	0.5		1	09/07/12 11:36	TO-15/E3 QA230
Carbonyl sulfide	U	U	0.5		1	09/07/12 11:36	TO-15/E3 QA230
Carbon Tetrachloride	U	U	0.5		1	09/07/12 11:36	TO-15/E3 QA230
Chlorobenzene	U	U	0.5		1	09/07/12 11:36	TO-15/E3 QA230
Chloroethane	U	U	0.5		1	09/07/12 11:36	TO-15/E3 QA230
Chlorofom	U	U	0.5		1	09/07/12 11:36	TO-15/E3 QA230
Chloromethane	1.2	0.6	0.5		1	09/07/12 11:36	TO-15/E3 QA230
Dibromochloromethane	U	U	0.5		1	09/07/12 11:36	TO-15/E3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	09/07/12 11:36	TO-15/E3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	09/07/12 11:36	TO-15/E3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	09/07/12 11:36	TO-15/E3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	09/07/12 11:36	TO-15/E3 QA230
Dichlorodifluoromethane	2.8	0.6	0.5		1	09/07/12 11:36	TO-15/E3 QA230
1,1-Dichloroethane	U	U	0.5		1	09/07/12 11:36	TO-15/E3 QA230
1,2-Dichloroethane	U	U	0.5		1	09/07/12 11:36	TO-15/E3 QA230
1,1-Dichloroethene	U	U	0.5		1	09/07/12 11:36	TO-15/E3 QA230
cis-1,2-Dichloroethane	U	U	0.5		1	09/07/12 11:36	TO-15/E3 QA230
trans-1,2-Dichloroethane	U	U	0.5		1	09/07/12 11:36	TO-15/E3 QA230
1,2-Dichloropropane	U	U	0.5		1	09/07/12 11:36	TO-15/E3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	09/07/12 11:36	TO-15/E3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	09/07/12 11:36	TO-15/E3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	09/07/12 11:36	TO-15/E3 QA230
Ethanol	20.0	10.5	0.5		1	09/07/12 11:36	TO-15/E3 QA230
Ethylbenzene	U	U	0.5		1	09/07/12 11:36	TO-15/E3 QA230
Heon 113	U	U	0.5		1	09/07/12 11:36	TO-15/E3 QA230
Hexachlorobutadiene	U	U	0.5		1	09/07/12 11:36	TO-15/E3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	09/07/12 11:36	TO-15/E3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	09/07/12 11:36	TO-15/E3 QA230
Methylene Chloride	0.6	0.2	0.5	J	1	09/07/12 11:36	TO-15/E3 QA230
Naphthalene	U	U	0.5		1	09/07/12 11:36	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-082512-3	Lab ID: 1208014-14
Sample Matrix: Air	Date Collected: 08/25/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	09/07/12 11:36	TO-15/RS QA230
Styrene	U	U	0.5		1	09/07/12 11:36	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	09/07/12 11:36	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	09/07/12 11:36	TO-15/RS QA230
Toluene	28.7	7.6	0.5		1	09/07/12 11:36	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	09/07/12 11:36	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	09/07/12 11:36	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	09/07/12 11:36	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	09/07/12 11:36	TO-15/RS QA230
Trichlorofluoromethane	1.5	0.3	0.5	J	1	09/07/12 11:36	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	09/07/12 11:36	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	09/07/12 11:36	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	09/07/12 11:36	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	09/07/12 11:36	TO-15/RS QA230
o-Xylene	U	U	0.5		1	09/07/12 11:36	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.70		97%	80-120	09/07/12	09/07/12 11:36	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-082812-1	Lab ID: 1208014-15
Sample Matrix: Air	Date Collected: 08/28/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Benzene	2.3	0.7	0.5		1	09/07/12 12:20	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	09/07/12 12:20	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	09/07/12 12:20	TO-15/RS QA230
Bromofom	U	U	0.5		1	09/07/12 12:20	TO-15/RS QA230
Bromomethane	U	U	0.5		1	09/07/12 12:20	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	09/07/12 12:20	TO-15/RS QA230
2-Butanone	1.3	0.4	0.5	J	1	09/07/12 12:20	TO-15/RS QA230
Carbon disulfide	U	U	0.5		1	09/07/12 12:20	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	09/07/12 12:20	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	09/07/12 12:20	TO-15/RS QA230
Chloroethane	U	U	0.5		1	09/07/12 12:20	TO-15/RS QA230
Chloroform	U	U	0.5		1	09/07/12 12:20	TO-15/RS QA230
Chloromethane	1.4	0.7	0.5		1	09/07/12 12:20	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	09/07/12 12:20	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	09/07/12 12:20	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	09/07/12 12:20	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	09/07/12 12:20	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	09/07/12 12:20	TO-15/RS QA230
Dichlorodifluoromethane	3.0	0.6	0.5		1	09/07/12 12:20	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	09/07/12 12:20	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	09/07/12 12:20	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	09/07/12 12:20	TO-15/RS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	09/07/12 12:20	TO-15/RS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	09/07/12 12:20	TO-15/RS QA230
1,2-Dichloropropane	U	U	0.5		1	09/07/12 12:20	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	09/07/12 12:20	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	09/07/12 12:20	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	09/07/12 12:20	TO-15/RS QA230
Ethanol	26.5	14.0	0.5		1	09/07/12 12:20	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	09/07/12 12:20	TO-15/RS QA230
Freon 113	U	U	0.5		1	09/07/12 12:20	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	09/07/12 12:20	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	09/07/12 12:20	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	09/07/12 12:20	TO-15/RS QA230
Methylene Chloride	0.6	0.2	0.5	J	1	09/07/12 12:20	TO-15/RS QA230
Naphthalene	U	U	0.5		1	09/07/12 12:20	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-082812-1	Lab ID: 1208014-15
Sample Matrix: Air	Date Collected: 08/28/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifies	Dilution	Analysed	Method/QC#
Propylene	U	U	0.5		1	09/07/12 12:20	TO-15/R3 QA230
Styrene	1.1	0.2	0.5	J	1	09/07/12 12:20	TO-15/R3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	09/07/12 12:20	TO-15/R3 QA230
Tetrachloroethene	U	U	0.5		1	09/07/12 12:20	TO-15/R3 QA230
Toluene	71.0	18.7	0.5		1	09/07/12 12:20	TO-15/R3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	09/07/12 12:20	TO-15/R3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	09/07/12 12:20	TO-15/R3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	09/07/12 12:20	TO-15/R3 QA230
Trichloroethene	U	U	0.5		1	09/07/12 12:20	TO-15/R3 QA230
Trichlorofluoromethane	1.6	0.3	0.5	J	1	09/07/12 12:20	TO-15/R3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	09/07/12 12:20	TO-15/R3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	09/07/12 12:20	TO-15/R3 QA230
Vinyl chloride	U	U	0.5		1	09/07/12 12:20	TO-15/R3 QA230
m,p-Xylene	U	U	1.0		1	09/07/12 12:20	TO-15/R3 QA230
o-Xylene	U	U	0.5		1	09/07/12 12:20	TO-15/R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifies	%Recovery Limit	Expanded	Analysed	Method/QC#
Surrogate: Bromofluorobenzene	10.0		100 % 80-120	09/07/12	09/07/12 12:20	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



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Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-082812-2	Lab ID: 1208014-16
Sample Matrix: Air	Date Collected: 08/28/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/SCM
Benzene	1.7	0.5	0.5		1	090712 1304	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	090712 1304	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	090712 1304	TO-15/RS QA230
Bromofom	U	U	0.5		1	090712 1304	TO-15/RS QA230
Bromomethane	U	U	0.5		1	090712 1304	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	090712 1304	TO-15/RS QA230
2-Butanone	1.0	0.4	0.5	J	1	090712 1304	TO-15/RS QA230
Carbon disulfide	U	U	0.5		1	090712 1304	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	090712 1304	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	090712 1304	TO-15/RS QA230
Chloroethane	U	U	0.5		1	090712 1304	TO-15/RS QA230
Chloroform	U	U	0.5		1	090712 1304	TO-15/RS QA230
Chloromethane	1.2	0.6	0.5		1	090712 1304	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	090712 1304	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	090712 1304	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	090712 1304	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	090712 1304	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	090712 1304	TO-15/RS QA230
Dichlorodifluoromethane	2.6	0.5	0.5		1	090712 1304	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	090712 1304	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	090712 1304	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	090712 1304	TO-15/RS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	090712 1304	TO-15/RS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	090712 1304	TO-15/RS QA230
1,2-Dichloropropene	U	U	0.5		1	090712 1304	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	090712 1304	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	090712 1304	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	090712 1304	TO-15/RS QA230
Ethanol	331	17.4	0.5		1	090712 1304	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	090712 1304	TO-15/RS QA230
Heon 113	U	U	0.5		1	090712 1304	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	090712 1304	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	090712 1304	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	090712 1304	TO-15/RS QA230
Methylene Chloride	0.6	0.2	0.5	J	1	090712 1304	TO-15/RS QA230
Naphthalene	U	U	0.5		1	090712 1304	TO-15/RS QA230

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 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-082812-2	Lab ID: 1208014-16
Sample Matrix: Air	Date Collected: 08/28/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	09/07/12 13:04	TO-15/RS QA230
Styrene	U	U	0.5		1	09/07/12 13:04	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	09/07/12 13:04	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	09/07/12 13:04	TO-15/RS QA230
Toluene	14.7	39	0.5		1	09/07/12 13:04	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	09/07/12 13:04	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	09/07/12 13:04	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	09/07/12 13:04	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	09/07/12 13:04	TO-15/RS QA230
Trichlorofluoromethane	1.4	0.2	0.5	J	1	09/07/12 13:04	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	09/07/12 13:04	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	09/07/12 13:04	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	09/07/12 13:04	TO-15/RS QA230
m,p-Xylene	1.7	0.4	1.0	J	1	09/07/12 13:04	TO-15/RS QA230
o-Xylene	U	U	0.5		1	09/07/12 13:04	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery Limit	Expanded	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.65		96 % 80-120	0907/12	09/07/12 13:04	TO-15/RS QA230

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 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-082812-2C0	Lab ID: 1208014-17
Sample Matrix: Air	Date Collected: 08/28/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM
Benzene	0.8	0.2	0.5	J	1	09/07/12 13:47	TO-15/R3 QA230
Benzyl chloride	U	U	0.5		1	09/07/12 13:47	TO-15/R3 QA230
Bromodichloroethane	U	U	0.5		1	09/07/12 13:47	TO-15/R3 QA230
Bromoform	U	U	0.5		1	09/07/12 13:47	TO-15/R3 QA230
Bromoethane	U	U	0.5		1	09/07/12 13:47	TO-15/R3 QA230
1,3-Butadiene	U	U	0.5		1	09/07/12 13:47	TO-15/R3 QA230
2-Butanone	1.8	0.6	0.5		1	09/07/12 13:47	TO-15/R3 QA230
Carbon disulfide	U	U	0.5		1	09/07/12 13:47	TO-15/R3 QA230
Carbon Tetrachloride	U	U	0.5		1	09/07/12 13:47	TO-15/R3 QA230
Chlorobenzene	U	U	0.5		1	09/07/12 13:47	TO-15/R3 QA230
Chloroethane	U	U	0.5		1	09/07/12 13:47	TO-15/R3 QA230
Chloroform	U	U	0.5		1	09/07/12 13:47	TO-15/R3 QA230
Chloroethane	1.3	0.6	0.5		1	09/07/12 13:47	TO-15/R3 QA230
Dibromochloroethane	U	U	0.5		1	09/07/12 13:47	TO-15/R3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	09/07/12 13:47	TO-15/R3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	09/07/12 13:47	TO-15/R3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	09/07/12 13:47	TO-15/R3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	09/07/12 13:47	TO-15/R3 QA230
Dichlorodifluoromethane	2.7	0.6	0.5		1	09/07/12 13:47	TO-15/R3 QA230
1,1-Dichloroethane	U	U	0.5		1	09/07/12 13:47	TO-15/R3 QA230
1,2-Dichloroethane	U	U	0.5		1	09/07/12 13:47	TO-15/R3 QA230
1,1-Dichloroethene	U	U	0.5		1	09/07/12 13:47	TO-15/R3 QA230
cis-1,2-Dichloroethane	U	U	0.5		1	09/07/12 13:47	TO-15/R3 QA230
trans-1,2-Dichloroethane	U	U	0.5		1	09/07/12 13:47	TO-15/R3 QA230
1,2-Dichloropropane	U	U	0.5		1	09/07/12 13:47	TO-15/R3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	09/07/12 13:47	TO-15/R3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	09/07/12 13:47	TO-15/R3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	09/07/12 13:47	TO-15/R3 QA230
Ethanol	10.0	5.3	0.5		1	09/07/12 13:47	TO-15/R3 QA230
Ethylbenzene	U	U	0.5		1	09/07/12 13:47	TO-15/R3 QA230
Freon 113	U	U	0.5		1	09/07/12 13:47	TO-15/R3 QA230
Hexachlorobutadiene	U	U	0.5		1	09/07/12 13:47	TO-15/R3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	09/07/12 13:47	TO-15/R3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	09/07/12 13:47	TO-15/R3 QA230
Methylene Chloride	0.6	0.2	0.5	J	1	09/07/12 13:47	TO-15/R3 QA230
Naphthalene	U	U	0.5		1	09/07/12 13:47	TO-15/R3 QA230

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
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 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-082812-2C0	Lab ID: 1208014-17
Sample Matrix: Air	Date Collected: 08/28/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	09/07/12 13:47	TO-15/RS QA230
Styrene	U	U	0.5		1	09/07/12 13:47	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	09/07/12 13:47	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	09/07/12 13:47	TO-15/RS QA230
Toluene	189	50	0.5		1	09/07/12 13:47	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	09/07/12 13:47	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	09/07/12 13:47	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	09/07/12 13:47	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	09/07/12 13:47	TO-15/RS QA230
Trichlorofluoromethane	1.5	0.3	0.5	J	1	09/07/12 13:47	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	09/07/12 13:47	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	09/07/12 13:47	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	09/07/12 13:47	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	09/07/12 13:47	TO-15/RS QA230
o-Xylene	U	U	0.5		1	09/07/12 13:47	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	Limit	Expanded	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.71		97%	80-120	0907012	090701213:47	TO-15/RS QA230

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5390



Site Name: Washington Co., PA
Station ID: BRIG-VOC-082812-3
Sample Matrix: Air

Project #: NSF 615
Lab ID: 1208014-18
Date Collected: 08/28/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualities	Dilution	Analysis	Method/SCDW
Benzene	0.7	0.2	0.5	J	1	09/07/12 14:30	TO-15/E3 QA230
Benzyl chloride	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
Bromodichloromethane	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
Bromofom	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
Bromomethane	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
1,3-Butadiene	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
2-Butanone	0.9	0.3	0.5	J	1	09/07/12 14:30	TO-15/E3 QA230
Carbon disulfide	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
Carbon Tetrachloride	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
Chlorobenzene	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
Chloroethane	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
Chloroform	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
Chloromethane	1.2	0.6	0.5		1	09/07/12 14:30	TO-15/E3 QA230
Dibromochloromethane	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
Dichlorodifluoromethane	2.5	0.5	0.5		1	09/07/12 14:30	TO-15/E3 QA230
1,1-Dichloroethane	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
1,2-Dichloroethane	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
1,1-Dichloroethene	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
1,2-Dichloropropane	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
Ethanol	9.0	4.7	0.5		1	09/07/12 14:30	TO-15/E3 QA230
Ethylbenzene	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
Freon 113	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
Hexachlorobutadiene	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
Methylene Chloride	0.6	0.2	0.5	J	1	09/07/12 14:30	TO-15/E3 QA230
Naphthalene	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230

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 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-082812-3	Lab ID: 1208014-18
Sample Matrix: Air	Date Collected: 08/28/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
Styrene	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
Tetrachloroethene	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
Toluene	12.2	3.2	0.5		1	09/07/12 14:30	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
Trichloroethene	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
Trichlorofluoromethane	1.4	0.2	0.5	J	1	09/07/12 14:30	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	09/07/12 14:30	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	09/07/12 14:30	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	Limit	Prepared	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.38		96%	80-120	09/07/12	09/07/12 14:30	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-082812	Lab ID: 1208014-19
Sample Matrix: Air	Date Collected: 08/28/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/SCM
Benzene	1.3	0.4	0.5	J	1	09/07/12 15:13	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	09/07/12 15:13	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	09/07/12 15:13	TO-15/RS QA230
Bromoform	U	U	0.5		1	09/07/12 15:13	TO-15/RS QA230
Bromomethane	U	U	0.5		1	09/07/12 15:13	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	09/07/12 15:13	TO-15/RS QA230
2-Butanone	1.0	0.3	0.5	J	1	09/07/12 15:13	TO-15/RS QA230
Carbon disulfide	U	U	0.5		1	09/07/12 15:13	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	09/07/12 15:13	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	09/07/12 15:13	TO-15/RS QA230
Chloroethane	U	U	0.5		1	09/07/12 15:13	TO-15/RS QA230
Chloroform	U	U	0.5		1	09/07/12 15:13	TO-15/RS QA230
Chloromethane	1.1	0.5	0.5		1	09/07/12 15:13	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	09/07/12 15:13	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	09/07/12 15:13	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	09/07/12 15:13	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	09/07/12 15:13	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	09/07/12 15:13	TO-15/RS QA230
Dichlorodifluoromethane	2.6	0.5	0.5		1	09/07/12 15:13	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	09/07/12 15:13	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	09/07/12 15:13	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	09/07/12 15:13	TO-15/RS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	09/07/12 15:13	TO-15/RS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	09/07/12 15:13	TO-15/RS QA230
1,2-Dichloropropane	U	U	0.5		1	09/07/12 15:13	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	09/07/12 15:13	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	09/07/12 15:13	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	09/07/12 15:13	TO-15/RS QA230
Ethanol	20.0	10.5	0.5		1	09/07/12 15:13	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	09/07/12 15:13	TO-15/RS QA230
Freon 113	U	U	0.5		1	09/07/12 15:13	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	09/07/12 15:13	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	09/07/12 15:13	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	09/07/12 15:13	TO-15/RS QA230
Methylene Chloride	0.6	0.2	0.5	J	1	09/07/12 15:13	TO-15/RS QA230
Naphthalene	U	U	0.5		1	09/07/12 15:13	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5390



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-082812	Lab ID: 1208014-19
Sample Matrix: Air	Date Collected: 08/28/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	09/07/12 15:13	TO-15/E3 QA230
Styrene	U	U	0.5		1	09/07/12 15:13	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	09/07/12 15:13	TO-15/E3 QA230
Tetrachloroethene	U	U	0.5		1	09/07/12 15:13	TO-15/E3 QA230
Toluene	9.1	2.4	0.5		1	09/07/12 15:13	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	09/07/12 15:13	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	09/07/12 15:13	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	09/07/12 15:13	TO-15/E3 QA230
Trichloroethene	U	U	0.5		1	09/07/12 15:13	TO-15/E3 QA230
Trichlorofluoromethane	1.4	0.2	0.5	J	1	09/07/12 15:13	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	09/07/12 15:13	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	09/07/12 15:13	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	09/07/12 15:13	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	09/07/12 15:13	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	09/07/12 15:13	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery Limit	Expanded	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.67		97%	80-120	09/07/12	09/07/12 15:13 TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-083112-1	Lab ID: 1209002-01
Sample Matrix: Air	Date Collected: 08/31/2012

**Volatile Organic Compounds
Targets**

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SCM#
Benzene	0.6		0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
Benzyl chloride	U		0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
Bromodichloromethane	U		0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
Bromofom	U		0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
Bromomethane	U		0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
1,3-Butadiene	U		0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
2-Butanone	1.7		0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
Carbon disulfide	0.3	J	0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
Carbon Tetrachloride	U		0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
Chlorobenzene	U		0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
Chloroethane	U		0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
Chloroform	U		0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
Chloromethane	0.8		0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
Dibromochloromethane	U		0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
1,2-Dibromoethane (EDB)	U		0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
1,2-Dichlorobenzene	U		0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
1,3-Dichlorobenzene	U		0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
1,4-Dichlorobenzene	U		0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
Dichlorodifluoromethane	0.6		0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
1,1-Dichloroethane	U		0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
1,2-Dichloroethane	0.8		0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
1,1-Dichloroethene	U		0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
cis-1,2-Dichloroethane	U		0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
trans-1,2-Dichloroethane	U		0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
1,2-Dichloropropane	U		0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
cis-1,3-Dichloropropene	U		0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
trans-1,3-Dichloropropene	U		0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
Dichlorotetrafluoroethane	U		0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
Ethanol	23.2		1.0	2	09/11/12	09/14/12 15:36	TO-15/R3 QA230
Ethylbenzene	0.5		0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
Heon 113	U		0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
Hexachlorobutadiene	U		0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
Methyl tert-Butyl Ether	U		0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
4-Methyl-2-pentanone	1.2		0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
Methylene Chloride	0.4	J	0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
Naphthalene	U		0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
Propylene	U		0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
Styrene	0.5		0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
1,1,2,2-Tetrachloroethane	U		0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230
Tetrachloroethene	U		0.5	1	09/11/12	09/11/12 15:17	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-083112-1	Lab ID: 1209002-01
Sample Matrix: Air	Date Collected: 08/31/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Elution	Prepared	Analyzed	Method/SCF#
Toluene	15.9		0.5	1	09/11/12	09/11/12 15:17	TO-15R3 QA230
1,2,4-Trichlorobenzene	U		0.5	1	09/11/12	09/11/12 15:17	TO-15R3 QA230
1,1,1-Trichloroethane	U		0.5	1	09/11/12	09/11/12 15:17	TO-15R3 QA230
1,1,2-Trichloroethane	U		0.5	1	09/11/12	09/11/12 15:17	TO-15R3 QA230
Trichloroethene	U		0.5	1	09/11/12	09/11/12 15:17	TO-15R3 QA230
Trichlorofluoromethane	0.3	J	0.5	1	09/11/12	09/11/12 15:17	TO-15R3 QA230
1,2,4-Trimethylbenzene	U		0.5	1	09/11/12	09/11/12 15:17	TO-15R3 QA230
1,3,5-Trimethylbenzene	U		0.5	1	09/11/12	09/11/12 15:17	TO-15R3 QA230
Vinyl chloride	U		0.5	1	09/11/12	09/11/12 15:17	TO-15R3 QA230
m,p-Xylene	1.7		1.0	1	09/11/12	09/11/12 15:17	TO-15R3 QA230
o-Xylene	0.5		0.5	1	09/11/12	09/11/12 15:17	TO-15R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	Limit	Prepared	Analyzed	Method/SCF#
<i>Surrogate: Bromofluorobenzene</i>	9.48		95 %	10-120	09/11/12	09/11/12 15:17	TO-15R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-083112-2C0	Lab ID: 1209002-03
Sample Matrix: Air	Date Collected: 08/31/2012

Volatile Organic Compounds
Targets

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analyzed	Method/DO#
Benzene	0.4	J	0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
Benzyl chloride	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
Bromodichloromethane	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
Bromoform	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
Bromomethane	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
1,3-Butadiene	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
2-Butanone	0.5		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
Carbon disulfide	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
Carbon Tetrachloride	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
Chlorobenzene	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
Chloroethane	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
Chloroform	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
Chloromethane	0.7		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
Dibromochloromethane	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
1,2-Dibromoethane (EDB)	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
1,2-Dichlorobenzene	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
1,3-Dichlorobenzene	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
1,4-Dichlorobenzene	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
Dichlorodifluoromethane	0.6		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
1,1-Dichloroethane	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
1,2-Dichloroethane	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
1,1-Dichloroethene	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
cis-1,2-Dichloroethene	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
trans-1,2-Dichloroethene	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
1,2-Dichloropropane	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
cis-1,3-Dichloropropene	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
trans-1,3-Dichloropropene	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
Dichlorotetrafluoroethane	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
Ethanol	10.7		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
Ethylbenzene	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
Freon 113	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
Hexachlorobutadiene	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
Methyl tert-Butyl Ether	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
4-Methyl-2-pentanone	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
Methylene Chloride	0.2	J	0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
Naphthalene	0.2	J	0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
Propylene	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
Styrene	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
1,1,2,2-Tetrachloroethane	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
Tetrachloroethene	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5390



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-083112-2C0	Lab ID: 1209002-03
Sample Matrix: Air	Date Collected: 08/31/2012

Volatile Organic Compounds
 Targets (Continued)

Analyte	Result ppbv	Flag Qualifier	Quantitation		Prepared	Analyzed	Method/CF#
			Limit	Dilution			
Toluene	89		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
1,2,4-Trichlorobenzene	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
1,1,1-Trichloroethane	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
1,1,2-Trichloroethane	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
Trichloroethene	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
Trichlorofluoromethane	03	J	0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
1,2,4-Trimethylbenzene	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
1,3,5-Trimethylbenzene	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
Vinyl chloride	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
m,p-Xylene	U		1.0	1	09/11/12	09/11/12 16:00	TO-15R3 QA230
o-Xylene	U		0.5	1	09/11/12	09/11/12 16:00	TO-15R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery		Prepared	Analyzed	Method/CF#
			%Recovery	Limit			
<i>Surrogate: Bromofluorobenzene</i>	9.52		95 %	80-120	09/11/12	09/11/12 16:00	TO-15R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-083112-3	Lab ID: 1209002-04
Sample Matrix: Air	Date Collected: 08/31/2012

**Volatile Organic Compounds
Targets**

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SC#
Benzene	0.6		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
Benzyl chloride	U		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
Bromochloroethane	U		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
Bromofom	U		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
Bromoethane	U		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
1,3-Butadiene	U		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
2-Butanone	2.4		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
Carbon disulfide	0.5		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
Carbon Tetrachloride	U		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
Chlorobenzene	U		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
Chloroethane	U		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
Chloroform	U		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
Chloroethane	0.8		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
Dibromochloroethane	U		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
1,2-Dibromoethane (EDB)	U		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
1,2-Dichlorobenzene	U		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
1,3-Dichlorobenzene	U		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
1,4-Dichlorobenzene	U		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
Dichlorodifluoroethane	0.6		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
1,1-Dichloroethane	U		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
1,2-Dichloroethane	1.2		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
1,1-Dichloroethane	U		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
cis-1,2-Dichloroethane	U		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
trans-1,2-Dichloroethane	U		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
1,2-Dichloropropane	U		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
cis-1,3-Dichloropropene	U		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
trans-1,3-Dichloropropene	U		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
Dichlorotetrafluoroethane	U		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
Ethanol	25.5		1.0	2	09/11/12	09/14/12 16:17	TO-15R3 QA230
Ethylbenzene	0.7		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
Freon 113	U		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
Hexachlorobutadiene	U		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
Methyl tert-Butyl Ether	U		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
4-Methyl-2-pentanone	1.8		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
Methylene Chloride	0.6		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
Naphthalene	U		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
Propylene	U		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
Styrene	0.6		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
1,1,2,2-Tetrachloroethane	U		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
Tetrachloroethane	U		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5350



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-083112-3	Lab ID: 1209002-04
Sample Matrix: Air	Date Collected: 08/31/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SCDF
Toluene	15.4		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
1,2,4-Trichlorobenzene	U		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
1,1,1-Trichloroethane	U		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
1,1,2-Trichloroethane	U		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
Trichloroethene	U		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
Trichlorofluoromethane	0.3	J	0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
1,2,4-Trimethylbenzene	0.2	J	0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
1,3,5-Trimethylbenzene	U		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
Vinyl chloride	U		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
m,p-Xylene	2.4		1.0	1	09/11/12	09/11/12 16:44	TO-15R3 QA230
o-Xylene	0.7		0.5	1	09/11/12	09/11/12 16:44	TO-15R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery Limit	%Recovery	Prepared	Analyzed	Method/SCDF
<i>Surrogate: Bromofluorobenzene</i>	949		95 %	80-120	09/11/12	09/11/12 16:44	TO-15R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-090312-1	Lab ID: 1209002-05
Sample Matrix: Air	Date Collected: 09/03/2012

**Volatile Organic Compounds
Targets**

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analyzed	Method/DOC#
Benzene	0.5		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
Benzyl chloride	U		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
Bromodichloromethane	U		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
Bromofom	U		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
Bromomethane	U		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
1,3-Butadiene	U		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
2-Butanone	0.3	J	0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
Carbon disulfide	U		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
Carbon Tetrachloride	U		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
Chlorobenzene	U		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
Chloroethane	U		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
Chloroform	U		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
Chloromethane	0.8		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
Dibromochloromethane	U		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
1,2-Dibromoethane (EDB)	U		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
1,2-Dichlorobenzene	U		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
1,3-Dichlorobenzene	U		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
1,4-Dichlorobenzene	U		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
Dichlorodifluoromethane	0.6		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
1,1-Dichloroethane	U		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
1,2-Dichloroethane	U		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
1,1-Dichloroethene	U		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
cis-1,2-Dichloroethane	U		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
trans-1,2-Dichloroethane	U		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
1,2-Dichloropropane	U		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
cis-1,3-Dichloropropene	U		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
trans-1,3-Dichloropropene	U		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
Dichlorotetrafluoroethane	U		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
Ethanol	14.0		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
Ethylbenzene	U		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
Heon 113	U		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
Hexachlorobutadiene	U		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
Methyl tert-Butyl Ether	U		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
4-Methyl-2-pentanone	U		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
Methylene Chloride	0.2	J	0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
Naphthalene	U		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
Propylene	U		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
Styrene	U		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
1,1,2,2-Tetrachloroethane	U		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230
Tetrachloroethene	U		0.5	1	09/11/12	09/11/12 17:28	TO-15R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-090312-1	Lab ID: 1209002-05
Sample Matrix: Air	Date Collected: 09/03/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SCDF#
Toluene	11.5		0.5	1	09/11/12	09/11/12 17:28	TO-15/R3 QA230
1,2,4-Trichlorobenzene	U		0.5	1	09/11/12	09/11/12 17:28	TO-15/R3 QA230
1,1,1-Trichloroethane	U		0.5	1	09/11/12	09/11/12 17:28	TO-15/R3 QA230
1,1,2-Trichloroethane	U		0.5	1	09/11/12	09/11/12 17:28	TO-15/R3 QA230
Trichloroethene	U		0.5	1	09/11/12	09/11/12 17:28	TO-15/R3 QA230
Trichlorofluoromethane	0.3	J	0.5	1	09/11/12	09/11/12 17:28	TO-15/R3 QA230
1,2,4-Trimethylbenzene	U		0.5	1	09/11/12	09/11/12 17:28	TO-15/R3 QA230
1,3,5-Trimethylbenzene	U		0.5	1	09/11/12	09/11/12 17:28	TO-15/R3 QA230
Vinyl chloride	U		0.5	1	09/11/12	09/11/12 17:28	TO-15/R3 QA230
m,p-Xylene	U		1.0	1	09/11/12	09/11/12 17:28	TO-15/R3 QA230
o-Xylene	U		0.5	1	09/11/12	09/11/12 17:28	TO-15/R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Prepared	Analyzed	Method/SCDF#
<i>Surrogate: Bromofluorobenzene</i>	9.77		98 %	80-120	09/11/12	09/11/12 17:28	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-090312-2	Lab ID: 1209002-06
Sample Matrix: Air	Date Collected: 09/03/2012

**Volatile Organic Compounds
Targets**

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SCM#
Benzene	0.5		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
Benzyl chloride	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
Bromodichloromethane	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
Bromofom	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
Bromomethane	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
1,3-Butadiene	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
2-Butanone	0.3	J	0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
Carbon disulfide	1.4		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
Carbon Tetrachloride	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
Chlorobenzene	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
Chloroethane	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
Chloroform	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
Chloromethane	0.7		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
Dibromochloromethane	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
1,2-Dibromoethane (EDB)	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
1,2-Dichlorobenzene	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
1,3-Dichlorobenzene	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
1,4-Dichlorobenzene	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
Dichlorodifluoromethane	0.6		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
1,1-Dichloroethane	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
1,2-Dichloroethane	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
1,1-Dichloroethene	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
cis-1,2-Dichloroethane	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
trans-1,2-Dichloroethane	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
1,2-Dichloropropane	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
cis-1,3-Dichloropropene	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
trans-1,3-Dichloropropene	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
Dichlorotetrafluoroethane	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
Ethanol	14.2		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
Ethylbenzene	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
Freon 113	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
Heptachlorobutadiene	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
Methyl tert-Butyl Ether	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
4-Methyl-2-pentanone	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
Methylene Chloride	0.2	J	0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
Naphthalene	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
Propylene	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
Styrene	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
1,1,2,2-Tetrachloroethane	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
Tetrachloroethene	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5300



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-090312-2	Lab ID: 1209002-06
Sample Matrix: Air	Date Collected: 09/03/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SCM#
Toluene	3.4		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
1,2,4-Trichlorobenzene	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
1,1,1-Trichloroethane	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
1,1,2-Trichloroethane	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
Trichloroethene	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
Trichlorofluoromethane	0.3	J	0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
1,2,4-Trimethylbenzene	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
1,3,5-Trimethylbenzene	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
Vinyl chloride	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
m,p-Xylene	U		1.0	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230
o-Xylene	U		0.5	1	09/11/12	09/11/12 18:12	TO-15/R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery StdRecovery	%Recovery Limit	Prepared	Analyzed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.54		95 %	80-120	09/11/12	09/11/12 18:12	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-090312-2C0	Lab ID: 1209002-07
Sample Matrix: Air	Date Collected: 09/03/2012

**Volatile Organic Compounds
Targets**

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SC#
Benzene	0.6		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
Benzyl chloride	U		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
Bromodichloromethane	U		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
Bromofom	U		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
Bromomethane	U		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
1,3-Butadiene	U		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
2-Butanone	0.7		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
Carbon disulfide	0.3	J	0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
Carbon Tetrachloride	U		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
Chlorobenzene	U		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
Chloroethane	U		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
Chloroform	U		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
Chloromethane	0.8		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
Dibromochloromethane	U		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
1,2-Dibromoethane (EDB)	U		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
1,2-Dichlorobenzene	U		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
1,3-Dichlorobenzene	U		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
1,4-Dichlorobenzene	U		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
Dichlorodifluoromethane	0.6		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
1,1-Dichloroethane	U		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
1,2-Dichloroethane	0.3	J	0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
1,1-Dichloroethene	U		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
cis-1,2-Dichloroethene	U		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
trans-1,2-Dichloroethene	U		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
1,2-Dichloropropane	U		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
cis-1,3-Dichloropropene	U		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
trans-1,3-Dichloropropene	U		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
Dichlorotetrafluoroethane	U		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
Ethanol	26.0		2.0	4	09/11/12	09/14/12 16:56	TO-15R3 QA230
Ethylbenzene	0.2	J	0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
Heon 113	U		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
Hexachlorobutadiene	U		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
Methyl tert-Butyl Ether	U		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
4-Methyl-2-pentanone	0.3	J	0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
Methylene Chloride	0.2	J	0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
Naphthalene	U		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
Propylene	U		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
Styrene	0.2	J	0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
1,1,2,2-Tetrachloroethane	U		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
Tetrachloroethene	U		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5350



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-090312-2C0	Lab ID: 1209002-07
Sample Matrix: Air	Date Collected: 09/03/2012

**Volatile Organic Compounds
Targets (Continued)**

Analyte	Result ppbv	Flag Qualifier	Quantitation		Prepared	Analyzed	Method/SCF#
			Limit	Dilution			
Toluene	59		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
1,2,4-Trichlorobenzene	U		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
1,1,1-Trichloroethane	U		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
1,1,2-Trichloroethane	U		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
Trichloroethene	U		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
Trichlorofluoromethane	03	J	0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
1,2,4-Trimethylbenzene	U		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
1,3,5-Trimethylbenzene	U		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
Vinyl chloride	U		0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
m,p-Xylene	07	J	1.0	1	09/11/12	09/11/12 18:55	TO-15R3 QA230
o-Xylene	02	J	0.5	1	09/11/12	09/11/12 18:55	TO-15R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery		Prepared	Analyzed	Method/SCF#
			%Recovery	Limit			
<i>Surrogate: Bromofluorobenzene</i>	953		95 %	10-120	09/11/12	09/11/12 18:55	TO-15R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-083112	Lab ID: 1209002-09
Sample Matrix: Air	Date Collected: 08/31/2012

Volatile Organic Compounds
Targets

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SCID#
Benzene	0.5		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
Benzyl chloride	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
Bromodichloromethane	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
Bromoforn	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
Bromomethane	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
1,3-Butadiene	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
2-Butanone	0.3	J	0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
Carbon disulfide	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
Carbon Tetrachloride	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
Chlorobenzene	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
Chloroethane	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
Chloroform	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
Chloromethane	0.7		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
Dibromochloromethane	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
1,2-Dibromoethane (EDB)	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
1,2-Dichlorobenzene	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
1,3-Dichlorobenzene	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
1,4-Dichlorobenzene	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
Dichlorodifluoromethane	0.6		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
1,1-Dichloroethane	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
1,2-Dichloroethane	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
1,1-Dichloroethene	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
cis-1,2-Dichloroethene	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
trans-1,2-Dichloroethene	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
1,2-Dichloropropene	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
cis-1,3-Dichloropropene	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
trans-1,3-Dichloropropene	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
Dichlorotetrafluoroethane	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
Ethanol	11.6		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
Ethylbenzene	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
Heon 113	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
Hexachlorobutadiene	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
Methyl tert-Butyl Ether	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
4-Methyl-2-pentanone	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
Methylene Chloride	0.2	J	0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
Naphthalene	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
Propylene	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
Styrene	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
1,1,2,2-Tetrachloroethane	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
Tetrachloroethene	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-083112	Lab ID: 1209002-09
Sample Matrix: Air	Date Collected: 08/31/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analyzed	Method/CFE#
Toluene	2.2		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
1,2,4-Trichlorobenzene	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
1,1,1-Trichloroethane	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
1,1,2-Trichloroethane	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
Trichloroethene	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
Trichlorobromomethane	0.3	J	0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
1,2,4-Trimethylbenzene	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
1,3,5-Trimethylbenzene	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
Vinyl chloride	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
m,p-Xylene	U		1.0	1	09/11/12	09/11/12 19:38	TO-15R3 QA230
o-Xylene	U		0.5	1	09/11/12	09/11/12 19:38	TO-15R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery Limit	%Recovery	Prepared	Analyzed	Method/CFE#
<i>Surrogate: Bromofluorobenzene</i>	9.61		96 %	80-120	09/11/12	09/11/12 19:38	TO-15R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-090612-1	Lab ID: 1209002-10
Sample Matrix: Air	Date Collected: 09/06/2012

Volatile Organic Compounds
Targets

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SCID#
Benzene	0.4	J	0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
Benzyl chloride	U		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
Bromodichloromethane	U		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
Bromoform	U		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
Bromomethane	U		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
1,3-Butadiene	U		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
2-Butanone	0.5		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
Carbon disulfide	U		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
Carbon Tetrachloride	U		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
Chlorobenzene	U		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
Chloroethane	U		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
Chloroform	U		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
Chloromethane	0.8		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
Dibromochloromethane	U		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
1,2-Dibromoethane (EDB)	U		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
1,2-Dichlorobenzene	U		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
1,3-Dichlorobenzene	U		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
1,4-Dichlorobenzene	U		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
Dichlorodifluoromethane	0.6		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
1,1-Dichloroethane	U		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
1,2-Dichloroethane	U		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
1,1-Dichloroethene	U		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
cis-1,2-Dichloroethene	U		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
trans-1,2-Dichloroethene	U		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
1,2-Dichloropropene	U		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
cis-1,3-Dichloropropene	U		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
trans-1,3-Dichloropropene	U		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
Dichlorotetrafluoroethane	U		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
Ethanol	10.9		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
Ethylbenzene	U		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
Heon 113	U		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
Hexachlorobutadiene	U		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
Methyl tert-Butyl Ether	U		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
4-Methyl-2-pentanone	U		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
Methylene Chloride	0.2	J	0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
Naphthalene	U		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
Propylene	U		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
Styrene	U		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
1,1,2,2-Tetrachloroethane	U		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230
Tetrachloroethene	U		0.5	1	09/04/12	09/14/12 20:38	TO-15R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-090612-1	Lab ID: 1209002-10
Sample Matrix: Air	Date Collected: 09/06/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SCOW
Toluene	6.8		0.5	1	09/04/12	09/14/12 20:38	TO-15/R3 QA230
1,2,4-Trichlorobenzene	U		0.5	1	09/04/12	09/14/12 20:38	TO-15/R3 QA230
1,1,1-Trichloroethane	U		0.5	1	09/04/12	09/14/12 20:38	TO-15/R3 QA230
1,1,2-Trichloroethane	U		0.5	1	09/04/12	09/14/12 20:38	TO-15/R3 QA230
Trichloroethene	U		0.5	1	09/04/12	09/14/12 20:38	TO-15/R3 QA230
Trichlorofluoromethane	0.3	J	0.5	1	09/04/12	09/14/12 20:38	TO-15/R3 QA230
1,2,4-Trimethylbenzene	U		0.5	1	09/04/12	09/14/12 20:38	TO-15/R3 QA230
1,3,5-Trimethylbenzene	U		0.5	1	09/04/12	09/14/12 20:38	TO-15/R3 QA230
Vinyl chloride	U		0.5	1	09/04/12	09/14/12 20:38	TO-15/R3 QA230
m,p-Xylene	U		1.0	1	09/04/12	09/14/12 20:38	TO-15/R3 QA230
o-Xylene	U		0.5	1	09/04/12	09/14/12 20:38	TO-15/R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery %Recovery	%Recovery Limit	Prepared	Analyzed	Method/SCOW
<i>Surrogate: Bromofluorobenzene</i>	9.58		96 %	80-120	09/04/12	09/14/12 20:38	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA
Station ID: BRIG-VOC-090612-2
Sample Matrix: Air

Project #: NSF 615
Lab ID: 1209002-11
Date Collected: 09/06/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SCD#
Benzene	0.4	J	0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
Benzyl chloride	U		0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
Bromodichloromethane	U		0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
Bromofom	U		0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
Bromomethane	U		0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
1,3-Butadiene	U		0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
2-Butanone	0.6		0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
Carbon disulfide	U		0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
Carbon Tetrachloride	U		0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
Chlorobenzene	U		0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
Chloroethane	U		0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
Chloroform	U		0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
Chloromethane	0.9		0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
Dibromochloromethane	U		0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
1,2-Dibromoethane (EDB)	U		0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
1,2-Dichlorobenzene	U		0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
1,3-Dichlorobenzene	U		0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
1,4-Dichlorobenzene	U		0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
Dichlorodifluoromethane	0.6		0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
1,1-Dichloroethane	U		0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
1,2-Dichloroethane	U		0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
1,1-Dichloroethene	U		0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
cis-1,2-Dichloroethene	U		0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
trans-1,2-Dichloroethene	U		0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
1,2-Dichloropropane	U		0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
cis-1,3-Dichloropropene	U		0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
trans-1,3-Dichloropropene	U		0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
Dichlorotetrafluoroethane	U		0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
Ethanol	7.8		0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
Ethylbenzene	U		0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
Ethylene	U		0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
Hexachlorobutadiene	U		0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
Methyl tert-Butyl Ether	U		0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
4-Methyl-2-pentanone	U		0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
Methylene Chloride	0.4	J	0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
Naphthalene	U		0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
Propylene	U		0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
Styrene	0.2	J	0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
1,1,2,2-Tetrachloroethane	U		0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230
Tetrachloroethene	U		0.5	1	09/04/12	09/14/12 21:20	TO-15R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5350



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-090612-2	Lab ID: 1209002-11
Sample Matrix: Air	Date Collected: 09/06/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analyzed	Method/CPM
Toluene	8.0		0.5	1	09/14/12	09/14/12 21:20	TO-15R3 QA230
1,2,4-Trichlorobenzene	U		0.5	1	09/14/12	09/14/12 21:20	TO-15R3 QA230
1,1,1-Trichloroethane	U		0.5	1	09/14/12	09/14/12 21:20	TO-15R3 QA230
1,1,2-Trichloroethane	U		0.5	1	09/14/12	09/14/12 21:20	TO-15R3 QA230
Trichloroethene	U		0.5	1	09/14/12	09/14/12 21:20	TO-15R3 QA230
Trichlorofluoromethane	0.3	J	0.5	1	09/14/12	09/14/12 21:20	TO-15R3 QA230
1,2,4-Trimethylbenzene	U		0.5	1	09/14/12	09/14/12 21:20	TO-15R3 QA230
1,3,5-Trimethylbenzene	U		0.5	1	09/14/12	09/14/12 21:20	TO-15R3 QA230
Vinyl chloride	U		0.5	1	09/14/12	09/14/12 21:20	TO-15R3 QA230
m,p-Xylene	U		1.0	1	09/14/12	09/14/12 21:20	TO-15R3 QA230
o-Xylene	U		0.5	1	09/14/12	09/14/12 21:20	TO-15R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Prepared	Analyzed	Method/CPM
<i>Surrogate: Bromofluorobenzene</i>	9.62		96 %	80-120	09/14/12	09/14/12 21:20	TO-15R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-090612-2C0	Lab ID: 1209002-12
Sample Matrix: Air	Date Collected: 09/06/2012

Volatile Organic Compounds
Targets

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analyzed	Method/RCF#
Benzene	0.4	J	0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
Benzyl chloride	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
Bromodichloromethane	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
Bromoform	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
Bromomethane	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
1,3-Butadiene	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
2-Butanone	0.6		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
Carbon disulfide	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
Carbon Tetrachloride	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
Chlorobenzene	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
Chloroethane	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
Chloroform	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
Chloromethane	0.9		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
Dibromochloromethane	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
1,2-Dibromoethane (EDB)	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
1,2-Dichlorobenzene	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
1,3-Dichlorobenzene	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
1,4-Dichlorobenzene	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
Dichlorodifluoromethane	0.6		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
1,1-Dichloroethane	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
1,2-Dichloroethane	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
1,1-Dichloroethene	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
cis-1,2-Dichloroethene	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
trans-1,2-Dichloroethene	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
1,2-Dichloropropene	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
cis-1,3-Dichloropropene	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
trans-1,3-Dichloropropene	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
Dichlorotetrafluoroethane	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
Ethanol	7.8		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
Ethylbenzene	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
Heon 113	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
Hexachlorobutadiene	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
Methyl tert-Butyl Ether	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
4-Methyl-2-pentanone	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
Methylene Chloride	0.4	J	0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
Naphthalene	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
Propylene	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
Styrene	0.2	J	0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
1,1,2,2-Tetrachloroethane	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
Tetrachloroethene	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-090612-2C0	Lab ID: 1209002-12
Sample Matrix: Air	Date Collected: 09/06/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SCDF#
Toluene	81		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
1,2,4-Trichlorobenzene	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
1,1,1-Trichloroethane	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
1,1,2-Trichloroethane	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
Trichloroethene	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
Trichlorofluoromethane	03	J	0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
1,2,4-Trimethylbenzene	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
1,3,5-Trimethylbenzene	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
Vinyl chloride	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
m,p-Xylene	U		1.0	1	09/14/12	09/14/12 22:03	TO-15R3 QA230
o-Xylene	U		0.5	1	09/14/12	09/14/12 22:03	TO-15R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery %Recovery	Limit	Prepared	Analyzed	Method/SCDF#
<i>Surrogate: Bromofluorobenzene</i>	961		96 %	80-120	09/14/12	09/14/12 22:03	TO-15R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-090612-3	Lab ID: 1209002-13
Sample Matrix: Air	Date Collected: 09/06/2012

Volatile Organic Compounds
Targets

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analyzed	Method/DOE#
Benzene	0.3	J	0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
Benzyl chloride	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
Bromodichloromethane	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
Bromofom	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
Bromomethane	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
1,3-Butadiene	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
2-Butanone	0.4	J	0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
Carbon disulfide	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
Carbon Tetrachloride	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
Chlorobenzene	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
Chloroethane	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
Chloroform	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
Chloromethane	0.8		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
Dibromochloromethane	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
1,2-Dibromoethane (EDB)	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
1,2-Dichlorobenzene	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
1,3-Dichlorobenzene	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
1,4-Dichlorobenzene	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
Dichlorodifluoromethane	0.6		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
1,1-Dichloroethane	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
1,2-Dichloroethane	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
1,1-Dichloroethene	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
cis-1,2-Dichloroethene	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
trans-1,2-Dichloroethene	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
1,2-Dichloropropene	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
cis-1,3-Dichloropropene	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
trans-1,3-Dichloropropene	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
Dichlorotetrafluoroethane	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
Ethanol	7.9		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
Ethylbenzene	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
Ethanol	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
Hexachlorobutadiene	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
Methyl tert-Butyl Ether	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
4-Methyl-2-pentanone	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
Methylene Chloride	0.2	J	0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
Naphthalene	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
Propylene	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
Styrene	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
1,1,2,2-Tetrachloroethane	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
Tetrachloroethene	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-090612-3	Lab ID: 1209002-13
Sample Matrix: Air	Date Collected: 09/06/2012

Volatile Organic Compounds
 Targets (Continued)

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SCDF
Toluene	4.4		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
1,2,4-Trichlorobenzene	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
1,1,1-Trichloroethane	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
1,1,2-Trichloroethane	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
Trichloroethene	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
Trichlorofluoromethane	0.3	J	0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
1,2,4-Trimethylbenzene	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
1,3,5-Trimethylbenzene	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
Vinyl chloride	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
m,p-Xylene	U		1.0	1	09/14/12	09/14/12 22:46	TO-15R3 QA230
o-Xylene	U		0.5	1	09/14/12	09/14/12 22:46	TO-15R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery Limit	Prepared	Analyzed	Method/SCDF
<i>Surrogate: Bromofluorobenzene</i>	9.46		95 % 80-120	09/14/12	09/14/12 22:46	TO-15R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5350



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-090612	Lab ID: 1209002-14
Sample Matrix: Air	Date Collected: 09/06/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SCDF
Benzene	0.6		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
Benzyl chloride	U		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
Bromodichloromethane	U		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
Bromoform	U		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
Bromomethane	U		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
1,3-Butadiene	U		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
2-Butanone	0.5		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
Carbon disulfide	U		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
Carbon Tetrachloride	U		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
Chlorobenzene	U		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
Chloroethane	U		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
Chloroform	U		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
Chloromethane	0.8		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
Dibromodichloromethane	U		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
1,2-Dibromoethane (EDB)	U		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
1,2-Dichlorobenzene	U		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
1,3-Dichlorobenzene	U		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
1,4-Dichlorobenzene	U		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
Dichlorodifluoromethane	0.6		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
1,1-Dichloroethane	U		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
1,2-Dichloroethane	U		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
1,1-Dichloroethene	U		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
cis-1,2-Dichloroethene	U		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
trans-1,2-Dichloroethene	U		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
1,2-Dichloropropene	U		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
cis-1,3-Dichloropropene	U		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
trans-1,3-Dichloropropene	U		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
Dichlorotetrafluoroethane	U		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
Ethanol	11.7		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
Ethylbenzene	U		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
Heon 113	U		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
Hexachlorobutadiene	U		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
Methyl tert-Butyl Ether	U		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
4-Methyl-2-pentanone	U		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
Methylene Chloride	0.3	J	0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
Naphthalene	0.2	J	0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
Propylene	U		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
Styrene	U		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
1,1,2,2-Tetrachloroethane	U		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230
Tetrachloroethene	U		0.5	1	09/14/12	09/14/12 23:30	TO-15MR3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-090612	Lab ID: 1209002-14
Sample Matrix: Air	Date Collected: 09/06/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SCHE
Toluene	2.0		0.5	1	09/14/12	09/14/12 23:30	TO-15R3 QA230
1,2,4-Trichlorobenzene	U		0.5	1	09/14/12	09/14/12 23:30	TO-15R3 QA230
1,1,1-Trichloroethane	U		0.5	1	09/14/12	09/14/12 23:30	TO-15R3 QA230
1,1,2-Trichloroethane	U		0.5	1	09/14/12	09/14/12 23:30	TO-15R3 QA230
Trichloroethene	U		0.5	1	09/14/12	09/14/12 23:30	TO-15R3 QA230
Trichlorofluoromethane	0.3	J	0.5	1	09/14/12	09/14/12 23:30	TO-15R3 QA230
1,2,4-Trimethylbenzene	U		0.5	1	09/14/12	09/14/12 23:30	TO-15R3 QA230
1,3,5-Trimethylbenzene	U		0.5	1	09/14/12	09/14/12 23:30	TO-15R3 QA230
Vinyl chloride	U		0.5	1	09/14/12	09/14/12 23:30	TO-15R3 QA230
m,p-Xylene	U		1.0	1	09/14/12	09/14/12 23:30	TO-15R3 QA230
o-Xylene	U		0.5	1	09/14/12	09/14/12 23:30	TO-15R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery Limit	Prepared	Analyzed	Method/SCHE
<i>Surrogate: Bromofluorobenzene</i>	9.62		96 % 80-120	09/14/12	09/14/12 23:30	TO-15R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-090912-1	Lab ID: 1209002-15
Sample Matrix: Air	Date Collected: 09/09/2012

Volatile Organic Compounds
Targets

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SC#
Benzene	0.2	J	0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
Benzyl chloride	U		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
Bromodichloromethane	U		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
Bromofom	U		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
Bromomethane	U		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
1,3-Butadiene	U		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
2-Butanone	U		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
Carbon disulfide	U		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
Carbon Tetrachloride	U		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
Chlorobenzene	U		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
Chloroethane	U		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
Chloroform	U		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
Chloromethane	0.6		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
Dibromodichloromethane	U		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
1,2-Dibromoethane (EDB)	U		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
1,2-Dichlorobenzene	U		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
1,3-Dichlorobenzene	U		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
1,4-Dichlorobenzene	U		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
Dichlorodifluoromethane	0.6		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
1,1-Dichloroethane	U		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
1,2-Dichloroethane	U		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
1,1-Dichloroethene	U		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
cis-1,2-Dichloroethene	U		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
trans-1,2-Dichloroethene	U		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
1,2-Dichloropropane	U		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
cis-1,3-Dichloropropene	U		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
trans-1,3-Dichloropropene	U		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
Dichlorotetrafluoroethane	U		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
Ethanol	4.2		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
Ethylbenzene	U		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
Ethylene	U		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
Hexachlorobutadiene	U		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
Methyl tert-Butyl Ether	U		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
4-Methyl-2-pentanone	U		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
Methylene Chloride	0.2	J	0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
Naphthalene	U		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
Propylene	U		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
Styrene	U		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
1,1,2,2-Tetrachloroethane	U		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230
Tetrachloroethene	U		0.5	1	09/19/12	09/19/12 16:09	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5350



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VO C-090912-1	Lab ID: 1209002-15
Sample Matrix: Air	Date Collected: 09/09/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SCM#
Toluene	23		0.5	1	09/19/12	09/19/12 16:09	TO-15R3 QA230
1,2,4-Trichlorobenzene	U		0.5	1	09/19/12	09/19/12 16:09	TO-15R3 QA230
1,1,1-Trichloroethane	U		0.5	1	09/19/12	09/19/12 16:09	TO-15R3 QA230
1,1,2-Trichloroethane	U		0.5	1	09/19/12	09/19/12 16:09	TO-15R3 QA230
Trichloroethene	U		0.5	1	09/19/12	09/19/12 16:09	TO-15R3 QA230
Trichlorofluoromethane	03	J	0.5	1	09/19/12	09/19/12 16:09	TO-15R3 QA230
1,2,4-Trimethylbenzene	U		0.5	1	09/19/12	09/19/12 16:09	TO-15R3 QA230
1,3,5-Trimethylbenzene	U		0.5	1	09/19/12	09/19/12 16:09	TO-15R3 QA230
Vinyl chloride	U		0.5	1	09/19/12	09/19/12 16:09	TO-15R3 QA230
m,p-Xylene	U		1.0	1	09/19/12	09/19/12 16:09	TO-15R3 QA230
o-Xylene	U		0.5	1	09/19/12	09/19/12 16:09	TO-15R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Prepared	Analyzed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	940		94 %	80-120	09/19/12	09/19/12 16:09	TO-15R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



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 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5350



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-090912-2	Lab ID: 1209002-16
Sample Matrix: Air	Date Collected: 09/09/2012

**Volatile Organic Compounds
Targets**

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SC#
Benzene	0.3	J	0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
Benzyl chloride	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
Bromodichloromethane	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
Bromoform	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
Bromomethane	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
1,3-Butadiene	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
2-Butanone	0.2	J	0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
Carbon disulfide	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
Carbon Tetrachloride	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
Chlorobenzene	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
Chloroethane	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
Chloroform	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
Chloromethane	0.7		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
Dibromochloromethane	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
1,2-Dibromoethane (EDB)	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
1,2-Dichlorobenzene	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
1,3-Dichlorobenzene	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
1,4-Dichlorobenzene	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
Dichlorodifluoromethane	0.7		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
1,1-Dichloroethane	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
1,2-Dichloroethane	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
1,1-Dichloroethene	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
cis-1,2-Dichloroethene	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
trans-1,2-Dichloroethene	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
1,2-Dichloropropane	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
cis-1,3-Dichloropropene	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
trans-1,3-Dichloropropene	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
Dichlorotetrafluoroethane	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
Ethanol	7.1	L	0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
Ethylbenzene	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
Freon 113	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
Hexachlorobutadiene	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
Methyl tert-Butyl Ether	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
4-Methyl-2-pentanone	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
Methylene Chloride	0.2	J	0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
Naphthalene	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
Propylene	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
Styrene	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
1,1,2,2-Tetrachloroethane	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
Tetrachloroethene	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-090912-2	Lab ID: 1209002-16
Sample Matrix: Air	Date Collected: 09/09/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SCDF
Toluene	51		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
1,2,4-Trichlorobenzene	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
1,1,1-Trichloroethane	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
1,1,2-Trichloroethane	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
Trichloroethene	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
Trichlorofluoromethane	03	J	0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
1,2,4-Trimethylbenzene	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
1,3,5-Trimethylbenzene	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
Vinyl chloride	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
m,p-Xylene	U		1.0	1	09/19/12	09/19/12 16:53	TO-15R3 QA230
o-Xylene	U		0.5	1	09/19/12	09/19/12 16:53	TO-15R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery Limit	Prepared	Analyzed	Method/SCDF
<i>Surrogate: Bromofluorobenzene</i>	945		94 % 80-120	09/19/12	09/19/12 16:53	TO-15R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-090912-2C0	Lab ID: 1209002-17
Sample Matrix: Air	Date Collected: 09/09/2012

**Volatile Organic Compounds
Targets**

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SCID#
Benzene	03	J	0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
Benzyl chloride	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
Bromodichloromethane	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
Bromoform	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
Bromomethane	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
1,3-Butadiene	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
2-Butanone	02	J	0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
Carbon disulfide	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
Carbon Tetrachloride	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
Chlorobenzene	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
Chloroethane	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
Chloroform	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
Chloromethane	07		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
Dibromochloromethane	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
1,2-Dibromoethane (EDB)	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
1,2-Dichlorobenzene	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
1,3-Dichlorobenzene	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
1,4-Dichlorobenzene	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
Dichlorodifluoroethane	07		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
1,1-Dichloroethane	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
1,2-Dichloroethane	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
1,1-Dichloroethene	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
cis-1,2-Dichloroethene	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
trans-1,2-Dichloroethene	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
1,2-Dichloropropene	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
cis-1,3-Dichloropropene	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
trans-1,3-Dichloropropene	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
Dichlorotetrafluoroethane	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
Ethanol	83		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
Ethylbenzene	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
Heon 113	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
Hexachlorobutadiene	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
Methyl tert-Butyl Ether	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
4-Methyl-2-pentanone	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
Methylene Chloride	02	J	0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
Naphthalene	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
Propylene	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
Styrene	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
1,1,2,2-Tetrachloroethane	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
Tetrachloroethene	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-090912-2C0	Lab ID: 1209002-17
Sample Matrix: Air	Date Collected: 09/09/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SCDF
Toluene	1.6		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
1,2,4-Trichlorobenzene	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
1,1,1-Trichloroethane	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
1,1,2-Trichloroethane	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
Trichloroethene	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
Trichlorofluoromethane	0.3	J	0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
1,2,4-Trimethylbenzene	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
1,3,5-Trimethylbenzene	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
Vinyl chloride	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
m,p-Xylene	U		1.0	1	09/19/12	09/19/12 17:35	TO-15R3 QA230
o-Xylene	U		0.5	1	09/19/12	09/19/12 17:35	TO-15R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Prepared	Analyzed	Method/SCDF
<i>Surrogate: Bromofluorobenzene</i>	9.46		95 %	80-120	09/19/12	09/19/12 17:35	TO-15R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



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 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-090912-3	Lab ID: 1209002-18
Sample Matrix: Air	Date Collected: 09/09/2012

**Volatile Organic Compounds
Targets**

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SCF#
Benzene	0.2	J	0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
Benzyl chloride	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
Bromodichloromethane	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
Bromoforn	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
Bromomethane	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
1,3-Butadiene	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
2-Butanone	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
Carbon disulfide	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
Carbon Tetrachloride	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
Chlorobenzene	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
Chloroethane	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
Chloroform	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
Chloromethane	0.7		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
Dibromochloromethane	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
1,2-Dibromoethane (EDB)	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
1,2-Dichlorobenzene	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
1,3-Dichlorobenzene	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
1,4-Dichlorobenzene	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
Dichlorodifluoromethane	0.7		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
1,1-Dichloroethane	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
1,2-Dichloroethane	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
1,1-Dichloroethene	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
cis-1,2-Dichloroethene	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
trans-1,2-Dichloroethene	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
1,2-Dichloropropane	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
cis-1,3-Dichloropropene	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
trans-1,3-Dichloropropene	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
Dichlorotetrafluoroethane	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
Ethanol	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
Ethylbenzene	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
Freon 113	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
Hexachlorobutadiene	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
Methyl tert-Butyl Ether	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
4-Methyl-2-pentanone	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
Methylene Chloride	0.2	J	0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
Naphthalene	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
Propylene	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
Styrene	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
1,1,2,2-Tetrachloroethane	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
Tetrachloroethene	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



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 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-090912-3	Lab ID: 1209002-18
Sample Matrix: Air	Date Collected: 09/09/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SCM#
Toluene	1.8		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
1,2,4-Trichlorobenzene	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
1,1,1-Trichloroethane	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
1,1,2-Trichloroethane	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
Trichloroethene	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
Trichlorofluoromethane	0.3	J	0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
1,2,4-Trimethylbenzene	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
1,3,5-Trimethylbenzene	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
Vinyl chloride	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
m,p-Xylene	U		1.0	1	09/19/12	09/19/12 18:17	TO-15R3 QA230
o-Xylene	U		0.5	1	09/19/12	09/19/12 18:17	TO-15R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Prepared	Analyzed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.1		94 %	80-120	09/19/12	09/19/12 18:17	TO-15R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-090912	Lab ID: 1209002-19
Sample Matrix: Air	Date Collected: 09/09/2012

Volatile Organic Compounds
Targets

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analyzed	Method/QC#
Benzene	0.2	J	0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
Benzyl chloride	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
Bromodichloromethane	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
Bromoform	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
Bromomethane	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
1,3-Butadiene	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
2-Butanone	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
Carbon disulfide	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
Carbon Tetrachloride	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
Chlorobenzene	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
Chloroethane	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
Chloroform	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
Chloromethane	0.6		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
Dibromochloromethane	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
1,2-Dibromoethane (EDB)	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
1,2-Dichlorobenzene	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
1,3-Dichlorobenzene	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
1,4-Dichlorobenzene	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
Dichlorodifluoromethane	0.7		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
1,1-Dichloroethane	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
1,2-Dichloroethane	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
1,1-Dichloroethene	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
cis-1,2-Dichloroethane	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
trans-1,2-Dichloroethane	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
1,2-Dichloropropene	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
cis-1,3-Dichloropropene	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
trans-1,3-Dichloropropene	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
Dichlorotetrafluoroethane	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
Ethanol	4.5		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
Ethylbenzene	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
Freon 113	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
Hexachlorobutadiene	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
Methyl tert-Butyl Ether	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
4-Methyl-2-pentanone	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
Methylene Chloride	0.2	J	0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
Naphthalene	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
Propylene	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
Styrene	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
1,1,2,2-Tetrachloroethane	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
Tetrachloroethene	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-090912	Lab ID: 1209002-19
Sample Matrix: Air	Date Collected: 09/09/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SCM#
Toluene	0.7		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
1,2,4-Trichlorobenzene	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
1,1,1-Trichloroethane	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
1,1,2-Trichloroethane	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
Trichloroethene	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
Trichlorofluoromethane	0.3	J	0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
1,2,4-Trimethylbenzene	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
1,3,5-Trimethylbenzene	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
Vinyl chloride	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
m,p-Xylene	U		1.0	1	09/19/12	09/19/12 19:00	TO-15R3 QA230
o-Xylene	U		0.5	1	09/19/12	09/19/12 19:00	TO-15R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	Limit	Prepared	Analyzed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.50		95 %	80-120	09/19/12	09/19/12 19:00	TO-15R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-091212-2	Lab ID: 1209002-21
Sample Matrix: Air	Date Collected: 09/12/2012

**Volatile Organic Compounds
Targets**

Analyte	Concn ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analyzed	Method/CEM
Benzene	0.3	J	0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
Benzyl chloride	U		0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
Bromodichloromethane	U		0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
Bromoforn	U		0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
Bromomethane	U		0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
1,3-Butadiene	U		0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
2-Butanone	0.3	J	0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
Carbon disulfide	U		0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
Carbon Tetrachloride	U		0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
Chlorobenzene	U		0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
Chloroethane	U		0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
Chloroform	U		0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
Chloromethane	0.7		0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
Dibromochloromethane	U		0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
1,2-Dibromoethane (EDB)	U		0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
1,2-Dichlorobenzene	U		0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
1,3-Dichlorobenzene	U		0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
1,4-Dichlorobenzene	U		0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
Dichlorodifluoromethane	0.7		0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
1,1-Dichloroethane	U		0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
1,2-Dichloroethane	U		0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
1,1-Dichloroethene	U		0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
cis-1,2-Dichloroethene	U		0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
trans-1,2-Dichloroethene	U		0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
1,2-Dichloropropene	U		0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
cis-1,3-Dichloropropene	U		0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
trans-1,3-Dichloropropene	U		0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
Dichlorotetrafluoroethane	U		0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
Ethanol	5.2		0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
Ethylbenzene	U		0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
Freon 113	U		0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
Hexachlorobutadiene	U		0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
Methyl tert-Butyl Ether	U		0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
4-Methyl-2-pentanone	U		0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
Methylene Chloride	0.2	J	0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
Naphthalene	0.4	J	0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
Propylene	U		0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
Styrene	U		0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
1,1,2,2-Tetrachloroethane	U		0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230
Tetrachloroethene	U		0.5	1	09/19/12	09/19/12 19:42	TO-15R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5350



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-091212-2	Lab ID: 1209002-21
Sample Matrix: Air	Date Collected: 09/12/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SCDW
Toluene	1.6		0.5	1	09/19/12	09/19/12 19:42	TO-15/R3 QA230
1,2,4-Trichlorobenzene	0.2	J	0.5	1	09/19/12	09/19/12 19:42	TO-15/R3 QA230
1,1,1-Trichloroethane	U		0.5	1	09/19/12	09/19/12 19:42	TO-15/R3 QA230
1,1,2-Trichloroethane	U		0.5	1	09/19/12	09/19/12 19:42	TO-15/R3 QA230
Trichloroethene	U		0.5	1	09/19/12	09/19/12 19:42	TO-15/R3 QA230
Trichlorofluoromethane	0.3	J	0.5	1	09/19/12	09/19/12 19:42	TO-15/R3 QA230
1,2,4-Trimethylbenzene	U		0.5	1	09/19/12	09/19/12 19:42	TO-15/R3 QA230
1,3,5-Trimethylbenzene	U		0.5	1	09/19/12	09/19/12 19:42	TO-15/R3 QA230
Vinyl chloride	U		0.5	1	09/19/12	09/19/12 19:42	TO-15/R3 QA230
m,p-Xylene	U		1.0	1	09/19/12	09/19/12 19:42	TO-15/R3 QA230
o-Xylene	U		0.5	1	09/19/12	09/19/12 19:42	TO-15/R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery Limit	Prepared	Analyzed	Method/SCDW
<i>Surrogate: Bromofluorobenzene</i>	9.55		96 % 80-120	09/19/12	09/19/12 19:42	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-091212-2C0	Lab ID: 1209002-22
Sample Matrix: Air	Date Collected: 09/12/2012

**Volatile Organic Compounds
Targets**

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SCM#
Benzene	0.2	J	0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
Benzyl chloride	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
Bromodichloromethane	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
Bromoform	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
Bromomethane	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
1,3-Butadiene	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
2-Butanone	0.3	J	0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
Carbon disulfide	0.4	J	0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
Carbon Tetrachloride	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
Chlorobenzene	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
Chloroethane	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
Chloroform	0.4	J	0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
Chloromethane	0.7		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
Dibromochloromethane	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
1,2-Dibromoethane (EDB)	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
1,2-Dichlorobenzene	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
1,3-Dichlorobenzene	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
1,4-Dichlorobenzene	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
Dichlorodifluoromethane	0.7		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
1,1-Dichloroethane	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
1,2-Dichloroethane	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
1,1-Dichloroethene	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
cis-1,2-Dichloroethane	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
trans-1,2-Dichloroethane	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
1,2-Dichloropropane	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
cis-1,3-Dichloropropene	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
trans-1,3-Dichloropropene	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
Dichlorotetrafluoroethane	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
Ethanol	5.3		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
Ethylbenzene	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
Heon 113	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
Hexachlorobutadiene	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
Methyl tert-Butyl Ether	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
4-Methyl-2-pentanone	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
Methylene Chloride	0.2	J	0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
Naphthalene	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
Propylene	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
Styrene	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
1,1,2,2-Tetrachloroethane	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
Tetrachloroethane	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5350



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-091212-2C0	Lab ID: 1209002-22
Sample Matrix: Air	Date Collected: 09/12/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SCDF#
Toluene	42		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
1,2,4-Trichlorobenzene	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
1,1,1-Trichloroethane	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
1,1,2-Trichloroethane	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
Trichloroethene	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
Trichlorofluoromethane	0.3	J	0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
1,2,4-Trimethylbenzene	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
1,3,5-Trimethylbenzene	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
Vinyl chloride	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
m,p-Xylene	U		1.0	1	09/19/12	09/19/12 20:27	TO-15R3 QA230
o-Xylene	U		0.5	1	09/19/12	09/19/12 20:27	TO-15R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery Limit	%Recovery Limit	Prepared	Analyzed	Method/SCDF#
<i>Surrogate: Bromofluorobenzene</i>	9.66		95 %	80-120	09/19/12	09/19/12 20:27	TO-15R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-091212-3	Lab ID: 1209002-23
Sample Matrix: Air	Date Collected: 09/12/2012

**Volatile Organic Compounds
Targets**

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analyzed	Method/CPM#
Benzene	0.3	J	0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
Benzyl chloride	U		0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
Bromodichloromethane	U		0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
Bromoform	U		0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
Bromomethane	U		0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
1,3-Butadiene	U		0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
2-Butanone	0.4	J	0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
Carbon disulfide	U		0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
Carbon Tetrachloride	U		0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
Chlorobenzene	U		0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
Chloroethane	U		0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
Chloroform	U		0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
Chloromethane	0.8		0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
Dibromochloromethane	U		0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
1,2-Dibromoethane (EDB)	U		0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
1,2-Dichlorobenzene	U		0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
1,3-Dichlorobenzene	U		0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
1,4-Dichlorobenzene	U		0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
Dichlorodifluoromethane	0.7		0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
1,1-Dichloroethane	U		0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
1,2-Dichloroethane	U		0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
1,1-Dichloroethene	U		0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
cis-1,2-Dichloroethene	U		0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
trans-1,2-Dichloroethene	U		0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
1,2-Dichloropropene	U		0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
cis-1,3-Dichloropropene	U		0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
trans-1,3-Dichloropropene	U		0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
Dichlorotetrafluoroethane	U		0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
Ethanol	U		0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
Ethylbenzene	U		0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
Freon 113	U		0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
Hexachlorobutadiene	U		0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
Methyl tert-Butyl Ether	U		0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
4-Methyl-2-pentanone	U		0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
Methylene Chloride	0.2	J	0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
Naphthalene	U		0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
Propylene	U		0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
Styrene	U		0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
1,1,2,2-Tetrachloroethane	U		0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230
Tetrachloroethene	U		0.5	1	09/19/12	09/19/12 21:13	TO-15R3 Q4230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-091212-3	Lab ID: 1209002-23
Sample Matrix: Air	Date Collected: 09/12/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result ppbv	Flag Qualifier	Quantitation		Prepared	Analyzed	Method/CDM#
			Limit	Dilution			
Toluene	3.9		0.5	1	09/19/12	09/19/12 21:13	TO-15/R3 QA230
1,2,4-Trichlorobenzene	U		0.5	1	09/19/12	09/19/12 21:13	TO-15/R3 QA230
1,1,1-Trichloroethane	U		0.5	1	09/19/12	09/19/12 21:13	TO-15/R3 QA230
1,1,2-Trichloroethane	U		0.5	1	09/19/12	09/19/12 21:13	TO-15/R3 QA230
Trichloroethene	U		0.5	1	09/19/12	09/19/12 21:13	TO-15/R3 QA230
Trichlorofluoromethane	0.3	J	0.5	1	09/19/12	09/19/12 21:13	TO-15/R3 QA230
1,2,4-Trimethylbenzene	U		0.5	1	09/19/12	09/19/12 21:13	TO-15/R3 QA230
1,3,5-Trimethylbenzene	U		0.5	1	09/19/12	09/19/12 21:13	TO-15/R3 QA230
Vinyl chloride	U		0.5	1	09/19/12	09/19/12 21:13	TO-15/R3 QA230
m,p-Xylene	U		1.0	1	09/19/12	09/19/12 21:13	TO-15/R3 QA230
o-Xylene	U		0.5	1	09/19/12	09/19/12 21:13	TO-15/R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery		Prepared	Analyzed	Method/CDM#
			%Recovery	Limit			
<i>Surrogate: Bromofluorobenzene</i>	9.58		96 %	80-120	09/19/12	09/19/12 21:13	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-091212	Lab ID: 1209002-24
Sample Matrix: Air	Date Collected: 09/12/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analysed	Method/SCM#
Benzene	0.2	J	0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
Benzyl chloride	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
Bromodichloromethane	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
Bromofom	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
Bromomethane	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
1,3-Butadiene	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
2-Butanone	0.2	J	0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
Carbon disulfide	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
Carbon Tetrachloride	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
Chlorobenzene	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
Chloroethane	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
Chloroform	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
Chloromethane	0.7		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
Dibromodichloromethane	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
1,2-Dibromoethane (EDB)	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
1,2-Dichlorobenzene	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
1,3-Dichlorobenzene	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
1,4-Dichlorobenzene	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
Dichlorodifluoromethane	0.7		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
1,1-Dichloroethane	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
1,2-Dichloroethane	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
1,1-Dichloroethene	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
cis-1,2-Dichloroethene	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
trans-1,2-Dichloroethene	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
1,2-Dichloropropane	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
cis-1,3-Dichloropropene	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
trans-1,3-Dichloropropene	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
Dichlorotetrafluoroethane	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
Ethanol	5.3		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
Ethylbenzene	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
Heon 113	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
Hexachlorobutadiene	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
Methyl tert-Butyl Ether	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
4-Methyl-2-pentanone	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
Methylene Chloride	0.2	J	0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
Naphthalene	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
Propylene	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
Styrene	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
1,1,2,2-Tetrachloroethane	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
Tetrachloroethene	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-091212	Lab ID: 1209002-24
Sample Matrix: Air	Date Collected: 09/12/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result ppbv	Flag Qualifier	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SCM#
Toluene	0.7		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
1,2,4-Trichlorobenzene	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
1,1,1-Trichloroethane	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
1,1,2-Trichloroethane	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
Trichloroethene	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
Trichlorofluoromethane	0.3	J	0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
1,2,4-Trimethylbenzene	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
1,3,5-Trimethylbenzene	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
Vinyl chloride	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
m,p-Xylene	U		1.0	1	09/19/12	09/19/12 21:56	TO-15R3 QA230
o-Xylene	U		0.5	1	09/19/12	09/19/12 21:56	TO-15R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	Limit	Prepared	Analyzed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	949		95 %	80-120	09/19/12	09/19/12 21:56	TO-15R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-091512-1	Lab ID: 1209016-01
Sample Matrix: Air	Date Collected: 09/15/2012

Volatile Organic Compounds
 Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Benzene	0.7	0.2	0.5	J	1	10/04/12 21.02	TO-15/E3 QA230
Benzyl chloride	U	U	0.5	U	1	10/04/12 21.02	TO-15/E3 QA230
Bromodichloromethane	U	U	0.5		1	10/04/12 21.02	TO-15/E3 QA230
Bromoforn	U	U	0.5		1	10/04/12 21.02	TO-15/E3 QA230
Bromomethane	U	U	0.5		1	10/04/12 21.02	TO-15/E3 QA230
1,3-Butadiene	U	U	0.5		1	10/04/12 21.02	TO-15/E3 QA230
2-Butanone	0.7	0.2	0.5	J	1	10/04/12 21.02	TO-15/E3 QA230
Carbon disulfide	U	U	0.5	UL	1	10/04/12 21.02	TO-15/E3 QA230
Carbon Tetrachloride	U	U	0.5		1	10/04/12 21.02	TO-15/E3 QA230
Chlorobenzene	U	U	0.5		1	10/04/12 21.02	TO-15/E3 QA230
Chloroethane	U	U	0.5		1	10/04/12 21.02	TO-15/E3 QA230
Chloroform	U	U	0.5		1	10/04/12 21.02	TO-15/E3 QA230
Chloromethane	1.4	0.7	0.5		1	10/04/12 21.02	TO-15/E3 QA230
Dibromochloromethane	U	U	0.5		1	10/04/12 21.02	TO-15/E3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/04/12 21.02	TO-15/E3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/04/12 21.02	TO-15/E3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/04/12 21.02	TO-15/E3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/04/12 21.02	TO-15/E3 QA230
Dichlorodifluoromethane	2.5	0.5	0.5		1	10/04/12 21.02	TO-15/E3 QA230
1,1-Dichloroethane	U	U	0.5		1	10/04/12 21.02	TO-15/E3 QA230
1,2-Dichloroethane	U	U	0.5		1	10/04/12 21.02	TO-15/E3 QA230
1,1-Dichloroethene	U	U	0.5		1	10/04/12 21.02	TO-15/E3 QA230
cis-1,2-Dichloroethane	U	U	0.5		1	10/04/12 21.02	TO-15/E3 QA230
trans-1,2-Dichloroethane	U	U	0.5		1	10/04/12 21.02	TO-15/E3 QA230
1,2-Dichloropropene	U	U	0.5		1	10/04/12 21.02	TO-15/E3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/04/12 21.02	TO-15/E3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/04/12 21.02	TO-15/E3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/04/12 21.02	TO-15/E3 QA230
Ethanol	10.7	5.6	0.5	K	1	10/04/12 21.02	TO-15/E3 QA230
Ethylbenzene	U	U	0.5		1	10/04/12 21.02	TO-15/E3 QA230
Freon 113	U	U	0.5		1	10/04/12 21.02	TO-15/E3 QA230
Hexachlorobutadiene	U	U	0.5		1	10/04/12 21.02	TO-15/E3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/04/12 21.02	TO-15/E3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/04/12 21.02	TO-15/E3 QA230
Methylene Chloride	U	U	0.5		1	10/04/12 21.02	TO-15/E3 QA230
Naphthalene	U	U	0.5		1	10/04/12 21.02	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-091512-1	Lab ID: 1209016-01
Sample Matrix: Air	Date Collected: 09/15/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDH
Propylene	U	U	0.5		1	10/04/12 21:02	TO-15/E3 QA230
Styrene	U	U	0.5		1	10/04/12 21:02	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/04/12 21:02	TO-15/E3 QA230
Tetrachloroethene	U	U	0.5		1	10/04/12 21:02	TO-15/E3 QA230
Toluene	9.5	2.5	0.5		1	10/04/12 21:02	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/04/12 21:02	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/04/12 21:02	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/04/12 21:02	TO-15/E3 QA230
Trichloroethene	U	U	0.5		1	10/04/12 21:02	TO-15/E3 QA230
Trichlorofluoromethane	1.2	0.2	0.5	J	1	10/04/12 21:02	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/04/12 21:02	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/04/12 21:02	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	10/04/12 21:02	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	10/04/12 21:02	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	10/04/12 21:02	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Prepared	Analysed	Method/SCDH
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Surrogate: Bromofluorobenzene 9.12 **91%** 80-120 10/04/12 10/04/12 21:02 TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-091512-2	Lab ID: 1209016-02
Sample Matrix: Air	Date Collected: 09/15/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Benzene	0.8	0.3	0.5	J	1	10/04/12 21:46	TO-15/R3 QA230
Benzyl chloride	U	U	0.5	U	1	10/04/12 21:46	TO-15/R3 QA230
Bromodichloromethane	U	U	0.5		1	10/04/12 21:46	TO-15/R3 QA230
Bromoform	U	U	0.5		1	10/04/12 21:46	TO-15/R3 QA230
Bromoethane	U	U	0.5		1	10/04/12 21:46	TO-15/R3 QA230
1,3-Butadiene	U	U	0.5		1	10/04/12 21:46	TO-15/R3 QA230
2-Butanone	1.0	0.3	0.5	J	1	10/04/12 21:46	TO-15/R3 QA230
Carbon disulfide	U	U	0.5	UL	1	10/04/12 21:46	TO-15/R3 QA230
Carbon Tetrachloride	U	U	0.5		1	10/04/12 21:46	TO-15/R3 QA230
Chlorobenzene	U	U	0.5		1	10/04/12 21:46	TO-15/R3 QA230
Chloroethane	U	U	0.5		1	10/04/12 21:46	TO-15/R3 QA230
Chloroform	2.9	0.6	0.5		1	10/04/12 21:46	TO-15/R3 QA230
Chloromethane	1.5	0.7	0.5		1	10/04/12 21:46	TO-15/R3 QA230
Dibromochloromethane	U	U	0.5		1	10/04/12 21:46	TO-15/R3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/04/12 21:46	TO-15/R3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/04/12 21:46	TO-15/R3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/04/12 21:46	TO-15/R3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/04/12 21:46	TO-15/R3 QA230
Dichlorodifluoromethane	2.5	0.5	0.5		1	10/04/12 21:46	TO-15/R3 QA230
1,1-Dichloroethane	U	U	0.5		1	10/04/12 21:46	TO-15/R3 QA230
1,2-Dichloroethane	U	U	0.5		1	10/04/12 21:46	TO-15/R3 QA230
1,1-Dichloroethene	U	U	0.5		1	10/04/12 21:46	TO-15/R3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	10/04/12 21:46	TO-15/R3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	10/04/12 21:46	TO-15/R3 QA230
1,2-Dichloropropane	U	U	0.5		1	10/04/12 21:46	TO-15/R3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/04/12 21:46	TO-15/R3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/04/12 21:46	TO-15/R3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/04/12 21:46	TO-15/R3 QA230
Ethanol	15.8	8.3	0.5	K	1	10/04/12 21:46	TO-15/R3 QA230
Ethylbenzene	U	U	0.5		1	10/04/12 21:46	TO-15/R3 QA230
Freon 113	U	U	0.5		1	10/04/12 21:46	TO-15/R3 QA230
Hexachlorobutadiene	U	U	0.5		1	10/04/12 21:46	TO-15/R3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/04/12 21:46	TO-15/R3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/04/12 21:46	TO-15/R3 QA230
Methylene Chloride	U	U	0.5		1	10/04/12 21:46	TO-15/R3 QA230
Naphthalene	U	U	0.5		1	10/04/12 21:46	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-091512-2	Lab ID: 1209016-02
Sample Matrix: Air	Date Collected: 09/15/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF#
Propylene	U	U	0.5		1	10/04/12 21.46	TO-15/R3 Q4230
Styrene	U	U	0.5		1	10/04/12 21.46	TO-15/R3 Q4230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/04/12 21.46	TO-15/R3 Q4230
Tetrachloroethane	U	U	0.5		1	10/04/12 21.46	TO-15/R3 Q4230
Toluene	159	42	0.5	K	1	10/04/12 21.46	TO-15/R3 Q4230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/04/12 21.46	TO-15/R3 Q4230
1,1,1-Trichloroethane	U	U	0.5		1	10/04/12 21.46	TO-15/R3 Q4230
1,1,2-Trichloroethane	U	U	0.5		1	10/04/12 21.46	TO-15/R3 Q4230
Trichloroethane	U	U	0.5		1	10/04/12 21.46	TO-15/R3 Q4230
Trichlorofluoromethane	1.2	0.2	0.5	J	1	10/04/12 21.46	TO-15/R3 Q4230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/04/12 21.46	TO-15/R3 Q4230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/04/12 21.46	TO-15/R3 Q4230
Vinyl chloride	U	U	0.5		1	10/04/12 21.46	TO-15/R3 Q4230
m,p-Xylene	U	U	1.0		1	10/04/12 21.46	TO-15/R3 Q4230
o-Xylene	U	U	0.5		1	10/04/12 21.46	TO-15/R3 Q4230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limits	Expanded	Analysed	Method/SCDF#
<i>Surrogate: Bromofluorobenzene</i>	9.04		90%	80-120	10/04/12	10/04/12 21.46	TO-15/R3 Q4230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-091512-2C0	Lab ID: 1209016-03
Sample Matrix: Air	Date Collected: 09/15/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualities	Dilution	Analysis	Method/SCM#
Benzene	0.8	0.3	0.5	J	1	10/04/12 22:29	TO-15/F3 QA230
Benzyl chloride	U	U	0.5	UJ	1	10/04/12 22:29	TO-15/F3 QA230
Bromodichloromethane	U	U	0.5		1	10/04/12 22:29	TO-15/F3 QA230
Bromofom	U	U	0.5		1	10/04/12 22:29	TO-15/F3 QA230
Bromomethane	U	U	0.5		1	10/04/12 22:29	TO-15/F3 QA230
1,3-Butadiene	U	U	0.5		1	10/04/12 22:29	TO-15/F3 QA230
2-Butanone	0.8	0.3	0.5	J	1	10/04/12 22:29	TO-15/F3 QA230
Carbon disulfide	U	U	0.5	UL	1	10/04/12 22:29	TO-15/F3 QA230
Carbon Tetrachloride	U	U	0.5		1	10/04/12 22:29	TO-15/F3 QA230
Chlorobenzene	U	U	0.5		1	10/04/12 22:29	TO-15/F3 QA230
Chloroethane	U	U	0.5		1	10/04/12 22:29	TO-15/F3 QA230
Chloroform	U	U	0.5		1	10/04/12 22:29	TO-15/F3 QA230
Chloromethane	1.5	0.7	0.5		1	10/04/12 22:29	TO-15/F3 QA230
Dibromochloromethane	U	U	0.5		1	10/04/12 22:29	TO-15/F3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/04/12 22:29	TO-15/F3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/04/12 22:29	TO-15/F3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/04/12 22:29	TO-15/F3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/04/12 22:29	TO-15/F3 QA230
Dichlorodifluoromethane	2.5	0.5	0.5		1	10/04/12 22:29	TO-15/F3 QA230
1,1-Dichloroethane	U	U	0.5		1	10/04/12 22:29	TO-15/F3 QA230
1,2-Dichloroethane	U	U	0.5		1	10/04/12 22:29	TO-15/F3 QA230
1,1-Dichloroethene	U	U	0.5		1	10/04/12 22:29	TO-15/F3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	10/04/12 22:29	TO-15/F3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	10/04/12 22:29	TO-15/F3 QA230
1,2-Dichloropropane	U	U	0.5		1	10/04/12 22:29	TO-15/F3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/04/12 22:29	TO-15/F3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/04/12 22:29	TO-15/F3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/04/12 22:29	TO-15/F3 QA230
Ethanol	211	11.1	0.5	K	1	10/04/12 22:29	TO-15/F3 QA230
Ethylbenzene	U	U	0.5		1	10/04/12 22:29	TO-15/F3 QA230
Freon 113	U	U	0.5		1	10/04/12 22:29	TO-15/F3 QA230
Hexachlorobutadiene	U	U	0.5		1	10/04/12 22:29	TO-15/F3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/04/12 22:29	TO-15/F3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/04/12 22:29	TO-15/F3 QA230
Methylene Chloride	U	U	0.5		1	10/04/12 22:29	TO-15/F3 QA230
Naphthalene	U	U	0.5		1	10/04/12 22:29	TO-15/F3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5390



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-091512-2C0	Lab ID: 1209016-03
Sample Matrix: Air	Date Collected: 09/15/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifiers	Dilution	Analysed	Method/SCDF
Propylene	U	U	0.5		1	10/04/12 22 29	TO-15/E3 QA230
Styrene	U	U	0.5		1	10/04/12 22 29	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/04/12 22 29	TO-15/E3 QA230
Tetrachloroethene	U	U	0.5		1	10/04/12 22 29	TO-15/E3 QA230
Toluene	5.1	13	0.5		1	10/04/12 22 29	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/04/12 22 29	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/04/12 22 29	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/04/12 22 29	TO-15/E3 QA230
Trichloroethene	U	U	0.5		1	10/04/12 22 29	TO-15/E3 QA230
Trichlorofluoromethane	1.2	0.2	0.5	J	1	10/04/12 22 29	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/04/12 22 29	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/04/12 22 29	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	10/04/12 22 29	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	10/04/12 22 29	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	10/04/12 22 29	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifiers	%Recovery Limit	Expanded	Analysed	Method/SCDF
<i>Surrogate: Bromofluorobenzene</i>	9.00		90%	80-120	10/04/12	10/04/12 22 29 TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-091512-3	Lab ID: 1209016-04
Sample Matrix: Air	Date Collected: 09/15/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualities	Dilution	Analysis	Method/SCM#
Benzene	1.0	0.3	0.5	J	1	10/04/12 23:13	TO-15/R3 QA230
Benzyl chloride	U	U	0.5	UJ	1	10/04/12 23:13	TO-15/R3 QA230
Bromodichloromethane	U	U	0.5		1	10/04/12 23:13	TO-15/R3 QA230
Bromoform	U	U	0.5		1	10/04/12 23:13	TO-15/R3 QA230
Bromoethane	U	U	0.5		1	10/04/12 23:13	TO-15/R3 QA230
1,3-Butadiene	U	U	0.5		1	10/04/12 23:13	TO-15/R3 QA230
2-Butanone	0.8	0.3	0.5	J	1	10/04/12 23:13	TO-15/R3 QA230
Carbon disulfide	U	U	0.5	UL	1	10/04/12 23:13	TO-15/R3 QA230
Carbon Tetrachloride	U	U	0.5		1	10/04/12 23:13	TO-15/R3 QA230
Chlorobenzene	U	U	0.5		1	10/04/12 23:13	TO-15/R3 QA230
Chloroethane	U	U	0.5		1	10/04/12 23:13	TO-15/R3 QA230
Chloroform	1.4	0.3	0.5	J	1	10/04/12 23:13	TO-15/R3 QA230
Chloromethane	1.6	0.8	0.5		1	10/04/12 23:13	TO-15/R3 QA230
Dibromochloromethane	U	U	0.5		1	10/04/12 23:13	TO-15/R3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/04/12 23:13	TO-15/R3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/04/12 23:13	TO-15/R3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/04/12 23:13	TO-15/R3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/04/12 23:13	TO-15/R3 QA230
Dichlorodifluoromethane	2.7	0.5	0.5		1	10/04/12 23:13	TO-15/R3 QA230
1,1-Dichloroethane	U	U	0.5		1	10/04/12 23:13	TO-15/R3 QA230
1,2-Dichloroethane	U	U	0.5		1	10/04/12 23:13	TO-15/R3 QA230
1,1-Dichloroethene	U	U	0.5		1	10/04/12 23:13	TO-15/R3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	10/04/12 23:13	TO-15/R3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	10/04/12 23:13	TO-15/R3 QA230
1,2-Dichloropropene	U	U	0.5		1	10/04/12 23:13	TO-15/R3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/04/12 23:13	TO-15/R3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/04/12 23:13	TO-15/R3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/04/12 23:13	TO-15/R3 QA230
Ethanol	16.9	8.9	0.5	K	1	10/04/12 23:13	TO-15/R3 QA230
Ethylbenzene	U	U	0.5		1	10/04/12 23:13	TO-15/R3 QA230
Heon 113	U	U	0.5		1	10/04/12 23:13	TO-15/R3 QA230
Hexachlorobutadiene	U	U	0.5		1	10/04/12 23:13	TO-15/R3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/04/12 23:13	TO-15/R3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/04/12 23:13	TO-15/R3 QA230
Methylene Chloride	U	U	0.5		1	10/04/12 23:13	TO-15/R3 QA230
Naphthalene	U	U	0.5		1	10/04/12 23:13	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5350



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-091512-3	Lab ID: 1209016-04
Sample Matrix: Air	Date Collected: 09/15/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDW
Propylene	U	U	0.5		1	10/04/12 23:13	TO-15/RS QA230
Styrene	U	U	0.5		1	10/04/12 23:13	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/04/12 23:13	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	10/04/12 23:13	TO-15/RS QA230
Toluene	12.8	3.4	0.5		1	10/04/12 23:13	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/04/12 23:13	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/04/12 23:13	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/04/12 23:13	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	10/04/12 23:13	TO-15/RS QA230
Trichlorofluoromethane	1.2	0.2	0.5	J	1	10/04/12 23:13	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/04/12 23:13	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/04/12 23:13	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	10/04/12 23:13	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	10/04/12 23:13	TO-15/RS QA230
o-Xylene	U	U	0.5		1	10/04/12 23:13	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Encoway Limit	Expanded	Analysed	Method/SCDW
<i>Surrogate: Bromofluorobenzene</i>	9.08		91 %	80-120	10/04/12	10/04/12 23:13	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-091912-1	Lab ID: 1209016-05
Sample Matrix: Air	Date Collected: 09/19/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/SCM#
Benzene	U	U	0.5		1	10/04/12 23:57	TO-15/RS QA230
Benzyl chloride	U	U	0.5	U	1	10/04/12 23:57	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	10/04/12 23:57	TO-15/RS QA230
Bromoform	U	U	0.5		1	10/04/12 23:57	TO-15/RS QA230
Bromoethane	U	U	0.5		1	10/04/12 23:57	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	10/04/12 23:57	TO-15/RS QA230
2-Butanone	U	U	0.5		1	10/04/12 23:57	TO-15/RS QA230
Carbon disulfide	U	U	0.5	UL	1	10/04/12 23:57	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	10/04/12 23:57	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	10/04/12 23:57	TO-15/RS QA230
Chloroethane	U	U	0.5		1	10/04/12 23:57	TO-15/RS QA230
Chloroform	U	U	0.5		1	10/04/12 23:57	TO-15/RS QA230
Chloroethane	1.4	0.7	0.5		1	10/04/12 23:57	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	10/04/12 23:57	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/04/12 23:57	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/04/12 23:57	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/04/12 23:57	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/04/12 23:57	TO-15/RS QA230
Dichlorodifluoromethane	2.5	0.5	0.5		1	10/04/12 23:57	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	10/04/12 23:57	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	10/04/12 23:57	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	10/04/12 23:57	TO-15/RS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	10/04/12 23:57	TO-15/RS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	10/04/12 23:57	TO-15/RS QA230
1,2-Dichloropropene	U	U	0.5		1	10/04/12 23:57	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/04/12 23:57	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/04/12 23:57	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/04/12 23:57	TO-15/RS QA230
Ethanol	6.2	3.3	0.5	K	1	10/04/12 23:57	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	10/04/12 23:57	TO-15/RS QA230
Freon 113	U	U	0.5		1	10/04/12 23:57	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	10/04/12 23:57	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/04/12 23:57	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/04/12 23:57	TO-15/RS QA230
Methylene Chloride	U	U	0.5		1	10/04/12 23:57	TO-15/RS QA230
Naphthalene	U	U	0.5		1	10/04/12 23:57	TO-15/RS QA230
Propylene	U	U	0.5		1	10/04/12 23:57	TO-15/RS QA230

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-091912-1	Lab ID: 1209016-05
Sample Matrix: Air	Date Collected: 09/19/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifies	Dilution	Analysed	Method/SCM#
Styrene	U	U	0.5		1	10/04/12 23:57	TO-15/R3 Q4230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/04/12 23:57	TO-15/R3 Q4230
Tetrachloroethene	U	U	0.5		1	10/04/12 23:57	TO-15/R3 Q4230
Toluene	4.4	12	0.5		1	10/04/12 23:57	TO-15/R3 Q4230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/04/12 23:57	TO-15/R3 Q4230
1,1,1-Trichloroethane	U	U	0.5		1	10/04/12 23:57	TO-15/R3 Q4230
1,1,2-Trichloroethane	U	U	0.5		1	10/04/12 23:57	TO-15/R3 Q4230
Trichloroethene	U	U	0.5		1	10/04/12 23:57	TO-15/R3 Q4230
Trichlorofluoromethane	1.2	0.2	0.5	J	1	10/04/12 23:57	TO-15/R3 Q4230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/04/12 23:57	TO-15/R3 Q4230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/04/12 23:57	TO-15/R3 Q4230
Vinyl chloride	U	U	0.5		1	10/04/12 23:57	TO-15/R3 Q4230
m,p-Xylene	U	U	1.0		1	10/04/12 23:57	TO-15/R3 Q4230
o-Xylene	U	U	0.5		1	10/04/12 23:57	TO-15/R3 Q4230

Surrogates

Analyte	Result ppbv	Flag Qualifies	%Recovery	%Recovery Limit	Prepared	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.00		90%	80-120	10/04/12	10/04/12 23:57	TO-15/R3 Q4230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-091912-2	Lab ID: 1209016-06
Sample Matrix: Air	Date Collected: 09/19/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/CDM#
Benzene	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
Benzyl chloride	U	U	0.5	U	1	10/05/12 00:40	TO-15/E3 QA230
Bromodichloromethane	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
Bromoform	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
Bromomethane	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
1,3-Butadiene	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
2-Butanone	0.5	0.2	0.5	J	1	10/05/12 00:40	TO-15/E3 QA230
Carbon disulfide	U	U	0.5	UL	1	10/05/12 00:40	TO-15/E3 QA230
Carbon Tetrachloride	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
Chlorobenzene	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
Chloroethane	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
Chloroform	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
Chloromethane	1.4	0.7	0.5		1	10/05/12 00:40	TO-15/E3 QA230
Dibromochloromethane	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
Dichlorodifluoromethane	2.6	0.5	0.5		1	10/05/12 00:40	TO-15/E3 QA230
1,1-Dichloroethane	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
1,2-Dichloroethane	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
1,1-Dichloroethene	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
cis-1,2-Dichloroethane	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
trans-1,2-Dichloroethane	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
1,2-Dichloropropane	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
Ethanol	10.0	5.3	0.5	K	1	10/05/12 00:40	TO-15/E3 QA230
Ethylbenzene	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
Freon 113	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
Hexachlorobutadiene	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
Methylene Chloride	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
Naphthalene	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
Propylene	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-091912-2	Lab ID: 1209016-06
Sample Matrix: Air	Date Collected: 09/19/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCIF#
Styrene	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
Tetrachloroethene	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
Toluene	4.3	1.1	0.5		1	10/05/12 00:40	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
Trichloroethene	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
Trichlorofluoromethane	1.2	0.2	0.5	J	1	10/05/12 00:40	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	10/05/12 00:40	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	10/05/12 00:40	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCIF#
<i>Surrogate: Bromofluorobenzene</i>	9.06		91%	80-120	10/04/12	10/05/12 00:40	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5390



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-091912-2C0	Lab ID: 1209016-07
Sample Matrix: Air	Date Collected: 09/19/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/DOE#
Benzene	0.5	0.2	0.5	J	1	10/05/12/01/23	TO-15/FS Q4230
Benzyl chloride	U	U	0.5	U	1	10/05/12/01/23	TO-15/FS Q4230
Bromodichloromethane	U	U	0.5		1	10/05/12/01/23	TO-15/FS Q4230
Bromoforn	U	U	0.5		1	10/05/12/01/23	TO-15/FS Q4230
Bromomethane	U	U	0.5		1	10/05/12/01/23	TO-15/FS Q4230
1,3-Butadiene	U	U	0.5		1	10/05/12/01/23	TO-15/FS Q4230
2-Butanone	U	U	0.5		1	10/05/12/01/23	TO-15/FS Q4230
Carbon disulfide	U	U	0.5	UL	1	10/05/12/01/23	TO-15/FS Q4230
Carbon Tetrachloride	U	U	0.5		1	10/05/12/01/23	TO-15/FS Q4230
Chlorobenzene	U	U	0.5		1	10/05/12/01/23	TO-15/FS Q4230
Chloroethane	U	U	0.5		1	10/05/12/01/23	TO-15/FS Q4230
Chloroform	U	U	0.5		1	10/05/12/01/23	TO-15/FS Q4230
Chloromethane	1.4	0.7	0.5		1	10/05/12/01/23	TO-15/FS Q4230
Dibromochloromethane	U	U	0.5		1	10/05/12/01/23	TO-15/FS Q4230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/05/12/01/23	TO-15/FS Q4230
1,2-Dichlorobenzene	U	U	0.5		1	10/05/12/01/23	TO-15/FS Q4230
1,3-Dichlorobenzene	U	U	0.5		1	10/05/12/01/23	TO-15/FS Q4230
1,4-Dichlorobenzene	U	U	0.5		1	10/05/12/01/23	TO-15/FS Q4230
Dichlorodifluoromethane	2.5	0.5	0.5		1	10/05/12/01/23	TO-15/FS Q4230
1,1-Dichloroethane	U	U	0.5		1	10/05/12/01/23	TO-15/FS Q4230
1,2-Dichloroethane	U	U	0.5		1	10/05/12/01/23	TO-15/FS Q4230
1,1-Dichloroethene	U	U	0.5		1	10/05/12/01/23	TO-15/FS Q4230
cis-1,2-Dichloroethene	U	U	0.5		1	10/05/12/01/23	TO-15/FS Q4230
trans-1,2-Dichloroethene	U	U	0.5		1	10/05/12/01/23	TO-15/FS Q4230
1,2-Dichloropropene	U	U	0.5		1	10/05/12/01/23	TO-15/FS Q4230
cis-1,3-Dichloropropene	U	U	0.5		1	10/05/12/01/23	TO-15/FS Q4230
trans-1,3-Dichloropropene	U	U	0.5		1	10/05/12/01/23	TO-15/FS Q4230
Dichlorotetrafluoroethane	U	U	0.5		1	10/05/12/01/23	TO-15/FS Q4230
Ethanol	7.4	3.9	0.5	K	1	10/05/12/01/23	TO-15/FS Q4230
Ethylbenzene	U	U	0.5		1	10/05/12/01/23	TO-15/FS Q4230
Heon 113	U	U	0.5		1	10/05/12/01/23	TO-15/FS Q4230
Hexachlorobutadiene	U	U	0.5		1	10/05/12/01/23	TO-15/FS Q4230
Methyl tert-Butyl Ether	U	U	0.5		1	10/05/12/01/23	TO-15/FS Q4230
4-Methyl-2-pentanone	U	U	0.5		1	10/05/12/01/23	TO-15/FS Q4230
Methylene Chloride	U	U	0.5		1	10/05/12/01/23	TO-15/FS Q4230
Naphthalene	U	U	0.5		1	10/05/12/01/23	TO-15/FS Q4230
Propylene	U	U	0.5		1	10/05/12/01/23	TO-15/FS Q4230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-091912-2C0	Lab ID: 1209016-07
Sample Matrix: Air	Date Collected: 09/19/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifies	Dilution	Analyzed	Method/SCM#
Styrene	U	U	0.5		1	10/05/12/01/23	TO-15/R3 Q4230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/05/12/01/23	TO-15/R3 Q4230
Tetrachloroethene	U	U	0.5		1	10/05/12/01/23	TO-15/R3 Q4230
Toluene	1.8	0.5	0.5		1	10/05/12/01/23	TO-15/R3 Q4230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/05/12/01/23	TO-15/R3 Q4230
1,1,1-Trichloroethane	U	U	0.5		1	10/05/12/01/23	TO-15/R3 Q4230
1,1,2-Trichloroethane	U	U	0.5		1	10/05/12/01/23	TO-15/R3 Q4230
Trichloroethene	U	U	0.5		1	10/05/12/01/23	TO-15/R3 Q4230
Trichlorofluoromethane	1.2	0.2	0.5	J	1	10/05/12/01/23	TO-15/R3 Q4230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/05/12/01/23	TO-15/R3 Q4230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/05/12/01/23	TO-15/R3 Q4230
Vinyl chloride	U	U	0.5		1	10/05/12/01/23	TO-15/R3 Q4230
m,p-Xylene	U	U	1.0		1	10/05/12/01/23	TO-15/R3 Q4230
o-Xylene	U	U	0.5		1	10/05/12/01/23	TO-15/R3 Q4230

Surrogates

Analyte	Result ppbv	Flag Qualifies	%Recovery	%Recovery Limits	Expanded	Analyzed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.00		90%	80-120	100%±12	10/05/12/01/23	TO-15/R3/Q4230

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Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-091912-3	Lab ID: 1209016-08
Sample Matrix: Air	Date Collected: 09/19/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM
Benzene	U	U	0.5		1	10/05/12 02:05	TO-15/R3 QA230
Benzyl chloride	U	U	0.5	UF	1	10/05/12 02:05	TO-15/R3 QA230
Bromodichloroethane	U	U	0.5		1	10/05/12 02:05	TO-15/R3 QA230
Bromoform	U	U	0.5		1	10/05/12 02:05	TO-15/R3 QA230
Bromoethane	U	U	0.5		1	10/05/12 02:05	TO-15/R3 QA230
1,3-Butadiene	U	U	0.5		1	10/05/12 02:05	TO-15/R3 QA230
2-Butanone	0.8	0.3	0.5	J	1	10/05/12 02:05	TO-15/R3 QA230
Carbon disulfide	U	U	0.5	UL	1	10/05/12 02:05	TO-15/R3 QA230
Carbon Tetrachloride	U	U	0.5		1	10/05/12 02:05	TO-15/R3 QA230
Chlorobenzene	U	U	0.5		1	10/05/12 02:05	TO-15/R3 QA230
Chloroethane	U	U	0.5		1	10/05/12 02:05	TO-15/R3 QA230
Chloroform	U	U	0.5		1	10/05/12 02:05	TO-15/R3 QA230
Chloroethane	1.4	0.7	0.5		1	10/05/12 02:05	TO-15/R3 QA230
Dibromochloroethane	U	U	0.5		1	10/05/12 02:05	TO-15/R3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/05/12 02:05	TO-15/R3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/05/12 02:05	TO-15/R3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/05/12 02:05	TO-15/R3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/05/12 02:05	TO-15/R3 QA230
Dichlorodifluoroethane	2.6	0.5	0.5		1	10/05/12 02:05	TO-15/R3 QA230
1,1-Dichloroethane	U	U	0.5		1	10/05/12 02:05	TO-15/R3 QA230
1,2-Dichloroethane	U	U	0.5		1	10/05/12 02:05	TO-15/R3 QA230
1,1-Dichloroethene	U	U	0.5		1	10/05/12 02:05	TO-15/R3 QA230
cis-1,2-Dichloroethane	U	U	0.5		1	10/05/12 02:05	TO-15/R3 QA230
trans-1,2-Dichloroethane	U	U	0.5		1	10/05/12 02:05	TO-15/R3 QA230
1,2-Dichloropropane	U	U	0.5		1	10/05/12 02:05	TO-15/R3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/05/12 02:05	TO-15/R3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/05/12 02:05	TO-15/R3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/05/12 02:05	TO-15/R3 QA230
Ethanol	7.6	4.0	0.5	K	1	10/05/12 02:05	TO-15/R3 QA230
Ethylbenzene	U	U	0.5		1	10/05/12 02:05	TO-15/R3 QA230
Freon 113	U	U	0.5		1	10/05/12 02:05	TO-15/R3 QA230
Hexachlorobutadiene	U	U	0.5		1	10/05/12 02:05	TO-15/R3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/05/12 02:05	TO-15/R3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/05/12 02:05	TO-15/R3 QA230
Methylene Chloride	U	U	0.5		1	10/05/12 02:05	TO-15/R3 QA230
Naphthalene	U	U	0.5		1	10/05/12 02:05	TO-15/R3 QA230
Propylene	U	U	0.5		1	10/05/12 02:05	TO-15/R3 QA230

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-091912-3	Lab ID: 1209016-08
Sample Matrix: Air	Date Collected: 09/19/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF
Styrene	U	U	0.5		1	10/05/12 02:05	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/05/12 02:05	TO-15/E3 QA230
Tetrachloroethene	U	U	0.5		1	10/05/12 02:05	TO-15/E3 QA230
Toluene	3.1	0.8	0.5		1	10/05/12 02:05	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/05/12 02:05	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/05/12 02:05	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/05/12 02:05	TO-15/E3 QA230
Trichloroethene	U	U	0.5		1	10/05/12 02:05	TO-15/E3 QA230
Trichlorofluoromethane	1.2	0.2	0.5	J	1	10/05/12 02:05	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/05/12 02:05	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/05/12 02:05	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	10/05/12 02:05	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	10/05/12 02:05	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	10/05/12 02:05	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Prepared	Analysed	Method/SCDF
<i>Surrogate: Bromofluorobenzene</i>	8.96		90%	80-120	10/04/12	10/05/12 02:05	TO-15/E3 QA230

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 Region 3 Environmental Science Center
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 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-091512	Lab ID: 1209016-09
Sample Matrix: Air	Date Collected: 09/15/2012

Volatile Organic Compounds
 Targets

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCEN
Benzene	0.7	0.2	0.5	J	1	1005/12/02/48	TO-15/RS QA230
Benzyl chloride	U	U	0.5	UJ	1	1005/12/02/48	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	1005/12/02/48	TO-15/RS QA230
Bromoforn	U	U	0.5		1	1005/12/02/48	TO-15/RS QA230
Bromomethane	U	U	0.5		1	1005/12/02/48	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	1005/12/02/48	TO-15/RS QA230
2-Butanone	0.8	0.3	0.5	J	1	1005/12/02/48	TO-15/RS QA230
Carbon disulfide	U	U	0.5	UL	1	1005/12/02/48	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	1005/12/02/48	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	1005/12/02/48	TO-15/RS QA230
Chloroethane	U	U	0.5		1	1005/12/02/48	TO-15/RS QA230
Chloroform	1.0	0.2	0.5	J	1	1005/12/02/48	TO-15/RS QA230
Chloromethane	1.5	0.7	0.5		1	1005/12/02/48	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	1005/12/02/48	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	1005/12/02/48	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	1005/12/02/48	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	1005/12/02/48	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	1005/12/02/48	TO-15/RS QA230
Dichlorodifluoromethane	2.5	0.5	0.5		1	1005/12/02/48	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	1005/12/02/48	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	1005/12/02/48	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	1005/12/02/48	TO-15/RS QA230
cis-1,2-Dichloroethane	U	U	0.5		1	1005/12/02/48	TO-15/RS QA230
trans-1,2-Dichloroethane	U	U	0.5		1	1005/12/02/48	TO-15/RS QA230
1,2-Dichloropropene	U	U	0.5		1	1005/12/02/48	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	1005/12/02/48	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	1005/12/02/48	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	1005/12/02/48	TO-15/RS QA230
Ethanol	15.2	8.0	0.5	K	1	1005/12/02/48	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	1005/12/02/48	TO-15/RS QA230
Freon 113	U	U	0.5		1	1005/12/02/48	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	1005/12/02/48	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	1005/12/02/48	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	1005/12/02/48	TO-15/RS QA230
Methylene Chloride	U	U	0.5		1	1005/12/02/48	TO-15/RS QA230
Naphthalene	U	U	0.5		1	1005/12/02/48	TO-15/RS QA230

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-091512	Lab ID: 1209016-09
Sample Matrix: Air	Date Collected: 09/15/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifiers	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	10/05/12 02:48	TO-15/E3 QA230
Styrene	U	U	0.5		1	10/05/12 02:48	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/05/12 02:48	TO-15/E3 QA230
Tetrachloroethene	U	U	0.5		1	10/05/12 02:48	TO-15/E3 QA230
Toluene	2.8	0.7	0.5		1	10/05/12 02:48	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/05/12 02:48	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/05/12 02:48	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/05/12 02:48	TO-15/E3 QA230
Trichloroethene	U	U	0.5		1	10/05/12 02:48	TO-15/E3 QA230
Trichlorofluoromethane	1.2	0.2	0.5	J	1	10/05/12 02:48	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/05/12 02:48	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/05/12 02:48	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	10/05/12 02:48	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	10/05/12 02:48	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	10/05/12 02:48	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifiers	%Recovery %Difference	Limit	Expanded	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.08		91%	80-120	1000.02	10/05/12 02:48	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



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 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-091912	Lab ID: 1209016-10
Sample Matrix: Air	Date Collected: 09/19/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/RCM#
Benzene	U	U	0.5		1	10/05/12 03:31	TO-15/RS QA230
Benzyl chloride	U	U	0.5	U	1	10/05/12 03:31	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	10/05/12 03:31	TO-15/RS QA230
Bromoform	U	U	0.5		1	10/05/12 03:31	TO-15/RS QA230
Bromomethane	U	U	0.5		1	10/05/12 03:31	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	10/05/12 03:31	TO-15/RS QA230
2-Butanone	U	U	0.5		1	10/05/12 03:31	TO-15/RS QA230
Carbon disulfide	U	U	0.5	UL	1	10/05/12 03:31	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	10/05/12 03:31	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	10/05/12 03:31	TO-15/RS QA230
Chloroethane	U	U	0.5		1	10/05/12 03:31	TO-15/RS QA230
Chloroform	U	U	0.5		1	10/05/12 03:31	TO-15/RS QA230
Chloromethane	1.4	0.7	0.5		1	10/05/12 03:31	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	10/05/12 03:31	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/05/12 03:31	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/05/12 03:31	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/05/12 03:31	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/05/12 03:31	TO-15/RS QA230
Dichlorodifluoromethane	2.7	0.5	0.5		1	10/05/12 03:31	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	10/05/12 03:31	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	10/05/12 03:31	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	10/05/12 03:31	TO-15/RS QA230
cis-1,2-Dichloroethane	U	U	0.5		1	10/05/12 03:31	TO-15/RS QA230
trans-1,2-Dichloroethane	U	U	0.5		1	10/05/12 03:31	TO-15/RS QA230
1,2-Dichloropropene	U	U	0.5		1	10/05/12 03:31	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/05/12 03:31	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/05/12 03:31	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/05/12 03:31	TO-15/RS QA230
Ethanol	5.3	2.8	0.5	K	1	10/05/12 03:31	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	10/05/12 03:31	TO-15/RS QA230
Freon 113	U	U	0.5		1	10/05/12 03:31	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	10/05/12 03:31	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/05/12 03:31	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/05/12 03:31	TO-15/RS QA230
Methylene Chloride	U	U	0.5		1	10/05/12 03:31	TO-15/RS QA230
Naphthalene	U	U	0.5		1	10/05/12 03:31	TO-15/RS QA230
Propylene	U	U	0.5		1	10/05/12 03:31	TO-15/RS QA230

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-091912	Lab ID: 1209016-10
Sample Matrix: Air	Date Collected: 09/19/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualitas	Dilution	Analyzed	Method/SCDH
Styrene	U	U	0.5		1	10/05/12 03 31	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/05/12 03 31	TO-15/E3 QA230
Tetrachloroethene	U	U	0.5		1	10/05/12 03 31	TO-15/E3 QA230
Toluene	0.9	0.2	0.5	J	1	10/05/12 03 31	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/05/12 03 31	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/05/12 03 31	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/05/12 03 31	TO-15/E3 QA230
Trichloroethene	U	U	0.5		1	10/05/12 03 31	TO-15/E3 QA230
Trichlorofluoromethane	1.2	0.2	0.5	J	1	10/05/12 03 31	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/05/12 03 31	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/05/12 03 31	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	10/05/12 03 31	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	10/05/12 03 31	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	10/05/12 03 31	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualitas	%Recovery	%Recovery Limit	Prepared	Analyzed	Method/SCDH
Surrogate: Bromofluorobenzene	9.00		90%	80-120	10/04/12	10/05/12 03 31	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-092212-1	Lab ID: 1209016-11
Sample Matrix: Air	Date Collected: 09/22/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Benzene	0.7	0.2	0.5	J	1	10/05/12 04:14	TO-15/E3 QA230
Benzyl chloride	U	U	0.5	UJ	1	10/05/12 04:14	TO-15/E3 QA230
Bromodichloromethane	U	U	0.5		1	10/05/12 04:14	TO-15/E3 QA230
Bromoform	U	U	0.5		1	10/05/12 04:14	TO-15/E3 QA230
Bromomethane	U	U	0.5		1	10/05/12 04:14	TO-15/E3 QA230
1,3-Butadiene	U	U	0.5		1	10/05/12 04:14	TO-15/E3 QA230
2-Butanone	0.8	0.3	0.5	J	1	10/05/12 04:14	TO-15/E3 QA230
Carbon disulfide	U	U	0.5	UL	1	10/05/12 04:14	TO-15/E3 QA230
Carbon Tetrachloride	U	U	0.5		1	10/05/12 04:14	TO-15/E3 QA230
Chlorobenzene	U	U	0.5		1	10/05/12 04:14	TO-15/E3 QA230
Chloroethane	U	U	0.5		1	10/05/12 04:14	TO-15/E3 QA230
Chloroform	U	U	0.5		1	10/05/12 04:14	TO-15/E3 QA230
Chloromethane	1.6	0.8	0.5		1	10/05/12 04:14	TO-15/E3 QA230
Dibromochloromethane	U	U	0.5		1	10/05/12 04:14	TO-15/E3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/05/12 04:14	TO-15/E3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/05/12 04:14	TO-15/E3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/05/12 04:14	TO-15/E3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/05/12 04:14	TO-15/E3 QA230
Dichlorodifluoromethane	2.6	0.5	0.5		1	10/05/12 04:14	TO-15/E3 QA230
1,1-Dichloroethane	U	U	0.5		1	10/05/12 04:14	TO-15/E3 QA230
1,2-Dichloroethane	U	U	0.5		1	10/05/12 04:14	TO-15/E3 QA230
1,1-Dichloroethene	U	U	0.5		1	10/05/12 04:14	TO-15/E3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	10/05/12 04:14	TO-15/E3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	10/05/12 04:14	TO-15/E3 QA230
1,2-Dichloropropane	U	U	0.5		1	10/05/12 04:14	TO-15/E3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/05/12 04:14	TO-15/E3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/05/12 04:14	TO-15/E3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/05/12 04:14	TO-15/E3 QA230
Ethanol	13.0	6.8	0.5	K	1	10/05/12 04:14	TO-15/E3 QA230
Ethylbenzene	U	U	0.5		1	10/05/12 04:14	TO-15/E3 QA230
Freon 113	U	U	0.5		1	10/05/12 04:14	TO-15/E3 QA230
Hexachlorobutadiene	U	U	0.5		1	10/05/12 04:14	TO-15/E3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/05/12 04:14	TO-15/E3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/05/12 04:14	TO-15/E3 QA230
Methylene Chloride	U	U	0.5		1	10/05/12 04:14	TO-15/E3 QA230
Naphthalene	U	U	0.5		1	10/05/12 04:14	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-092212-1	Lab ID: 1209016-11
Sample Matrix: Air	Date Collected: 09/22/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDW
Propylene	U	U	0.5		1	10.05/12.04.14	TO-15/R3 Q4230
Styrene	U	U	0.5		1	10.05/12.04.14	TO-15/R3 Q4230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10.05/12.04.14	TO-15/R3 Q4230
Tetrachloroethene	U	U	0.5		1	10.05/12.04.14	TO-15/R3 Q4230
Toluene	8.4	2.2	0.5		1	10.05/12.04.14	TO-15/R3 Q4230
1,2,4-Trichlorobenzene	U	U	0.5		1	10.05/12.04.14	TO-15/R3 Q4230
1,1,1-Trichloroethane	U	U	0.5		1	10.05/12.04.14	TO-15/R3 Q4230
1,1,2-Trichloroethane	U	U	0.5		1	10.05/12.04.14	TO-15/R3 Q4230
Trichloroethene	U	U	0.5		1	10.05/12.04.14	TO-15/R3 Q4230
Trichlorofluoromethane	1.2	0.2	0.5	J	1	10.05/12.04.14	TO-15/R3 Q4230
1,2,4-Trimethylbenzene	U	U	0.5		1	10.05/12.04.14	TO-15/R3 Q4230
1,3,5-Trimethylbenzene	U	U	0.5		1	10.05/12.04.14	TO-15/R3 Q4230
Vinyl chloride	U	U	0.5		1	10.05/12.04.14	TO-15/R3 Q4230
m,p-Xylene	U	U	1.0		1	10.05/12.04.14	TO-15/R3 Q4230
o-Xylene	U	U	0.5		1	10.05/12.04.14	TO-15/R3 Q4230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limits	Expanded	Analysed	Method/SCDW
<i>Surrogate: Bromofluorobenzene</i>	8.94		89%	80-120	10/04/12	10.05/12.04.14	TO-15/R3 Q4230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



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 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-092212-2	Lab ID: 1209016-12
Sample Matrix: Air	Date Collected: 09/22/2012

Volatile Organic Compounds
Targets

Analyte	Es-ult µg/m3	Es-ult ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF
Benzene	0.6	0.2	0.5	J	1	1005/1204-59	TO-15/RS QA230
Benzyl chloride	U	U	0.5	U	1	1005/1204-59	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	1005/1204-59	TO-15/RS QA230
Bromoform	U	U	0.5		1	1005/1204-59	TO-15/RS QA230
Bromomethane	U	U	0.5		1	1005/1204-59	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	1005/1204-59	TO-15/RS QA230
2-Butanone	0.8	0.3	0.5	J	1	1005/1204-59	TO-15/RS QA230
Carbon disulfide	0.5	0.2	0.5	L, J	1	1005/1204-59	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	1005/1204-59	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	1005/1204-59	TO-15/RS QA230
Chloroethane	U	U	0.5		1	1005/1204-59	TO-15/RS QA230
Chloroform	U	U	0.5		1	1005/1204-59	TO-15/RS QA230
Chloromethane	1.7	0.8	0.5		1	1005/1204-59	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	1005/1204-59	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	1005/1204-59	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	1005/1204-59	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	1005/1204-59	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	1005/1204-59	TO-15/RS QA230
Dichlorodifluoromethane	2.8	0.6	0.5		1	1005/1204-59	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	1005/1204-59	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	1005/1204-59	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	1005/1204-59	TO-15/RS QA230
cis-1,2-Dichloroethane	U	U	0.5		1	1005/1204-59	TO-15/RS QA230
trans-1,2-Dichloroethane	U	U	0.5		1	1005/1204-59	TO-15/RS QA230
1,2-Dichloropropane	U	U	0.5		1	1005/1204-59	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	1005/1204-59	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	1005/1204-59	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	1005/1204-59	TO-15/RS QA230
Ethanol	6.9	3.6	0.5	K	1	1005/1204-59	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	1005/1204-59	TO-15/RS QA230
Freon 113	U	U	0.5		1	1005/1204-59	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	1005/1204-59	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	1005/1204-59	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	1005/1204-59	TO-15/RS QA230
Methylene Chloride	U	U	0.5		1	1005/1204-59	TO-15/RS QA230
Naphthalene	U	U	0.5		1	1005/1204-59	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-092212-2	Lab ID: 1209016-12
Sample Matrix: Air	Date Collected: 09/22/2012

Volatile Organic Compounds
 Targets (Continued)

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	10/05/12 04:59	TO-15/E3 QA230
Styrene	U	U	0.5		1	10/05/12 04:59	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/05/12 04:59	TO-15/E3 QA230
Tetrachloroethane	U	U	0.5		1	10/05/12 04:59	TO-15/E3 QA230
Toluene	10.6	2.8	0.5		1	10/05/12 04:59	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/05/12 04:59	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/05/12 04:59	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/05/12 04:59	TO-15/E3 QA230
Trichloroethane	U	U	0.5		1	10/05/12 04:59	TO-15/E3 QA230
Trichlorofluoromethane	1.3	0.2	0.5	J	1	10/05/12 04:59	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/05/12 04:59	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/05/12 04:59	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	10/05/12 04:59	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	10/05/12 04:59	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	10/05/12 04:59	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Prepared	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.17		92%	80-120	10/04/12	10/05/12 04:59	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-092212-2C0	Lab ID: 1209016-13
Sample Matrix: Air	Date Collected: 09/22/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SC#
Benzene	0.6	0.2	0.5	J	1	10/05/12/05/42	TO-15/RS QA230
Benzyl chloride	U	U	0.5	U	1	10/05/12/05/42	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	10/05/12/05/42	TO-15/RS QA230
Bromoforn	U	U	0.5		1	10/05/12/05/42	TO-15/RS QA230
Bromomethane	U	U	0.5		1	10/05/12/05/42	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	10/05/12/05/42	TO-15/RS QA230
2-Butanone	0.9	0.3	0.5	J	1	10/05/12/05/42	TO-15/RS QA230
Carbon disulfide	U	U	0.5	UL	1	10/05/12/05/42	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	10/05/12/05/42	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	10/05/12/05/42	TO-15/RS QA230
Chloroethane	U	U	0.5		1	10/05/12/05/42	TO-15/RS QA230
Chloroform	U	U	0.5		1	10/05/12/05/42	TO-15/RS QA230
Chloromethane	1.7	0.8	0.5		1	10/05/12/05/42	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	10/05/12/05/42	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/05/12/05/42	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/05/12/05/42	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/05/12/05/42	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/05/12/05/42	TO-15/RS QA230
Dichlorodifluoromethane	2.7	0.6	0.5		1	10/05/12/05/42	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	10/05/12/05/42	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	10/05/12/05/42	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	10/05/12/05/42	TO-15/RS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	10/05/12/05/42	TO-15/RS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	10/05/12/05/42	TO-15/RS QA230
1,2-Dichloropropene	U	U	0.5		1	10/05/12/05/42	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/05/12/05/42	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/05/12/05/42	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/05/12/05/42	TO-15/RS QA230
Ethanol	16.8	8.8	0.5	K	1	10/05/12/05/42	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	10/05/12/05/42	TO-15/RS QA230
Freon 113	U	U	0.5		1	10/05/12/05/42	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	10/05/12/05/42	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/05/12/05/42	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/05/12/05/42	TO-15/RS QA230
Methylene Chloride	U	U	0.5		1	10/05/12/05/42	TO-15/RS QA230
Naphthalene	U	U	0.5		1	10/05/12/05/42	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5350



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-092212-2C0	Lab ID: 1209016-13
Sample Matrix: Air	Date Collected: 09/22/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifies	Dilution	Analysed	Method/CEM#
Propylene	U	U	0.5		1	10/05/12 05:42	TO-15/E3 QA230
Styrene	U	U	0.5		1	10/05/12 05:42	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/05/12 05:42	TO-15/E3 QA230
Tetrachloroethene	U	U	0.5		1	10/05/12 05:42	TO-15/E3 QA230
Toluene	3.0	0.8	0.5		1	10/05/12 05:42	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/05/12 05:42	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/05/12 05:42	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/05/12 05:42	TO-15/E3 QA230
Trichloroethene	U	U	0.5		1	10/05/12 05:42	TO-15/E3 QA230
Trichlorofluoromethane	1.3	0.2	0.5	J	1	10/05/12 05:42	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/05/12 05:42	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/05/12 05:42	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	10/05/12 05:42	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	10/05/12 05:42	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	10/05/12 05:42	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifies	%Recovery	%Recovery Limit	Expanded	Analysed	Method/CEM#
<i>Surrogate: Bromofluorobenzene</i>	8.97		90%	80-120	100% ± 12	10/05/12 05:42	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5350



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-092212-3	Lab ID: 1209016-14
Sample Matrix: Air	Date Collected: 09/22/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualities	Dilution	Analysis	Method/SCM
Benzene	0.8	0.2	0.5	J	1	10/09/12 11:48	TO-15/E3 QA230
Benzyl chloride	U	U	0.5		1	10/09/12 11:48	TO-15/E3 QA230
Bromodichloromethane	U	U	0.5		1	10/09/12 11:48	TO-15/E3 QA230
Bromoform	U	U	0.5		1	10/09/12 11:48	TO-15/E3 QA230
Bromoethane	U	U	0.5		1	10/09/12 11:48	TO-15/E3 QA230
1,3-Butadiene	U	U	0.5		1	10/09/12 11:48	TO-15/E3 QA230
2-Butanone	1.0	0.3	0.5	J	1	10/09/12 11:48	TO-15/E3 QA230
Carbon disulfide	0.5	0.2	0.5	J	1	10/09/12 11:48	TO-15/E3 QA230
Carbon Tetrachloride	U	U	0.5		1	10/09/12 11:48	TO-15/E3 QA230
Chlorobenzene	U	U	0.5		1	10/09/12 11:48	TO-15/E3 QA230
Chloroethane	U	U	0.5		1	10/09/12 11:48	TO-15/E3 QA230
Chloroform	U	U	0.5		1	10/09/12 11:48	TO-15/E3 QA230
Chloromethane	1.4	0.6	0.5		1	10/09/12 11:48	TO-15/E3 QA230
Dibromochloromethane	U	U	0.5		1	10/09/12 11:48	TO-15/E3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/09/12 11:48	TO-15/E3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/09/12 11:48	TO-15/E3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/09/12 11:48	TO-15/E3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/09/12 11:48	TO-15/E3 QA230
Dichlorodifluoromethane	2.9	0.6	0.5		1	10/09/12 11:48	TO-15/E3 QA230
1,1-Dichloroethane	U	U	0.5		1	10/09/12 11:48	TO-15/E3 QA230
1,2-Dichloroethane	U	U	0.5		1	10/09/12 11:48	TO-15/E3 QA230
1,1-Dichloroethene	U	U	0.5		1	10/09/12 11:48	TO-15/E3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	10/09/12 11:48	TO-15/E3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	10/09/12 11:48	TO-15/E3 QA230
1,2-Dichloropropane	U	U	0.5		1	10/09/12 11:48	TO-15/E3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/09/12 11:48	TO-15/E3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/09/12 11:48	TO-15/E3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/09/12 11:48	TO-15/E3 QA230
Ethanol	9.5	5.0	0.5		1	10/09/12 11:48	TO-15/E3 QA230
Ethylbenzene	U	U	0.5		1	10/09/12 11:48	TO-15/E3 QA230
Freon 113	U	U	0.5		1	10/09/12 11:48	TO-15/E3 QA230
Hexachlorobutadiene	U	U	0.5		1	10/09/12 11:48	TO-15/E3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/09/12 11:48	TO-15/E3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/09/12 11:48	TO-15/E3 QA230
Methylene Chloride	0.6	0.2	0.5	J	1	10/09/12 11:48	TO-15/E3 QA230
Naphthalene	U	U	0.5		1	10/09/12 11:48	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-092212-3	Lab ID: 1209016-14
Sample Matrix: Air	Date Collected: 09/22/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDW
Propylene	U	U	0.5		1	10/09/12 11:48	TO-15/RS QA230
Styrene	U	U	0.5		1	10/09/12 11:48	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/09/12 11:48	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	10/09/12 11:48	TO-15/RS QA230
Toluene	8.7	23	0.5		1	10/09/12 11:48	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/09/12 11:48	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/09/12 11:48	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/09/12 11:48	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	10/09/12 11:48	TO-15/RS QA230
Trichlorofluoromethane	1.8	0.3	0.5	J	1	10/09/12 11:48	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/09/12 11:48	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/09/12 11:48	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	10/09/12 11:48	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	10/09/12 11:48	TO-15/RS QA230
o-Xylene	U	U	0.5		1	10/09/12 11:48	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCDW
<i>Surrogate: Bromofluorobenzene</i>	9.09		91%	80-120	10/09/12	10/09/12 11:48	TO-15/RS QA230

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-092212	Lab ID: 1209016-15
Sample Matrix: Air	Date Collected: 09/22/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SC#
Benzene	0.5	0.2	0.5	J	1	10/09/12 12:31	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	10/09/12 12:31	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	10/09/12 12:31	TO-15/RS QA230
Bromoform	U	U	0.5		1	10/09/12 12:31	TO-15/RS QA230
Bromomethane	U	U	0.5		1	10/09/12 12:31	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	10/09/12 12:31	TO-15/RS QA230
2-Butanone	0.8	0.3	0.5	J	1	10/09/12 12:31	TO-15/RS QA230
Carbon disulfide	U	U	0.5		1	10/09/12 12:31	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	10/09/12 12:31	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	10/09/12 12:31	TO-15/RS QA230
Chloroethane	U	U	0.5		1	10/09/12 12:31	TO-15/RS QA230
Chloroform	U	U	0.5		1	10/09/12 12:31	TO-15/RS QA230
Chloromethane	1.3	0.6	0.5		1	10/09/12 12:31	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	10/09/12 12:31	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/09/12 12:31	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/09/12 12:31	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/09/12 12:31	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/09/12 12:31	TO-15/RS QA230
Dichlorodifluoromethane	2.7	0.6	0.5		1	10/09/12 12:31	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	10/09/12 12:31	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	10/09/12 12:31	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	10/09/12 12:31	TO-15/RS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	10/09/12 12:31	TO-15/RS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	10/09/12 12:31	TO-15/RS QA230
1,2-Dichloropropane	U	U	0.5		1	10/09/12 12:31	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/09/12 12:31	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/09/12 12:31	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/09/12 12:31	TO-15/RS QA230
Ethanol	8.6	4.5	0.5		1	10/09/12 12:31	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	10/09/12 12:31	TO-15/RS QA230
Freon 113	U	U	0.5		1	10/09/12 12:31	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	10/09/12 12:31	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/09/12 12:31	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/09/12 12:31	TO-15/RS QA230
Methylene Chloride	U	U	0.5		1	10/09/12 12:31	TO-15/RS QA230
Naphthalene	U	U	0.5		1	10/09/12 12:31	TO-15/RS QA230

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-092212	Lab ID: 1209016-15
Sample Matrix: Air	Date Collected: 09/22/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifies	Dilution	Analyzed	Method/SCM#
Propylene	U	U	0.5		1	10/09/12 12 31	TO-15/E3 Q4230
Styrene	U	U	0.5		1	10/09/12 12 31	TO-15/E3 Q4230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/09/12 12 31	TO-15/E3 Q4230
Tetrachloroethane	U	U	0.5		1	10/09/12 12 31	TO-15/E3 Q4230
Toluene	1.6	0.4	0.5	J	1	10/09/12 12 31	TO-15/E3 Q4230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/09/12 12 31	TO-15/E3 Q4230
1,1,1-Trichloroethane	U	U	0.5		1	10/09/12 12 31	TO-15/E3 Q4230
1,1,2-Trichloroethane	U	U	0.5		1	10/09/12 12 31	TO-15/E3 Q4230
Trichloroethane	U	U	0.5		1	10/09/12 12 31	TO-15/E3 Q4230
Trichlorofluoromethane	1.5	0.3	0.5	J	1	10/09/12 12 31	TO-15/E3 Q4230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/09/12 12 31	TO-15/E3 Q4230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/09/12 12 31	TO-15/E3 Q4230
Vinyl chloride	U	U	0.5		1	10/09/12 12 31	TO-15/E3 Q4230
m,p-Xylene	U	U	1.0		1	10/09/12 12 31	TO-15/E3 Q4230
o-Xylene	U	U	0.5		1	10/09/12 12 31	TO-15/E3 Q4230

Surrogates

Analyte	Result ppbv	Flag Qualifies	%Recovery	%Accuracy Limit	Prepared	Analyzed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.05		90%	80-120	10/09/12	10/09/12 12 31	TO-15/E3 Q4230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-092412-1	Lab ID: 1209016-16
Sample Matrix: Air	Date Collected: 09/24/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/SCDF
Benzene	0.6	0.2	0.5	J	1	10/09/12 13:14	TO-15/FS QA230
Benzyl chloride	U	U	0.5		1	10/09/12 13:14	TO-15/FS QA230
Bromodichloromethane	U	U	0.5		1	10/09/12 13:14	TO-15/FS QA230
Bromoforn	U	U	0.5		1	10/09/12 13:14	TO-15/FS QA230
Bromomethane	U	U	0.5		1	10/09/12 13:14	TO-15/FS QA230
1,3-Butadiene	U	U	0.5		1	10/09/12 13:14	TO-15/FS QA230
2-Butanone	U	U	0.5		1	10/09/12 13:14	TO-15/FS QA230
Carbon disulfide	U	U	0.5		1	10/09/12 13:14	TO-15/FS QA230
Carbon Tetrachloride	U	U	0.5		1	10/09/12 13:14	TO-15/FS QA230
Chlorobenzene	U	U	0.5		1	10/09/12 13:14	TO-15/FS QA230
Chloroethane	U	U	0.5		1	10/09/12 13:14	TO-15/FS QA230
Chloroform	U	U	0.5		1	10/09/12 13:14	TO-15/FS QA230
Chloromethane	1.2	0.6	0.5		1	10/09/12 13:14	TO-15/FS QA230
Dibromochloromethane	U	U	0.5		1	10/09/12 13:14	TO-15/FS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/09/12 13:14	TO-15/FS QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/09/12 13:14	TO-15/FS QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/09/12 13:14	TO-15/FS QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/09/12 13:14	TO-15/FS QA230
Dichlorodifluoromethane	2.7	0.5	0.5		1	10/09/12 13:14	TO-15/FS QA230
1,1-Dichloroethane	U	U	0.5		1	10/09/12 13:14	TO-15/FS QA230
1,2-Dichloroethane	U	U	0.5		1	10/09/12 13:14	TO-15/FS QA230
1,1-Dichloroethene	U	U	0.5		1	10/09/12 13:14	TO-15/FS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	10/09/12 13:14	TO-15/FS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	10/09/12 13:14	TO-15/FS QA230
1,2-Dichloropropane	U	U	0.5		1	10/09/12 13:14	TO-15/FS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/09/12 13:14	TO-15/FS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/09/12 13:14	TO-15/FS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/09/12 13:14	TO-15/FS QA230
Ethanol	3.9	2.0	0.5		1	10/09/12 13:14	TO-15/FS QA230
Ethylbenzene	U	U	0.5		1	10/09/12 13:14	TO-15/FS QA230
Freon 113	U	U	0.5		1	10/09/12 13:14	TO-15/FS QA230
Hexachlorobutadiene	U	U	0.5		1	10/09/12 13:14	TO-15/FS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/09/12 13:14	TO-15/FS QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/09/12 13:14	TO-15/FS QA230
Methylene Chloride	U	U	0.5		1	10/09/12 13:14	TO-15/FS QA230
Naphthalene	U	U	0.5		1	10/09/12 13:14	TO-15/FS QA230
Propylene	U	U	0.5		1	10/09/12 13:14	TO-15/FS QA230

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-092412-1	Lab ID: 1209016-16
Sample Matrix: Air	Date Collected: 09/24/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Styrene	U	U	0.5		1	10/09/12 13:14	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/09/12 13:14	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	10/09/12 13:14	TO-15/RS QA230
Toluene	2.0	0.5	0.5		1	10/09/12 13:14	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/09/12 13:14	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/09/12 13:14	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/09/12 13:14	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	10/09/12 13:14	TO-15/RS QA230
Trichlorofluoromethane	1.5	0.3	0.5	J	1	10/09/12 13:14	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/09/12 13:14	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/09/12 13:14	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	10/09/12 13:14	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	10/09/12 13:14	TO-15/RS QA230
o-Xylene	U	U	0.5		1	10/09/12 13:14	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.06		91%	80-120	10/09/12	10/09/12 13:14	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-092412-2	Lab ID: 1209016-17
Sample Matrix: Air	Date Collected: 09/24/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SC#
Benzene	U	U	0.5		1	10/09/12 13:56	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	10/09/12 13:56	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	10/09/12 13:56	TO-15/RS QA230
Bromofom	U	U	0.5		1	10/09/12 13:56	TO-15/RS QA230
Bromomethane	U	U	0.5		1	10/09/12 13:56	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	10/09/12 13:56	TO-15/RS QA230
2-Butanone	0.5	0.2	0.5	J	1	10/09/12 13:56	TO-15/RS QA230
Carbon disulfide	U	U	0.5		1	10/09/12 13:56	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	10/09/12 13:56	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	10/09/12 13:56	TO-15/RS QA230
Chloroethane	U	U	0.5		1	10/09/12 13:56	TO-15/RS QA230
Chloroform	U	U	0.5		1	10/09/12 13:56	TO-15/RS QA230
Chloromethane	1.2	0.6	0.5		1	10/09/12 13:56	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	10/09/12 13:56	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/09/12 13:56	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/09/12 13:56	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/09/12 13:56	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/09/12 13:56	TO-15/RS QA230
Dichlorodifluoromethane	2.8	0.6	0.5		1	10/09/12 13:56	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	10/09/12 13:56	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	10/09/12 13:56	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	10/09/12 13:56	TO-15/RS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	10/09/12 13:56	TO-15/RS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	10/09/12 13:56	TO-15/RS QA230
1,2-Dichloropropene	U	U	0.5		1	10/09/12 13:56	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/09/12 13:56	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/09/12 13:56	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/09/12 13:56	TO-15/RS QA230
Ethanol	3.6	1.9	0.5		1	10/09/12 13:56	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	10/09/12 13:56	TO-15/RS QA230
Freon 113	U	U	0.5		1	10/09/12 13:56	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	10/09/12 13:56	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/09/12 13:56	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/09/12 13:56	TO-15/RS QA230
Methylene Chloride	U	U	0.5		1	10/09/12 13:56	TO-15/RS QA230
Naphthalene	U	U	0.5		1	10/09/12 13:56	TO-15/RS QA230
Propylene	U	U	0.5		1	10/09/12 13:56	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5390



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-092412-2	Lab ID: 1209016-17
Sample Matrix: Air	Date Collected: 09/24/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCID#
Styrene	U	U	0.5		1	10/09/12 13:56	TO-15/R3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/09/12 13:56	TO-15/R3 QA230
Tetrachloroethene	U	U	0.5		1	10/09/12 13:56	TO-15/R3 QA230
Toluene	2.1	0.6	0.5		1	10/09/12 13:56	TO-15/R3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/09/12 13:56	TO-15/R3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/09/12 13:56	TO-15/R3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/09/12 13:56	TO-15/R3 QA230
Trichloroethene	U	U	0.5		1	10/09/12 13:56	TO-15/R3 QA230
Trichlorofluoromethane	1.5	0.3	0.5	J	1	10/09/12 13:56	TO-15/R3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/09/12 13:56	TO-15/R3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/09/12 13:56	TO-15/R3 QA230
Vinyl chloride	U	U	0.5		1	10/09/12 13:56	TO-15/R3 QA230
m,p-Xylene	1.6	0.4	1.0	J	1	10/09/12 13:56	TO-15/R3 QA230
o-Xylene	U	U	0.5		1	10/09/12 13:56	TO-15/R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery %Recovery	Limit	Expanded	Analysed	Method/SCID#
<i>Surrogate: Bromofluorobenzene</i>	9.28		93%	80-120	10/09/12	10/09/12 13:56	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-092412-2C0	Lab ID: 1209016-18
Sample Matrix: Air	Date Collected: 09/24/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Benzene	0.5	0.2	0.5	J	1	10/09/12 14:39	TO-15/E3 QA230
Benzyl chloride	U	U	0.5		1	10/09/12 14:39	TO-15/E3 QA230
Bromodichloromethane	U	U	0.5		1	10/09/12 14:39	TO-15/E3 QA230
Bromoform	U	U	0.5		1	10/09/12 14:39	TO-15/E3 QA230
Bromoethane	U	U	0.5		1	10/09/12 14:39	TO-15/E3 QA230
1,3-Butadiene	U	U	0.5		1	10/09/12 14:39	TO-15/E3 QA230
2-Butanone	U	U	0.5		1	10/09/12 14:39	TO-15/E3 QA230
Carbon disulfide	U	U	0.5		1	10/09/12 14:39	TO-15/E3 QA230
Carbon Tetrachloride	U	U	0.5		1	10/09/12 14:39	TO-15/E3 QA230
Chlorobenzene	U	U	0.5		1	10/09/12 14:39	TO-15/E3 QA230
Chloroethane	U	U	0.5		1	10/09/12 14:39	TO-15/E3 QA230
Chloroform	U	U	0.5		1	10/09/12 14:39	TO-15/E3 QA230
Chloromethane	1.1	0.5	0.5		1	10/09/12 14:39	TO-15/E3 QA230
Dibromochloromethane	U	U	0.5		1	10/09/12 14:39	TO-15/E3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/09/12 14:39	TO-15/E3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/09/12 14:39	TO-15/E3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/09/12 14:39	TO-15/E3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/09/12 14:39	TO-15/E3 QA230
Dichlorodifluoromethane	2.7	0.5	0.5		1	10/09/12 14:39	TO-15/E3 QA230
1,1-Dichloroethane	U	U	0.5		1	10/09/12 14:39	TO-15/E3 QA230
1,2-Dichloroethane	U	U	0.5		1	10/09/12 14:39	TO-15/E3 QA230
1,1-Dichloroethene	U	U	0.5		1	10/09/12 14:39	TO-15/E3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	10/09/12 14:39	TO-15/E3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	10/09/12 14:39	TO-15/E3 QA230
1,2-Dichloropropene	U	U	0.5		1	10/09/12 14:39	TO-15/E3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/09/12 14:39	TO-15/E3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/09/12 14:39	TO-15/E3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/09/12 14:39	TO-15/E3 QA230
Ethanol	4.4	23	0.5		1	10/09/12 14:39	TO-15/E3 QA230
Ethylbenzene	U	U	0.5		1	10/09/12 14:39	TO-15/E3 QA230
Freon 113	U	U	0.5		1	10/09/12 14:39	TO-15/E3 QA230
Hexachlorobutadiene	U	U	0.5		1	10/09/12 14:39	TO-15/E3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/09/12 14:39	TO-15/E3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/09/12 14:39	TO-15/E3 QA230
Methylene Chloride	U	U	0.5		1	10/09/12 14:39	TO-15/E3 QA230
Naphthalene	U	U	0.5		1	10/09/12 14:39	TO-15/E3 QA230
Propylene	U	U	0.5		1	10/09/12 14:39	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-092412-2C0	Lab ID: 1209016-18
Sample Matrix: Air	Date Collected: 09/24/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifies	Dilution	Analysed	Method/DO#
Styrene	U	U	0.5		1	10/09/12 14:39	TO-15/E3 Q4230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/09/12 14:39	TO-15/E3 Q4230
Tetrachloroethene	U	U	0.5		1	10/09/12 14:39	TO-15/E3 Q4230
Toluene	1.3	0.4	0.5	J	1	10/09/12 14:39	TO-15/E3 Q4230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/09/12 14:39	TO-15/E3 Q4230
1,1,1-Trichloroethane	U	U	0.5		1	10/09/12 14:39	TO-15/E3 Q4230
1,1,2-Trichloroethane	U	U	0.5		1	10/09/12 14:39	TO-15/E3 Q4230
Trichloroethene	U	U	0.5		1	10/09/12 14:39	TO-15/E3 Q4230
Trichlorofluoromethane	1.5	0.3	0.5	J	1	10/09/12 14:39	TO-15/E3 Q4230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/09/12 14:39	TO-15/E3 Q4230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/09/12 14:39	TO-15/E3 Q4230
Vinyl chloride	U	U	0.5		1	10/09/12 14:39	TO-15/E3 Q4230
m,p-Xylene	2.5	0.6	1.0	J	1	10/09/12 14:39	TO-15/E3 Q4230
o-Xylene	0.8	0.2	0.5	J	1	10/09/12 14:39	TO-15/E3 Q4230

Surrogates

Analyte	Result ppbv	Flag Qualifies	%Recovery	%Recovery Limit	Expanded	Analysed	Method/DO#
<i>Surrogate: Bromofluorobenzene</i>	9.34		93%	80-120	10/09/12	10/09/12 14:39	TO-15/E3 Q4230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-092412-3	Lab ID: 1209016-19
Sample Matrix: Air	Date Collected: 09/24/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualities	Dilution	Analysis	Method/SDM#
Benzene	0.5	0.2	0.5	J	1	10/09/12 15:22	TO-15/F3 QA230
Benzyl chloride	U	U	0.5		1	10/09/12 15:22	TO-15/F3 QA230
Bromodichloromethane	U	U	0.5		1	10/09/12 15:22	TO-15/F3 QA230
Bromoform	U	U	0.5		1	10/09/12 15:22	TO-15/F3 QA230
Bromoethane	U	U	0.5		1	10/09/12 15:22	TO-15/F3 QA230
1,3-Butadiene	U	U	0.5		1	10/09/12 15:22	TO-15/F3 QA230
2-Butanone	U	U	0.5		1	10/09/12 15:22	TO-15/F3 QA230
Carbon disulfide	U	U	0.5		1	10/09/12 15:22	TO-15/F3 QA230
Carbon Tetrachloride	U	U	0.5		1	10/09/12 15:22	TO-15/F3 QA230
Chlorobenzene	U	U	0.5		1	10/09/12 15:22	TO-15/F3 QA230
Chloroethane	U	U	0.5		1	10/09/12 15:22	TO-15/F3 QA230
Chloroform	U	U	0.5		1	10/09/12 15:22	TO-15/F3 QA230
Chloromethane	1.3	0.6	0.5		1	10/09/12 15:22	TO-15/F3 QA230
Dibromochloromethane	U	U	0.5		1	10/09/12 15:22	TO-15/F3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/09/12 15:22	TO-15/F3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/09/12 15:22	TO-15/F3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/09/12 15:22	TO-15/F3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/09/12 15:22	TO-15/F3 QA230
Dichlorodifluoromethane	2.8	0.6	0.5		1	10/09/12 15:22	TO-15/F3 QA230
1,1-Dichloroethane	U	U	0.5		1	10/09/12 15:22	TO-15/F3 QA230
1,2-Dichloroethane	U	U	0.5		1	10/09/12 15:22	TO-15/F3 QA230
1,1-Dichloroethene	U	U	0.5		1	10/09/12 15:22	TO-15/F3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	10/09/12 15:22	TO-15/F3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	10/09/12 15:22	TO-15/F3 QA230
1,2-Dichloropropene	U	U	0.5		1	10/09/12 15:22	TO-15/F3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/09/12 15:22	TO-15/F3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/09/12 15:22	TO-15/F3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/09/12 15:22	TO-15/F3 QA230
Ethanol	3.5	19	0.5		1	10/09/12 15:22	TO-15/F3 QA230
Ethylbenzene	U	U	0.5		1	10/09/12 15:22	TO-15/F3 QA230
Freon 113	U	U	0.5		1	10/09/12 15:22	TO-15/F3 QA230
Hexachlorobutadiene	U	U	0.5		1	10/09/12 15:22	TO-15/F3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/09/12 15:22	TO-15/F3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/09/12 15:22	TO-15/F3 QA230
Methylene Chloride	0.5	0.2	0.5	J	1	10/09/12 15:22	TO-15/F3 QA230
Naphthalene	U	U	0.5		1	10/09/12 15:22	TO-15/F3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-092412-3	Lab ID: 1209016-19
Sample Matrix: Air	Date Collected: 09/24/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM
Propylene	U	U	0.5		1	10/09/12 15:22	TO-15/E3 QA230
Styrene	U	U	0.5		1	10/09/12 15:22	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/09/12 15:22	TO-15/E3 QA230
Tetrachloroethane	U	U	0.5		1	10/09/12 15:22	TO-15/E3 QA230
Toluene	1.3	0.4	0.5	J	1	10/09/12 15:22	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/09/12 15:22	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/09/12 15:22	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/09/12 15:22	TO-15/E3 QA230
Trichloroethane	U	U	0.5		1	10/09/12 15:22	TO-15/E3 QA230
Trichlorofluoromethane	1.6	0.3	0.5	J	1	10/09/12 15:22	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/09/12 15:22	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/09/12 15:22	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	10/09/12 15:22	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	10/09/12 15:22	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	10/09/12 15:22	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Prepared	Analysed	Method/SCM
<i>Surrogate: Bromofluorobenzene</i>	9.18		92%	80-120	10/09/12	10/09/12 15:22	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-092412	Lab ID: 1209016-20
Sample Matrix: Air	Date Collected: 09/24/2012

Volatile Organic Compounds
 Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF
Benzene	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
Benzyl chloride	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
Bromodichloromethane	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
Bromoforn	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
Bromomethane	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
1,3-Butadiene	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
2-Butanone	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
Carbon disulfide	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
Carbon Tetrachloride	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
Chlorobenzene	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
Chloroethane	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
Chloroform	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
Chloromethane	1.1	0.6	0.5		1	10/09/12 16:05	TO-15/R3 QA230
Dibromochloromethane	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
Dichlorodifluoromethane	2.8	0.6	0.5		1	10/09/12 16:05	TO-15/R3 QA230
1,1-Dichloroethane	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
1,2-Dichloroethane	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
1,1-Dichloroethene	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
1,2-Dichloropropane	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
Ethanol	2.8	1.5	0.5		1	10/09/12 16:05	TO-15/R3 QA230
Ethylbenzene	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
Brom 113	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
Hexachlorobutadiene	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
Methylene Chloride	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
Naphthalene	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
Propylene	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-092412	Lab ID: 1209016-20
Sample Matrix: Air	Date Collected: 09/24/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF
Styrene	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
Tetrachloroethene	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
Toluene	2.7	0.7	0.5		1	10/09/12 16:05	TO-15/R3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
Trichloroethene	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
Trichlorofluoromethane	1.5	0.3	0.5	T	1	10/09/12 16:05	TO-15/R3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
Vinyl chloride	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230
m,p-Xylene	U	U	1.0		1	10/09/12 16:05	TO-15/R3 QA230
o-Xylene	U	U	0.5		1	10/09/12 16:05	TO-15/R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limits	Prepared	Analysed	Method/SCDF
<i>Surrogate: Bromofluorobenzene</i>	9.15		92%	80-120	10/09/12	10/09/12 16:05	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-092712-1	Lab ID: 1210002-01
Sample Matrix: Air	Date Collected: 09/27/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/DO#
Benzene	0.7	0.2	0.5	J	1	10/12/12 16:01	TO-15/R3 QA230
Benzyl chloride	U	U	0.5		1	10/12/12 16:01	TO-15/R3 QA230
Bromodichloromethane	U	U	0.5		1	10/12/12 16:01	TO-15/R3 QA230
Bromoforn	U	U	0.5		1	10/12/12 16:01	TO-15/R3 QA230
Bromomethane	U	U	0.5		1	10/12/12 16:01	TO-15/R3 QA230
1,3-Butadiene	U	U	0.5		1	10/12/12 16:01	TO-15/R3 QA230
2-Butanone	0.7	0.2	0.5	J	1	10/12/12 16:01	TO-15/R3 QA230
Carbon disulfide	U	U	0.5	UL	1	10/12/12 16:01	TO-15/R3 QA230
Carbon Tetrachloride	U	U	0.5		1	10/12/12 16:01	TO-15/R3 QA230
Chlorobenzene	U	U	0.5		1	10/12/12 16:01	TO-15/R3 QA230
Chloroethane	U	U	0.5		1	10/12/12 16:01	TO-15/R3 QA230
Chloroform	U	U	0.5		1	10/12/12 16:01	TO-15/R3 QA230
Chloromethane	1.0	0.5	0.5		1	10/12/12 16:01	TO-15/R3 QA230
Dibromochloromethane	U	U	0.5		1	10/12/12 16:01	TO-15/R3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/12/12 16:01	TO-15/R3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/12/12 16:01	TO-15/R3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/12/12 16:01	TO-15/R3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/12/12 16:01	TO-15/R3 QA230
Dichlorodifluoromethane	3.1	0.6	0.5		1	10/12/12 16:01	TO-15/R3 QA230
1,1-Dichloroethane	U	U	0.5		1	10/12/12 16:01	TO-15/R3 QA230
1,2-Dichloroethane	U	U	0.5		1	10/12/12 16:01	TO-15/R3 QA230
1,1-Dichloroethene	U	U	0.5		1	10/12/12 16:01	TO-15/R3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	10/12/12 16:01	TO-15/R3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	10/12/12 16:01	TO-15/R3 QA230
1,2-Dichloropropene	U	U	0.5		1	10/12/12 16:01	TO-15/R3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/12/12 16:01	TO-15/R3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/12/12 16:01	TO-15/R3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/12/12 16:01	TO-15/R3 QA230
Ethanol	6.6	3.5	0.5	L	1	10/12/12 16:01	TO-15/R3 QA230
Ethylbenzene	U	U	0.5		1	10/12/12 16:01	TO-15/R3 QA230
Freon 113	U	U	0.5		1	10/12/12 16:01	TO-15/R3 QA230
Hexachlorobutadiene	U	U	0.5		1	10/12/12 16:01	TO-15/R3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/12/12 16:01	TO-15/R3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/12/12 16:01	TO-15/R3 QA230
Methylene Chloride	U	U	0.5		1	10/12/12 16:01	TO-15/R3 QA230
Naphthalene	U	U	0.5		1	10/12/12 16:01	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5350



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-092712-1	Lab ID: 1210002-01
Sample Matrix: Air	Date Collected: 09/27/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF
Propylene	U	U	0.5		1	10/12/12 16:01	TO-15/E3 QA230
Styrene	U	U	0.5		1	10/12/12 16:01	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/12/12 16:01	TO-15/E3 QA230
Tetrachloroethane	U	U	0.5		1	10/12/12 16:01	TO-15/E3 QA230
Toluene	5.3	1.4	0.5		1	10/12/12 16:01	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/12/12 16:01	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/12/12 16:01	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/12/12 16:01	TO-15/E3 QA230
Trichloroethane	U	U	0.5		1	10/12/12 16:01	TO-15/E3 QA230
Trichlorofluoromethane	1.6	0.3	0.5	J	1	10/12/12 16:01	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/12/12 16:01	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/12/12 16:01	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	10/12/12 16:01	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	10/12/12 16:01	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	10/12/12 16:01	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Prepared	Analysed	Method/SCDF
<i>Surrogate: Bromofluorobenzene</i>	9.19		92%	80-120	10/04/12	10/12/12 16:01	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-092712-2	Lab ID: 1210002-02
Sample Matrix: Air	Date Collected: 09/27/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SC#
Benzene	0.8	0.2	0.5	J	1	10/12/12 16:46	TO-15/E3 QA230
Benzyl chloride	U	U	0.5		1	10/12/12 16:46	TO-15/E3 QA230
Bromodichloromethane	U	U	0.5		1	10/12/12 16:46	TO-15/E3 QA230
Bromofom	U	U	0.5		1	10/12/12 16:46	TO-15/E3 QA230
Bromomethane	U	U	0.5		1	10/12/12 16:46	TO-15/E3 QA230
1,3-Butadiene	U	U	0.5		1	10/12/12 16:46	TO-15/E3 QA230
2-Butanone	1.0	0.3	0.5	J	1	10/12/12 16:46	TO-15/E3 QA230
Carbon disulfide	U	U	0.5	UL	1	10/12/12 16:46	TO-15/E3 QA230
Carbon Tetrachloride	U	U	0.5		1	10/12/12 16:46	TO-15/E3 QA230
Chlorobenzene	U	U	0.5		1	10/12/12 16:46	TO-15/E3 QA230
Chloroethane	U	U	0.5		1	10/12/12 16:46	TO-15/E3 QA230
Chlorofom	U	U	0.5		1	10/12/12 16:46	TO-15/E3 QA230
Chloromethane	1.2	0.6	0.5		1	10/12/12 16:46	TO-15/E3 QA230
Dibromochloromethane	U	U	0.5		1	10/12/12 16:46	TO-15/E3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/12/12 16:46	TO-15/E3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/12/12 16:46	TO-15/E3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/12/12 16:46	TO-15/E3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/12/12 16:46	TO-15/E3 QA230
Dichlorodifluoromethane	3.5	0.7	0.5		1	10/12/12 16:46	TO-15/E3 QA230
1,1-Dichloroethane	U	U	0.5		1	10/12/12 16:46	TO-15/E3 QA230
1,2-Dichloroethane	U	U	0.5		1	10/12/12 16:46	TO-15/E3 QA230
1,1-Dichloroethene	U	U	0.5		1	10/12/12 16:46	TO-15/E3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	10/12/12 16:46	TO-15/E3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	10/12/12 16:46	TO-15/E3 QA230
1,2-Dichloropropane	U	U	0.5		1	10/12/12 16:46	TO-15/E3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/12/12 16:46	TO-15/E3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/12/12 16:46	TO-15/E3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/12/12 16:46	TO-15/E3 QA230
Ethanol	7.9	4.2	0.5	L	1	10/12/12 16:46	TO-15/E3 QA230
Ethylbenzene	U	U	0.5		1	10/12/12 16:46	TO-15/E3 QA230
Heon 113	U	U	0.5		1	10/12/12 16:46	TO-15/E3 QA230
Hexachlorobutadiene	U	U	0.5		1	10/12/12 16:46	TO-15/E3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/12/12 16:46	TO-15/E3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/12/12 16:46	TO-15/E3 QA230
Methylene Chloride	U	U	0.5		1	10/12/12 16:46	TO-15/E3 QA230
Naphthalene	U	U	0.5		1	10/12/12 16:46	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-092712-2	Lab ID: 1210002-02
Sample Matrix: Air	Date Collected: 09/27/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDW
Propylene	U	U	0.5		1	10/12/12 16:46	TO-15/E3 Q4230
Styrene	U	U	0.5		1	10/12/12 16:46	TO-15/E3 Q4230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/12/12 16:46	TO-15/E3 Q4230
Tetrachloroethene	U	U	0.5		1	10/12/12 16:46	TO-15/E3 Q4230
Toluene	8.8	2.3	0.5		1	10/12/12 16:46	TO-15/E3 Q4230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/12/12 16:46	TO-15/E3 Q4230
1,1,1-Trichloroethene	U	U	0.5		1	10/12/12 16:46	TO-15/E3 Q4230
1,1,2-Trichloroethane	U	U	0.5		1	10/12/12 16:46	TO-15/E3 Q4230
Trichloroethene	U	U	0.5		1	10/12/12 16:46	TO-15/E3 Q4230
Trichlorofluoromethane	1.9	0.3	0.5	J	1	10/12/12 16:46	TO-15/E3 Q4230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/12/12 16:46	TO-15/E3 Q4230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/12/12 16:46	TO-15/E3 Q4230
Vinyl chloride	U	U	0.5		1	10/12/12 16:46	TO-15/E3 Q4230
m,p-Xylene	U	U	1.0		1	10/12/12 16:46	TO-15/E3 Q4230
o-Xylene	U	U	0.5		1	10/12/12 16:46	TO-15/E3 Q4230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limits	Expanded	Analysed	Method/SCDW
<i>Surrogate: Bromofluorobenzene</i>	9.44		94%	80-120	10/04/12	10/12/12 16:46	TO-15/E3 Q4230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-092712-2C0	Lab ID: 1210002-03
Sample Matrix: Air	Date Collected: 09/27/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifiers	Dilution	Analysed	Method/SCDF
Benzene	0.6	0.2	0.5	J	1	10/12/12 17:30	TO-15/R3 QA230
Benzyl chloride	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
Bromodichloromethane	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
Bromoform	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
Bromoethane	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
1,3-Butadiene	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
2-Butanone	0.7	0.2	0.5	J	1	10/12/12 17:30	TO-15/R3 QA230
Carbon disulfide	U	U	0.5	UL	1	10/12/12 17:30	TO-15/R3 QA230
Carbon Tetrachloride	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
Chlorobenzene	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
Chloroethane	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
Chloroform	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
Chloromethane	1.2	0.6	0.5		1	10/12/12 17:30	TO-15/R3 QA230
Dibromochloromethane	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
Dichlorodifluoromethane	3.4	0.7	0.5		1	10/12/12 17:30	TO-15/R3 QA230
1,1-Dichloroethane	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
1,2-Dichloroethane	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
1,1-Dichloroethene	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
1,2-Dichloropropane	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
Ethanol	6.4	3.4	0.5	L	1	10/12/12 17:30	TO-15/R3 QA230
Ethylbenzene	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
Freon 113	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
Hexachlorobutadiene	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
Methylene Chloride	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
Naphthalene	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5350



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-092712-2C0	Lab ID: 1210002-03
Sample Matrix: Air	Date Collected: 09/27/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifiers	Dilution	Analyzed	Method/SCDF
Propylene	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
Styrene	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
Tetrachloroethane	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
Toluene	1.5	0.4	0.5	J	1	10/12/12 17:30	TO-15/R3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
Trichloroethane	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
Trichlorofluoromethane	1.8	0.3	0.5	J	1	10/12/12 17:30	TO-15/R3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
Vinyl chloride	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230
m,p-Xylene	U	U	1.0		1	10/12/12 17:30	TO-15/R3 QA230
o-Xylene	U	U	0.5		1	10/12/12 17:30	TO-15/R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifiers	%Recovery	%Recovery Limit	Prepared	Analyzed	Method/SCDF
<i>Surrogate: Bromofluorobenzene</i>	9.37		94%	80-120	10/04/12	10/12/12 17:30	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-092712-3	Lab ID: 1210002-04
Sample Matrix: Air	Date Collected: 09/27/2012

**Volatile Organic Compounds
Targets**

Analyte	Es:ulr µg/m ³	Es:ulr ppbv	Quantitation Limit ppbv	Flag Qualifies	Dilution	Analysed	Method/DO#
Benzene	0.6	0.2	0.5	J	1	10/12/12 18:14	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	10/12/12 18:14	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	10/12/12 18:14	TO-15/RS QA230
Bromoforn	U	U	0.5		1	10/12/12 18:14	TO-15/RS QA230
Bromomethane	U	U	0.5		1	10/12/12 18:14	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	10/12/12 18:14	TO-15/RS QA230
2-Butanone	0.7	0.2	0.5	J	1	10/12/12 18:14	TO-15/RS QA230
Carbon disulfide	U	U	0.5	UL	1	10/12/12 18:14	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	10/12/12 18:14	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	10/12/12 18:14	TO-15/RS QA230
Chloroethane	U	U	0.5		1	10/12/12 18:14	TO-15/RS QA230
Chloroform	U	U	0.5		1	10/12/12 18:14	TO-15/RS QA230
Chloromethane	1.2	0.6	0.5		1	10/12/12 18:14	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	10/12/12 18:14	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/12/12 18:14	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/12/12 18:14	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/12/12 18:14	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/12/12 18:14	TO-15/RS QA230
Dichlorodifluoromethane	3.5	0.7	0.5		1	10/12/12 18:14	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	10/12/12 18:14	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	10/12/12 18:14	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	10/12/12 18:14	TO-15/RS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	10/12/12 18:14	TO-15/RS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	10/12/12 18:14	TO-15/RS QA230
1,2-Dichloropropane	U	U	0.5		1	10/12/12 18:14	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/12/12 18:14	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/12/12 18:14	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/12/12 18:14	TO-15/RS QA230
Ethanol	6.0	3.2	0.5	L	1	10/12/12 18:14	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	10/12/12 18:14	TO-15/RS QA230
Freon 113	U	U	0.5		1	10/12/12 18:14	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	10/12/12 18:14	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/12/12 18:14	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/12/12 18:14	TO-15/RS QA230
Methylene Chloride	U	U	0.5		1	10/12/12 18:14	TO-15/RS QA230
Naphthalene	U	U	0.5		1	10/12/12 18:14	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-092712-3	Lab ID: 1210002-04
Sample Matrix: Air	Date Collected: 09/27/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/REF
Propylene	U	U	0.5		1	10/12/12 18:14	TO-15/E3 QA230
Styrene	U	U	0.5		1	10/12/12 18:14	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/12/12 18:14	TO-15/E3 QA230
Tetrachloroethene	U	U	0.5		1	10/12/12 18:14	TO-15/E3 QA230
Toluene	41	1.1	0.5		1	10/12/12 18:14	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/12/12 18:14	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/12/12 18:14	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/12/12 18:14	TO-15/E3 QA230
Trichloroethene	U	U	0.5		1	10/12/12 18:14	TO-15/E3 QA230
Trichlorofluoromethane	1.8	0.3	0.5	J	1	10/12/12 18:14	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/12/12 18:14	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/12/12 18:14	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	10/12/12 18:14	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	10/12/12 18:14	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	10/12/12 18:14	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Prepared	Analysed	Method/REF
<i>Surrogate: Bromofluorobenzene</i>	9.32		93%	80-120	10/04/12	10/12/12 18:14	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-093012-1	Lab ID: 1210002-05
Sample Matrix: Air	Date Collected: 09/30/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/REF
Benzene	0.5	0.2	0.5	J	1	10/12/12 18:58	TO-15/R3 QA230
Benzyl chloride	U	U	0.5		1	10/12/12 18:58	TO-15/R3 QA230
Bromodichloromethane	U	U	0.5		1	10/12/12 18:58	TO-15/R3 QA230
Bromoforn	U	U	0.5		1	10/12/12 18:58	TO-15/R3 QA230
Bromomethane	U	U	0.5		1	10/12/12 18:58	TO-15/R3 QA230
1,3-Butadiene	U	U	0.5		1	10/12/12 18:58	TO-15/R3 QA230
2-Butanone	U	U	0.5		1	10/12/12 18:58	TO-15/R3 QA230
Carbon disulfide	U	U	0.5	UL	1	10/12/12 18:58	TO-15/R3 QA230
Carbon Tetrachloride	U	U	0.5		1	10/12/12 18:58	TO-15/R3 QA230
Chlorobenzene	U	U	0.5		1	10/12/12 18:58	TO-15/R3 QA230
Chloroethane	U	U	0.5		1	10/12/12 18:58	TO-15/R3 QA230
Chloroform	U	U	0.5		1	10/12/12 18:58	TO-15/R3 QA230
Chloromethane	1.1	0.5	0.5		1	10/12/12 18:58	TO-15/R3 QA230
Dibromochloromethane	U	U	0.5		1	10/12/12 18:58	TO-15/R3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/12/12 18:58	TO-15/R3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/12/12 18:58	TO-15/R3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/12/12 18:58	TO-15/R3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/12/12 18:58	TO-15/R3 QA230
Dichlorodifluoromethane	3.4	0.7	0.5		1	10/12/12 18:58	TO-15/R3 QA230
1,1-Dichloroethane	U	U	0.5		1	10/12/12 18:58	TO-15/R3 QA230
1,2-Dichloroethane	U	U	0.5		1	10/12/12 18:58	TO-15/R3 QA230
1,1-Dichloroethene	U	U	0.5		1	10/12/12 18:58	TO-15/R3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	10/12/12 18:58	TO-15/R3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	10/12/12 18:58	TO-15/R3 QA230
1,2-Dichloropropane	U	U	0.5		1	10/12/12 18:58	TO-15/R3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/12/12 18:58	TO-15/R3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/12/12 18:58	TO-15/R3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/12/12 18:58	TO-15/R3 QA230
Ethanol	3.1	1.6	0.5	L	1	10/12/12 18:58	TO-15/R3 QA230
Ethylbenzene	U	U	0.5		1	10/12/12 18:58	TO-15/R3 QA230
Freon 113	U	U	0.5		1	10/12/12 18:58	TO-15/R3 QA230
Hexachlorobutadiene	U	U	0.5		1	10/12/12 18:58	TO-15/R3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/12/12 18:58	TO-15/R3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/12/12 18:58	TO-15/R3 QA230
Methylene Chloride	1.1	0.3	0.5	J	1	10/12/12 18:58	TO-15/R3 QA230
Naphthalene	U	U	0.5		1	10/12/12 18:58	TO-15/R3 QA230

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 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-093012-1	Lab ID: 1210002-05
Sample Matrix: Air	Date Collected: 09/30/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	10/12/12 18:58	TO-15/ES QA230
Styrene	U	U	0.5		1	10/12/12 18:58	TO-15/ES QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/12/12 18:58	TO-15/ES QA230
Tetrachloroethene	U	U	0.5		1	10/12/12 18:58	TO-15/ES QA230
Toluene	2.2	0.6	0.5		1	10/12/12 18:58	TO-15/ES QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/12/12 18:58	TO-15/ES QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/12/12 18:58	TO-15/ES QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/12/12 18:58	TO-15/ES QA230
Trichloroethene	U	U	0.5		1	10/12/12 18:58	TO-15/ES QA230
Trichlorofluoromethane	1.8	0.3	0.5	J	1	10/12/12 18:58	TO-15/ES QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/12/12 18:58	TO-15/ES QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/12/12 18:58	TO-15/ES QA230
Vinyl chloride	U	U	0.5		1	10/12/12 18:58	TO-15/ES QA230
m,p-Xylene	U	U	1.0		1	10/12/12 18:58	TO-15/ES QA230
o-Xylene	U	U	0.5		1	10/12/12 18:58	TO-15/ES QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.19		92%	80-120	100%±12	10/12/12 18:58	TO-15/ES QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



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 701 Mapes Road
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Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-093012-2	Lab ID: 1210002-06
Sample Matrix: Air	Date Collected: 09/30/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/DOE#
Benzene	U	U	0.5		1	10/12/12 19:41	TO-15/R3 Q4230
Benzyl chloride	U	U	0.5		1	10/12/12 19:41	TO-15/R3 Q4230
Bromodichloromethane	U	U	0.5		1	10/12/12 19:41	TO-15/R3 Q4230
Bromoform	U	U	0.5		1	10/12/12 19:41	TO-15/R3 Q4230
Bromoethane	U	U	0.5		1	10/12/12 19:41	TO-15/R3 Q4230
1,3-Butadiene	U	U	0.5		1	10/12/12 19:41	TO-15/R3 Q4230
2-Butanone	U	U	0.5		1	10/12/12 19:41	TO-15/R3 Q4230
Carbon disulfide	U	U	0.5	UL	1	10/12/12 19:41	TO-15/R3 Q4230
Carbon Tetrachloride	U	U	0.5		1	10/12/12 19:41	TO-15/R3 Q4230
Chlorobenzene	U	U	0.5		1	10/12/12 19:41	TO-15/R3 Q4230
Chloroethane	U	U	0.5		1	10/12/12 19:41	TO-15/R3 Q4230
Chloroform	U	U	0.5		1	10/12/12 19:41	TO-15/R3 Q4230
Chloromethane	0.9	0.4	0.5	J	1	10/12/12 19:41	TO-15/R3 Q4230
Dibromochloromethane	U	U	0.5		1	10/12/12 19:41	TO-15/R3 Q4230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/12/12 19:41	TO-15/R3 Q4230
1,2-Dichlorobenzene	U	U	0.5		1	10/12/12 19:41	TO-15/R3 Q4230
1,3-Dichlorobenzene	U	U	0.5		1	10/12/12 19:41	TO-15/R3 Q4230
1,4-Dichlorobenzene	U	U	0.5		1	10/12/12 19:41	TO-15/R3 Q4230
Dichlorodifluoromethane	3.1	0.6	0.5		1	10/12/12 19:41	TO-15/R3 Q4230
1,1-Dichloroethane	U	U	0.5		1	10/12/12 19:41	TO-15/R3 Q4230
1,2-Dichloroethane	U	U	0.5		1	10/12/12 19:41	TO-15/R3 Q4230
1,1-Dichloroethene	U	U	0.5		1	10/12/12 19:41	TO-15/R3 Q4230
cis-1,2-Dichloroethene	U	U	0.5		1	10/12/12 19:41	TO-15/R3 Q4230
trans-1,2-Dichloroethene	U	U	0.5		1	10/12/12 19:41	TO-15/R3 Q4230
1,2-Dichloropropene	U	U	0.5		1	10/12/12 19:41	TO-15/R3 Q4230
cis-1,3-Dichloropropene	U	U	0.5		1	10/12/12 19:41	TO-15/R3 Q4230
trans-1,3-Dichloropropene	U	U	0.5		1	10/12/12 19:41	TO-15/R3 Q4230
Dichlorotetrafluoroethane	U	U	0.5		1	10/12/12 19:41	TO-15/R3 Q4230
Ethanol	2.8	1.4	0.5	L	1	10/12/12 19:41	TO-15/R3 Q4230
Ethylbenzene	U	U	0.5		1	10/12/12 19:41	TO-15/R3 Q4230
Heon 113	U	U	0.5		1	10/12/12 19:41	TO-15/R3 Q4230
Hexachlorobutadiene	U	U	0.5		1	10/12/12 19:41	TO-15/R3 Q4230
Methyl tert-Butyl Ether	U	U	0.5		1	10/12/12 19:41	TO-15/R3 Q4230
4-Methyl-2-pentanone	U	U	0.5		1	10/12/12 19:41	TO-15/R3 Q4230
Methylene Chloride	U	U	0.5		1	10/12/12 19:41	TO-15/R3 Q4230
Naphthalene	U	U	0.5		1	10/12/12 19:41	TO-15/R3 Q4230
Propylene	U	U	0.5		1	10/12/12 19:41	TO-15/R3 Q4230

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-093012-2	Lab ID: 1210002-06
Sample Matrix: Air	Date Collected: 09/30/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifiers	Dilution	Analysed	Method/SCDW
Styrene	U	U	0.5		1	10/12/12 19:41	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/12/12 19:41	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	10/12/12 19:41	TO-15/RS QA230
Toluene	0.8	0.2	0.5	J	1	10/12/12 19:41	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/12/12 19:41	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/12/12 19:41	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/12/12 19:41	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	10/12/12 19:41	TO-15/RS QA230
Trichlorofluoromethane	1.6	0.3	0.5	J	1	10/12/12 19:41	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/12/12 19:41	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/12/12 19:41	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	10/12/12 19:41	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	10/12/12 19:41	TO-15/RS QA230
o-Xylene	U	U	0.5		1	10/12/12 19:41	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifiers	%Recovery	%Recovery Limits	Expanded	Analysed	Method/SCDW
<i>Surrogate: Bromofluorobenzene</i>	9.29		93%	80-120	100%±12	10/12/12 19:41	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-093012-2C0	Lab ID: 1210002-07
Sample Matrix: Air	Date Collected: 09/30/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Benzene	U	U	0.5		1	10/12/12 20:25	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	10/12/12 20:25	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	10/12/12 20:25	TO-15/RS QA230
Bromoform	U	U	0.5		1	10/12/12 20:25	TO-15/RS QA230
Bromoethane	U	U	0.5		1	10/12/12 20:25	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	10/12/12 20:25	TO-15/RS QA230
2-Butanone	U	U	0.5		1	10/12/12 20:25	TO-15/RS QA230
Carbon disulfide	U	U	0.5	UL	1	10/12/12 20:25	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	10/12/12 20:25	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	10/12/12 20:25	TO-15/RS QA230
Chloroethane	U	U	0.5		1	10/12/12 20:25	TO-15/RS QA230
Chloroform	U	U	0.5		1	10/12/12 20:25	TO-15/RS QA230
Chloromethane	1.0	0.5	0.5		1	10/12/12 20:25	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	10/12/12 20:25	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/12/12 20:25	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/12/12 20:25	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/12/12 20:25	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/12/12 20:25	TO-15/RS QA230
Dichlorodifluoromethane	3.4	0.7	0.5		1	10/12/12 20:25	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	10/12/12 20:25	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	10/12/12 20:25	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	10/12/12 20:25	TO-15/RS QA230
cis-1,2-Dichloroethane	U	U	0.5		1	10/12/12 20:25	TO-15/RS QA230
trans-1,2-Dichloroethane	U	U	0.5		1	10/12/12 20:25	TO-15/RS QA230
1,2-Dichloropropane	U	U	0.5		1	10/12/12 20:25	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/12/12 20:25	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/12/12 20:25	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/12/12 20:25	TO-15/RS QA230
Ethanol	U	U	0.5	UL	1	10/12/12 20:25	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	10/12/12 20:25	TO-15/RS QA230
Freon 113	U	U	0.5		1	10/12/12 20:25	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	10/12/12 20:25	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/12/12 20:25	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/12/12 20:25	TO-15/RS QA230
Methylene Chloride	0.7	0.2	0.5	J	1	10/12/12 20:25	TO-15/RS QA230
Naphthalene	U	U	0.5		1	10/12/12 20:25	TO-15/RS QA230
Propylene	U	U	0.5		1	10/12/12 20:25	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-093012-2C0	Lab ID: 1210002-07
Sample Matrix: Air	Date Collected: 09/30/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF
Styrene	U	U	0.5		1	10/12/12 20 25	TO-15/R3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/12/12 20 25	TO-15/R3 QA230
Tetrachloroethene	U	U	0.5		1	10/12/12 20 25	TO-15/R3 QA230
Toluene	1.7	0.4	0.5	J	1	10/12/12 20 25	TO-15/R3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/12/12 20 25	TO-15/R3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/12/12 20 25	TO-15/R3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/12/12 20 25	TO-15/R3 QA230
Trichloroethene	U	U	0.5		1	10/12/12 20 25	TO-15/R3 QA230
Trichlorofluoromethane	1.8	0.3	0.5	J	1	10/12/12 20 25	TO-15/R3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/12/12 20 25	TO-15/R3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/12/12 20 25	TO-15/R3 QA230
Vinyl chloride	U	U	0.5		1	10/12/12 20 25	TO-15/R3 QA230
m,p-Xylene	U	U	1.0		1	10/12/12 20 25	TO-15/R3 QA230
o-Xylene	U	U	0.5		1	10/12/12 20 25	TO-15/R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCDF
Surrogate: Bromofluorobenzene	9.29		93%	80-120	100%/12	10/12/12 20 25	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-093012-3	Lab ID: 1210002-08
Sample Matrix: Air	Date Collected: 09/30/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/SCM#
Benzene	0.6	0.2	0.5	J	1	10/12/12 21:09	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
Bromofom	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
Bromomethane	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
2-Butanone	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
Carbon disulfide	U	U	0.5	UL	1	10/12/12 21:09	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
Chloroethane	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
Chloroform	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
Chloromethane	1.0	0.5	0.5		1	10/12/12 21:09	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
Dichlorodifluoromethane	3.4	0.7	0.5		1	10/12/12 21:09	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
1,2-Dichloropropane	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
Ethanol	2.3	1.2	0.5	L	1	10/12/12 21:09	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
Freon 113	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
Methylene Chloride	0.8	0.2	0.5	J	1	10/12/12 21:09	TO-15/RS QA230
Naphthalene	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-093012-3	Lab ID: 1210002-08
Sample Matrix: Air	Date Collected: 09/30/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifies	Dilution	Analysed	Method/SCDF
Propylene	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
Styrene	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
Toluene	1.5	0.4	0.5	J	1	10/12/12 21:09	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
Trichlorofluoromethane	1.7	0.3	0.5	J	1	10/12/12 21:09	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	10/12/12 21:09	TO-15/RS QA230
o-Xylene	U	U	0.5		1	10/12/12 21:09	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifies	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCDF
<i>Surrogate: Bromofluorobenzene</i>	9.40		94%	80-120	100% ± 12	10/12/12 21:09	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5350



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-092712	Lab ID: 1210002-09
Sample Matrix: Air	Date Collected: 09/27/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Benzene	0.7	0.2	0.5	J	1	10/12/12 21:52	TO-15/R3 QA230
Benzyl chloride	U	U	0.5		1	10/12/12 21:52	TO-15/R3 QA230
Bromodichloromethane	U	U	0.5		1	10/12/12 21:52	TO-15/R3 QA230
Bromofom	U	U	0.5		1	10/12/12 21:52	TO-15/R3 QA230
Bromomethane	U	U	0.5		1	10/12/12 21:52	TO-15/R3 QA230
1,3-Butadiene	U	U	0.5		1	10/12/12 21:52	TO-15/R3 QA230
2-Butanone	0.7	0.2	0.5	J	1	10/12/12 21:52	TO-15/R3 QA230
Carbon disulfide	U	U	0.5	UL	1	10/12/12 21:52	TO-15/R3 QA230
Carbon Tetrachloride	U	U	0.5		1	10/12/12 21:52	TO-15/R3 QA230
Chlorobenzene	U	U	0.5		1	10/12/12 21:52	TO-15/R3 QA230
Chloroethane	U	U	0.5		1	10/12/12 21:52	TO-15/R3 QA230
Chloroform	U	U	0.5		1	10/12/12 21:52	TO-15/R3 QA230
Chloromethane	1.1	0.5	0.5		1	10/12/12 21:52	TO-15/R3 QA230
Dibromochloromethane	U	U	0.5		1	10/12/12 21:52	TO-15/R3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/12/12 21:52	TO-15/R3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/12/12 21:52	TO-15/R3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/12/12 21:52	TO-15/R3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/12/12 21:52	TO-15/R3 QA230
Dichlorodifluoromethane	3.5	0.7	0.5		1	10/12/12 21:52	TO-15/R3 QA230
1,1-Dichloroethane	U	U	0.5		1	10/12/12 21:52	TO-15/R3 QA230
1,2-Dichloroethane	U	U	0.5		1	10/12/12 21:52	TO-15/R3 QA230
1,1-Dichloroethene	U	U	0.5		1	10/12/12 21:52	TO-15/R3 QA230
cis-1,2-Dichloroethane	U	U	0.5		1	10/12/12 21:52	TO-15/R3 QA230
trans-1,2-Dichloroethane	U	U	0.5		1	10/12/12 21:52	TO-15/R3 QA230
1,2-Dichloropropene	U	U	0.5		1	10/12/12 21:52	TO-15/R3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/12/12 21:52	TO-15/R3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/12/12 21:52	TO-15/R3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/12/12 21:52	TO-15/R3 QA230
Ethanol	42.4	22.3	1.0	L	2	10/19/12 18:40	TO-15/R3 QA230
Ethylbenzene	U	U	0.5		1	10/12/12 21:52	TO-15/R3 QA230
Heon 113	U	U	0.5		1	10/12/12 21:52	TO-15/R3 QA230
Hexachlorobutadiene	U	U	0.5		1	10/12/12 21:52	TO-15/R3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/12/12 21:52	TO-15/R3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/12/12 21:52	TO-15/R3 QA230
Methylene Chloride	U	U	0.5		1	10/12/12 21:52	TO-15/R3 QA230
Naphthalene	U	U	0.5		1	10/12/12 21:52	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-092712	Lab ID: 1210002-09
Sample Matrix: Air	Date Collected: 09/27/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	10/12/12 21:52	TO-15/F3 QA230
Styrene	U	U	0.5		1	10/12/12 21:52	TO-15/F3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/12/12 21:52	TO-15/F3 QA230
Tetrachloroethene	U	U	0.5		1	10/12/12 21:52	TO-15/F3 QA230
Toluene	5.8	1.5	0.5		1	10/12/12 21:52	TO-15/F3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/12/12 21:52	TO-15/F3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/12/12 21:52	TO-15/F3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/12/12 21:52	TO-15/F3 QA230
Trichloroethene	U	U	0.5		1	10/12/12 21:52	TO-15/F3 QA230
Trichlorofluoromethane	1.8	0.3	0.5	J	1	10/12/12 21:52	TO-15/F3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/12/12 21:52	TO-15/F3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/12/12 21:52	TO-15/F3 QA230
Vinyl chloride	U	U	0.5		1	10/12/12 21:52	TO-15/F3 QA230
m,p-Xylene	U	U	1.0		1	10/12/12 21:52	TO-15/F3 QA230
o-Xylene	U	U	0.5		1	10/12/12 21:52	TO-15/F3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Prepared	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.46		95%	80-120	10/04/12	10/12/12 21:52	TO-15/F3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-093012	Lab ID: 1210002-10
Sample Matrix: Air	Date Collected: 09/30/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/DOE#
Benzene	1.9	0.6	0.5		1	10/12/12 2235	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	10/12/12 2235	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	10/12/12 2235	TO-15/RS QA230
Bromoform	U	U	0.5		1	10/12/12 2235	TO-15/RS QA230
Bromoethane	U	U	0.5		1	10/12/12 2235	TO-15/RS QA230
1,3-Butadiene	0.4	0.2	0.5	J	1	10/12/12 2235	TO-15/RS QA230
2-Butanone	14.2	4.8	0.5		1	10/12/12 2235	TO-15/RS QA230
Carbon disulfide	0.6	0.2	0.5	L, J	1	10/12/12 2235	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	10/12/12 2235	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	10/12/12 2235	TO-15/RS QA230
Chloroethane	U	U	0.5		1	10/12/12 2235	TO-15/RS QA230
Chloroform	U	U	0.5		1	10/12/12 2235	TO-15/RS QA230
Chloromethane	1.7	0.8	0.5		1	10/12/12 2235	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	10/12/12 2235	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/12/12 2235	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/12/12 2235	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/12/12 2235	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/12/12 2235	TO-15/RS QA230
Dichlorodifluoromethane	2.9	0.6	0.5		1	10/12/12 2235	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	10/12/12 2235	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	10/12/12 2235	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	10/12/12 2235	TO-15/RS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	10/12/12 2235	TO-15/RS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	10/12/12 2235	TO-15/RS QA230
1,2-Dichloropropane	5.4	1.2	0.5		1	10/12/12 2235	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/12/12 2235	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/12/12 2235	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/12/12 2235	TO-15/RS QA230
Ethanol	74.1	39.0	2.0	L	4	10/19/12 19:19	TO-15/RS QA230
Ethylbenzene	2.4	0.6	0.5		1	10/12/12 2235	TO-15/RS QA230
Heon 113	U	U	0.5		1	10/12/12 2235	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	10/12/12 2235	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/12/12 2235	TO-15/RS QA230
4-Methyl-2-pentanone	6.4	1.6	0.5		1	10/12/12 2235	TO-15/RS QA230
Methylene Chloride	5.6	1.6	0.5		1	10/12/12 2235	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FL0-VOC-093012	Lab ID: 1210002-10
Sample Matrix: Air	Date Collected: 09/30/2012

**Volatile Organic Compounds
Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Naphthalene	1.6	0.3	0.5	J	1	10/12/12 2235	TO-15/RS QA230
Propylene	U	U	0.5	UL	1	10/12/12 2235	TO-15/RS QA230
Styrene	2.1	0.5	0.5	K	1	10/12/12 2235	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/12/12 2235	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	10/12/12 2235	TO-15/RS QA230
Toluene	103	27.0	2.0		4	10/19/12 19:19	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/12/12 2235	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/12/12 2235	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/12/12 2235	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	10/12/12 2235	TO-15/RS QA230
Trichlorofluoromethane	1.7	0.3	0.5	J	1	10/12/12 2235	TO-15/RS QA230
1,2,4-Trimethylbenzene	2.0	0.4	0.5	K, J	1	10/12/12 2235	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/12/12 2235	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	10/12/12 2235	TO-15/RS QA230
m,p-Xylene	7.8	1.8	1.0		1	10/12/12 2235	TO-15/RS QA230
o-Xylene	1.9	0.4	0.5	J	1	10/12/12 2235	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limits	Prepared	Analysed	Method/SCM#
Surrogate: Bromofluorobenzene	9.81		98%	80-120	10/04/12	10/12/12 2235	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-100312-1	Lab ID: 1210002-11
Sample Matrix: Air	Date Collected: 10/03/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualities	Dilution	Analysis	Method/SCM#
Benzene	0.6	0.2	0.5	J	1	10/12/12 23:19	TO-15/E3 QA230
Benzyl chloride	U	U	0.5		1	10/12/12 23:19	TO-15/E3 QA230
Bromodichloromethane	U	U	0.5		1	10/12/12 23:19	TO-15/E3 QA230
Bromoform	U	U	0.5		1	10/12/12 23:19	TO-15/E3 QA230
Bromoethane	U	U	0.5		1	10/12/12 23:19	TO-15/E3 QA230
1,3-Butadiene	U	U	0.5		1	10/12/12 23:19	TO-15/E3 QA230
2-Butanone	0.7	0.2	0.5	J	1	10/12/12 23:19	TO-15/E3 QA230
Carbon disulfide	U	U	0.5	UL	1	10/12/12 23:19	TO-15/E3 QA230
Carbon Tetrachloride	U	U	0.5		1	10/12/12 23:19	TO-15/E3 QA230
Chlorobenzene	U	U	0.5		1	10/12/12 23:19	TO-15/E3 QA230
Chloroethane	U	U	0.5		1	10/12/12 23:19	TO-15/E3 QA230
Chloroform	U	U	0.5		1	10/12/12 23:19	TO-15/E3 QA230
Chloromethane	1.4	0.6	0.5		1	10/12/12 23:19	TO-15/E3 QA230
Dibromochloromethane	U	U	0.5		1	10/12/12 23:19	TO-15/E3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/12/12 23:19	TO-15/E3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/12/12 23:19	TO-15/E3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/12/12 23:19	TO-15/E3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/12/12 23:19	TO-15/E3 QA230
Dichlorodifluoromethane	3.6	0.7	0.5		1	10/12/12 23:19	TO-15/E3 QA230
1,1-Dichloroethane	U	U	0.5		1	10/12/12 23:19	TO-15/E3 QA230
1,2-Dichloroethane	U	U	0.5		1	10/12/12 23:19	TO-15/E3 QA230
1,1-Dichloroethene	U	U	0.5		1	10/12/12 23:19	TO-15/E3 QA230
cis-1,2-Dichloroethane	U	U	0.5		1	10/12/12 23:19	TO-15/E3 QA230
trans-1,2-Dichloroethane	U	U	0.5		1	10/12/12 23:19	TO-15/E3 QA230
1,2-Dichloropropane	U	U	0.5		1	10/12/12 23:19	TO-15/E3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/12/12 23:19	TO-15/E3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/12/12 23:19	TO-15/E3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/12/12 23:19	TO-15/E3 QA230
Ethanol	8.9	4.7	0.5	L	1	10/12/12 23:19	TO-15/E3 QA230
Ethylbenzene	U	U	0.5		1	10/12/12 23:19	TO-15/E3 QA230
Freon 113	U	U	0.5		1	10/12/12 23:19	TO-15/E3 QA230
Hexachlorobutadiene	U	U	0.5		1	10/12/12 23:19	TO-15/E3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/12/12 23:19	TO-15/E3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/12/12 23:19	TO-15/E3 QA230
Methylene Chloride	0.6	0.2	0.5	J	1	10/12/12 23:19	TO-15/E3 QA230
Naphthalene	U	U	0.5		1	10/12/12 23:19	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5350



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-100312-1	Lab ID: 1210002-11
Sample Matrix: Air	Date Collected: 10/03/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF#
Propylene	U	U	0.5		1	10/12/12 23:19	TO-15/RS QA230
Styrene	U	U	0.5		1	10/12/12 23:19	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/12/12 23:19	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	10/12/12 23:19	TO-15/RS QA230
Toluene	8.1	2.1	0.5		1	10/12/12 23:19	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/12/12 23:19	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/12/12 23:19	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/12/12 23:19	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	10/12/12 23:19	TO-15/RS QA230
Trichlorofluoromethane	1.8	0.3	0.5	J	1	10/12/12 23:19	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/12/12 23:19	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/12/12 23:19	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	10/12/12 23:19	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	10/12/12 23:19	TO-15/RS QA230
o-Xylene	U	U	0.5		1	10/12/12 23:19	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCDF#
<i>Surrogate: Bromofluorobenzene</i>	9.37		94%	80-120	10/06/12	10/12/12 23:19	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-100312-2	Lab ID: 1210002-12
Sample Matrix: Air	Date Collected: 10/03/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/QCF#
Benzene	0.7	0.2	0.5	J	1	10/13/12 00:02	TO-15/E3 QA230
Benzyl chloride	U	U	0.5		1	10/13/12 00:02	TO-15/E3 QA230
Bromodichloromethane	U	U	0.5		1	10/13/12 00:02	TO-15/E3 QA230
Bromofom	U	U	0.5		1	10/13/12 00:02	TO-15/E3 QA230
Bromomethane	U	U	0.5		1	10/13/12 00:02	TO-15/E3 QA230
1,3-Butadiene	U	U	0.5		1	10/13/12 00:02	TO-15/E3 QA230
2-Butanone	0.9	0.3	0.5	J	1	10/13/12 00:02	TO-15/E3 QA230
Carbon disulfide	U	U	0.5	UL	1	10/13/12 00:02	TO-15/E3 QA230
Carbon Tetrachloride	U	U	0.5		1	10/13/12 00:02	TO-15/E3 QA230
Chlorobenzene	U	U	0.5		1	10/13/12 00:02	TO-15/E3 QA230
Chloroethane	U	U	0.5		1	10/13/12 00:02	TO-15/E3 QA230
Chloroform	U	U	0.5		1	10/13/12 00:02	TO-15/E3 QA230
Chloromethane	1.1	0.5	0.5		1	10/13/12 00:02	TO-15/E3 QA230
Dibromochloromethane	U	U	0.5		1	10/13/12 00:02	TO-15/E3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/13/12 00:02	TO-15/E3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/13/12 00:02	TO-15/E3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/13/12 00:02	TO-15/E3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/13/12 00:02	TO-15/E3 QA230
Dichlorodifluoromethane	3.1	0.6	0.5		1	10/13/12 00:02	TO-15/E3 QA230
1,1-Dichloroethane	U	U	0.5		1	10/13/12 00:02	TO-15/E3 QA230
1,2-Dichloroethane	U	U	0.5		1	10/13/12 00:02	TO-15/E3 QA230
1,1-Dichloroethene	U	U	0.5		1	10/13/12 00:02	TO-15/E3 QA230
cis-1,2-Dichloroethane	U	U	0.5		1	10/13/12 00:02	TO-15/E3 QA230
trans-1,2-Dichloroethane	U	U	0.5		1	10/13/12 00:02	TO-15/E3 QA230
1,2-Dichloropropane	U	U	0.5		1	10/13/12 00:02	TO-15/E3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/13/12 00:02	TO-15/E3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/13/12 00:02	TO-15/E3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/13/12 00:02	TO-15/E3 QA230
Ethanol	11.7	6.1	0.5	L	1	10/13/12 00:02	TO-15/E3 QA230
Ethylbenzene	U	U	0.5		1	10/13/12 00:02	TO-15/E3 QA230
Heon 113	U	U	0.5		1	10/13/12 00:02	TO-15/E3 QA230
Hexachlorobutadiene	U	U	0.5		1	10/13/12 00:02	TO-15/E3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/13/12 00:02	TO-15/E3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/13/12 00:02	TO-15/E3 QA230
Methylene Chloride	1.4	0.4	0.5	J	1	10/13/12 00:02	TO-15/E3 QA230
Naphthalene	U	U	0.5		1	10/13/12 00:02	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-100312-2	Lab ID: 1210002-12
Sample Matrix: Air	Date Collected: 10/03/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	10/13/12 00 02	TO-15/E3 QA230
Styrene	U	U	0.5		1	10/13/12 00 02	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/13/12 00 02	TO-15/E3 QA230
Tetrachloroethene	U	U	0.5		1	10/13/12 00 02	TO-15/E3 QA230
Toluene	101	2.6	0.5		1	10/13/12 00 02	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/13/12 00 02	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/13/12 00 02	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/13/12 00 02	TO-15/E3 QA230
Trichloroethene	U	U	0.5		1	10/13/12 00 02	TO-15/E3 QA230
Trichlorofluoromethane	1.6	0.3	0.5	J	1	10/13/12 00 02	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/13/12 00 02	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/13/12 00 02	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	10/13/12 00 02	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	10/13/12 00 02	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	10/13/12 00 02	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	Limit	Prepared	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.34		93%	80-120	10/04/12	10/13/12 00 02	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5390



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-100312-3	Lab ID: 1210002-13
Sample Matrix: Air	Date Collected: 10/03/2012

Volatile Organic Compounds
 Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/DOC#
Benzene	0.5	0.2	0.5	J	1	10/13/120045	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	10/13/120045	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	10/13/120045	TO-15/RS QA230
Bromoform	U	U	0.5		1	10/13/120045	TO-15/RS QA230
Bromomethane	U	U	0.5		1	10/13/120045	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	10/13/120045	TO-15/RS QA230
2-Butanone	0.6	0.2	0.5	J	1	10/13/120045	TO-15/RS QA230
Carbon disulfide	U	U	0.5	UL	1	10/13/120045	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	10/13/120045	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	10/13/120045	TO-15/RS QA230
Chloroethane	U	U	0.5		1	10/13/120045	TO-15/RS QA230
Chloroform	U	U	0.5		1	10/13/120045	TO-15/RS QA230
Chloromethane	1.0	0.5	0.5		1	10/13/120045	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	10/13/120045	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/13/120045	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/13/120045	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/13/120045	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/13/120045	TO-15/RS QA230
Dichlorodifluoromethane	3.0	0.6	0.5		1	10/13/120045	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	10/13/120045	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	10/13/120045	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	10/13/120045	TO-15/RS QA230
cis-1,2-Dichloroethane	U	U	0.5		1	10/13/120045	TO-15/RS QA230
trans-1,2-Dichloroethane	U	U	0.5		1	10/13/120045	TO-15/RS QA230
1,2-Dichloropropene	U	U	0.5		1	10/13/120045	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/13/120045	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/13/120045	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/13/120045	TO-15/RS QA230
Ethanol	6.9	3.6	0.5	L	1	10/13/120045	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	10/13/120045	TO-15/RS QA230
Heon 113	U	U	0.5		1	10/13/120045	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	10/13/120045	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/13/120045	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/13/120045	TO-15/RS QA230
Methylene Chloride	0.5	0.2	0.5	J	1	10/13/120045	TO-15/RS QA230
Naphthalene	U	U	0.5		1	10/13/120045	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-100312-3	Lab ID: 1210002-13
Sample Matrix: Air	Date Collected: 10/03/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/REF
Propylene	U	U	0.5		1	10/13/12 00:45	TO-15/R3 QA230
Styrene	U	U	0.5		1	10/13/12 00:45	TO-15/R3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/13/12 00:45	TO-15/R3 QA230
Tetrachloroethene	U	U	0.5		1	10/13/12 00:45	TO-15/R3 QA230
Toluene	6.3	1.6	0.5		1	10/13/12 00:45	TO-15/R3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/13/12 00:45	TO-15/R3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/13/12 00:45	TO-15/R3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/13/12 00:45	TO-15/R3 QA230
Trichloroethene	U	U	0.5		1	10/13/12 00:45	TO-15/R3 QA230
Trichlorofluoromethane	1.6	0.3	0.5	J	1	10/13/12 00:45	TO-15/R3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/13/12 00:45	TO-15/R3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/13/12 00:45	TO-15/R3 QA230
Vinyl chloride	U	U	0.5		1	10/13/12 00:45	TO-15/R3 QA230
m,p-Xylene	U	U	1.0		1	10/13/12 00:45	TO-15/R3 QA230
o-Xylene	U	U	0.5		1	10/13/12 00:45	TO-15/R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/REF
<i>Surrogate: Bromofluorobenzene</i>	9.23		92%	80-120	100%±2	10/13/12 00:45	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-100612-1	Lab ID: 1210002-14
Sample Matrix: Air	Date Collected: 10/06/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Benzene	U	U	0.5		1	10/13/12 01:29	TO-15/E3 QA230
Benzyl chloride	U	U	0.5		1	10/13/12 01:29	TO-15/E3 QA230
Bromodichloromethane	U	U	0.5		1	10/13/12 01:29	TO-15/E3 QA230
Bromoform	U	U	0.5		1	10/13/12 01:29	TO-15/E3 QA230
Bromomethane	U	U	0.5		1	10/13/12 01:29	TO-15/E3 QA230
1,3-Butadiene	U	U	0.5		1	10/13/12 01:29	TO-15/E3 QA230
2-Butanone	U	U	0.5		1	10/13/12 01:29	TO-15/E3 QA230
Carbon disulfide	U	U	0.5	UL	1	10/13/12 01:29	TO-15/E3 QA230
Carbon Tetrachloride	U	U	0.5		1	10/13/12 01:29	TO-15/E3 QA230
Chlorobenzene	U	U	0.5		1	10/13/12 01:29	TO-15/E3 QA230
Chloroethane	U	U	0.5		1	10/13/12 01:29	TO-15/E3 QA230
Chloroform	U	U	0.5		1	10/13/12 01:29	TO-15/E3 QA230
Chloromethane	0.9	0.4	0.5	J	1	10/13/12 01:29	TO-15/E3 QA230
Dibromochloromethane	U	U	0.5		1	10/13/12 01:29	TO-15/E3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/13/12 01:29	TO-15/E3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/13/12 01:29	TO-15/E3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/13/12 01:29	TO-15/E3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/13/12 01:29	TO-15/E3 QA230
Dichlorodifluoromethane	3.0	0.6	0.5		1	10/13/12 01:29	TO-15/E3 QA230
1,1-Dichloroethane	U	U	0.5		1	10/13/12 01:29	TO-15/E3 QA230
1,2-Dichloroethane	U	U	0.5		1	10/13/12 01:29	TO-15/E3 QA230
1,1-Dichloroethene	U	U	0.5		1	10/13/12 01:29	TO-15/E3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	10/13/12 01:29	TO-15/E3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	10/13/12 01:29	TO-15/E3 QA230
1,2-Dichloropropane	U	U	0.5		1	10/13/12 01:29	TO-15/E3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/13/12 01:29	TO-15/E3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/13/12 01:29	TO-15/E3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/13/12 01:29	TO-15/E3 QA230
Ethanol	3.3	1.8	0.5	L	1	10/13/12 01:29	TO-15/E3 QA230
Ethylbenzene	U	U	0.5		1	10/13/12 01:29	TO-15/E3 QA230
Heon 113	U	U	0.5		1	10/13/12 01:29	TO-15/E3 QA230
Hexachlorobutadiene	U	U	0.5		1	10/13/12 01:29	TO-15/E3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/13/12 01:29	TO-15/E3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/13/12 01:29	TO-15/E3 QA230
Methylene Chloride	U	U	0.5		1	10/13/12 01:29	TO-15/E3 QA230
Naphthalene	U	U	0.5		1	10/13/12 01:29	TO-15/E3 QA230
Propylene	U	U	0.5		1	10/13/12 01:29	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-100612-1	Lab ID: 1210002-14
Sample Matrix: Air	Date Collected: 10/06/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF
Styrene	U	U	0.5		1	10/13/12 01 29	TO-15/E3 Q4230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/13/12 01 29	TO-15/E3 Q4230
Tetrachloroethene	U	U	0.5		1	10/13/12 01 29	TO-15/E3 Q4230
Toluene	1.6	0.4	0.5	J	1	10/13/12 01 29	TO-15/E3 Q4230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/13/12 01 29	TO-15/E3 Q4230
1,1,1-Trichloroethane	U	U	0.5		1	10/13/12 01 29	TO-15/E3 Q4230
1,1,2-Trichloroethane	U	U	0.5		1	10/13/12 01 29	TO-15/E3 Q4230
Trichloroethene	U	U	0.5		1	10/13/12 01 29	TO-15/E3 Q4230
Trichlorofluoromethane	1.6	0.3	0.5	J	1	10/13/12 01 29	TO-15/E3 Q4230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/13/12 01 29	TO-15/E3 Q4230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/13/12 01 29	TO-15/E3 Q4230
Vinyl chloride	U	U	0.5		1	10/13/12 01 29	TO-15/E3 Q4230
m,p-Xylene	U	U	1.0		1	10/13/12 01 29	TO-15/E3 Q4230
o-Xylene	U	U	0.5		1	10/13/12 01 29	TO-15/E3 Q4230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCDF
<i>Surrogate: Bromofluorobenzene</i>	9.18		92%	80-120	10/13/12	10/13/12 01 29	TO-15/E3 Q4230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-100612-2.o	Lab ID: 1210002-15
Sample Matrix: Air	Date Collected: 10/06/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF
Benzene	U	U	0.5		1	10/19/12 15:05	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	10/19/12 15:05	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	10/19/12 15:05	TO-15/RS QA230
Bromoforn	U	U	0.5		1	10/19/12 15:05	TO-15/RS QA230
Bromomethane	U	U	0.5		1	10/19/12 15:05	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	10/19/12 15:05	TO-15/RS QA230
2-Butanone	0.6	0.2	0.5	J	1	10/19/12 15:05	TO-15/RS QA230
Carbon disulfide	U	U	0.5	UL	1	10/19/12 15:05	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	10/19/12 15:05	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	10/19/12 15:05	TO-15/RS QA230
Chloroethane	U	U	0.5		1	10/19/12 15:05	TO-15/RS QA230
Chloroform	U	U	0.5		1	10/19/12 15:05	TO-15/RS QA230
Chloromethane	1.0	0.5	0.5		1	10/19/12 15:05	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	10/19/12 15:05	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/19/12 15:05	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/19/12 15:05	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/19/12 15:05	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/19/12 15:05	TO-15/RS QA230
Dichlorodifluoromethane	2.9	0.6	0.5		1	10/19/12 15:05	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	10/19/12 15:05	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	10/19/12 15:05	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	10/19/12 15:05	TO-15/RS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	10/19/12 15:05	TO-15/RS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	10/19/12 15:05	TO-15/RS QA230
1,2-Dichloropropane	U	U	0.5		1	10/19/12 15:05	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/19/12 15:05	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/19/12 15:05	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/19/12 15:05	TO-15/RS QA230
Ethanol	6.6	3.5	0.5	L	1	10/19/12 15:05	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	10/19/12 15:05	TO-15/RS QA230
Front 113	U	U	0.5		1	10/19/12 15:05	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	10/19/12 15:05	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/19/12 15:05	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/19/12 15:05	TO-15/RS QA230
Methylene Chloride	1.6	0.5	0.5		1	10/19/12 15:05	TO-15/RS QA230
Naphthalene	U	U	0.5		1	10/19/12 15:05	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-100612-2c	Lab ID: 1210002-15
Sample Matrix: Air	Date Collected: 10/06/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDH
Propylene	U	U	0.5		1	10/19/12 15:05	TO-15/E3 QA230
Styrene	U	U	0.5		1	10/19/12 15:05	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/19/12 15:05	TO-15/E3 QA230
Tetrachloroethene	U	U	0.5		1	10/19/12 15:05	TO-15/E3 QA230
Toluene	1.4	0.4	0.5	J	1	10/19/12 15:05	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/19/12 15:05	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/19/12 15:05	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/19/12 15:05	TO-15/E3 QA230
Trichloroethene	U	U	0.5		1	10/19/12 15:05	TO-15/E3 QA230
Trichlorofluoromethane	1.6	0.3	0.5	J	1	10/19/12 15:05	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/19/12 15:05	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/19/12 15:05	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	10/19/12 15:05	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	10/19/12 15:05	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	10/19/12 15:05	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	Limit	Prepared	Analysed	Method/SCDH
<i>Surrogate: Bromofluorobenzene</i>	9.15		92%	80-120	10/19/12	10/19/12 15:05	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-100612-3	Lab ID: 1210002-16
Sample Matrix: Air	Date Collected: 10/06/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/DCP#
Benzene	U	U	0.5		1	10/19/12 15:48	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	10/19/12 15:48	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	10/19/12 15:48	TO-15/RS QA230
Bromoform	U	U	0.5		1	10/19/12 15:48	TO-15/RS QA230
Bromoethane	U	U	0.5		1	10/19/12 15:48	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	10/19/12 15:48	TO-15/RS QA230
2-Butanone	U	U	0.5		1	10/19/12 15:48	TO-15/RS QA230
Carbon disulfide	U	U	0.5	UL	1	10/19/12 15:48	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	10/19/12 15:48	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	10/19/12 15:48	TO-15/RS QA230
Chloroethane	U	U	0.5		1	10/19/12 15:48	TO-15/RS QA230
Chloroform	U	U	0.5		1	10/19/12 15:48	TO-15/RS QA230
Chloromethane	0.9	0.4	0.5	J	1	10/19/12 15:48	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	10/19/12 15:48	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/19/12 15:48	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/19/12 15:48	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/19/12 15:48	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/19/12 15:48	TO-15/RS QA230
Dichlorodifluoromethane	2.9	0.6	0.5		1	10/19/12 15:48	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	10/19/12 15:48	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	10/19/12 15:48	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	10/19/12 15:48	TO-15/RS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	10/19/12 15:48	TO-15/RS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	10/19/12 15:48	TO-15/RS QA230
1,2-Dichloropropene	U	U	0.5		1	10/19/12 15:48	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/19/12 15:48	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/19/12 15:48	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/19/12 15:48	TO-15/RS QA230
Ethanol	3.2	1.7	0.5	L	1	10/19/12 15:48	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	10/19/12 15:48	TO-15/RS QA230
Freon 113	U	U	0.5		1	10/19/12 15:48	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	10/19/12 15:48	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/19/12 15:48	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/19/12 15:48	TO-15/RS QA230
Methylene Chloride	U	U	0.5		1	10/19/12 15:48	TO-15/RS QA230
Naphthalene	U	U	0.5		1	10/19/12 15:48	TO-15/RS QA230
Propylene	U	U	0.5		1	10/19/12 15:48	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-100612-3	Lab ID: 1210002-16
Sample Matrix: Air	Date Collected: 10/06/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Styrene	U	U	0.5		1	10/19/12 15:48	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/19/12 15:48	TO-15/E3 QA230
Tetrachloroethene	U	U	0.5		1	10/19/12 15:48	TO-15/E3 QA230
Toluene	1.8	0.5	0.5		1	10/19/12 15:48	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/19/12 15:48	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/19/12 15:48	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/19/12 15:48	TO-15/E3 QA230
Trichloroethene	U	U	0.5		1	10/19/12 15:48	TO-15/E3 QA230
Trichlorofluoromethane	1.6	0.3	0.5	J	1	10/19/12 15:48	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/19/12 15:48	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/19/12 15:48	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	10/19/12 15:48	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	10/19/12 15:48	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	10/19/12 15:48	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery %Recovery Limit	Expanded	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.14		91 % 80-120	10/19/12	10/19/12 15:48	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-100312	Lab ID: 1210002-17
Sample Matrix: Air	Date Collected: 10/03/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SDW
Benzene	1.0	0.3	0.5	J	1	10/19/12 16:32	TO-15/E3 QA230
Benzyl chloride	U	U	0.5		1	10/19/12 16:32	TO-15/E3 QA230
Bromodichloromethane	U	U	0.5		1	10/19/12 16:32	TO-15/E3 QA230
Bromoforn	U	U	0.5		1	10/19/12 16:32	TO-15/E3 QA230
Bromomethane	U	U	0.5		1	10/19/12 16:32	TO-15/E3 QA230
1,3-Butadiene	U	U	0.5		1	10/19/12 16:32	TO-15/E3 QA230
2-Butanone	0.8	0.3	0.5	J	1	10/19/12 16:32	TO-15/E3 QA230
Carbon disulfide	U	U	0.5	UL	1	10/19/12 16:32	TO-15/E3 QA230
Carbon Tetrachloride	U	U	0.5		1	10/19/12 16:32	TO-15/E3 QA230
Chlorobenzene	U	U	0.5		1	10/19/12 16:32	TO-15/E3 QA230
Chloroethane	U	U	0.5		1	10/19/12 16:32	TO-15/E3 QA230
Chloroform	U	U	0.5		1	10/19/12 16:32	TO-15/E3 QA230
Chloromethane	1.0	0.5	0.5		1	10/19/12 16:32	TO-15/E3 QA230
Dibromochloromethane	U	U	0.5		1	10/19/12 16:32	TO-15/E3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/19/12 16:32	TO-15/E3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/19/12 16:32	TO-15/E3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/19/12 16:32	TO-15/E3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/19/12 16:32	TO-15/E3 QA230
Dichlorodifluoromethane	3.1	0.6	0.5		1	10/19/12 16:32	TO-15/E3 QA230
1,1-Dichloroethane	U	U	0.5		1	10/19/12 16:32	TO-15/E3 QA230
1,2-Dichloroethane	U	U	0.5		1	10/19/12 16:32	TO-15/E3 QA230
1,1-Dichloroethene	U	U	0.5		1	10/19/12 16:32	TO-15/E3 QA230
cis-1,2-Dichloroethane	U	U	0.5		1	10/19/12 16:32	TO-15/E3 QA230
trans-1,2-Dichloroethane	U	U	0.5		1	10/19/12 16:32	TO-15/E3 QA230
1,2-Dichloropropene	U	U	0.5		1	10/19/12 16:32	TO-15/E3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/19/12 16:32	TO-15/E3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/19/12 16:32	TO-15/E3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/19/12 16:32	TO-15/E3 QA230
Ethanol	6.7	3.5	0.5	L	1	10/19/12 16:32	TO-15/E3 QA230
Ethylbenzene	U	U	0.5		1	10/19/12 16:32	TO-15/E3 QA230
Heon 113	U	U	0.5		1	10/19/12 16:32	TO-15/E3 QA230
Hexachlorobutadiene	U	U	0.5		1	10/19/12 16:32	TO-15/E3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/19/12 16:32	TO-15/E3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/19/12 16:32	TO-15/E3 QA230
Methylene Chloride	U	U	0.5		1	10/19/12 16:32	TO-15/E3 QA230
Naphthalene	U	U	0.5		1	10/19/12 16:32	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-100312	Lab ID: 1210002-17
Sample Matrix: Air	Date Collected: 10/03/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	10/19/12 16:32	TO-15/ES QA230
Styrene	U	U	0.5		1	10/19/12 16:32	TO-15/ES QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/19/12 16:32	TO-15/ES QA230
Tetrachloroethene	U	U	0.5		1	10/19/12 16:32	TO-15/ES QA230
Toluene	9.5	2.5	0.5		1	10/19/12 16:32	TO-15/ES QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/19/12 16:32	TO-15/ES QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/19/12 16:32	TO-15/ES QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/19/12 16:32	TO-15/ES QA230
Trichloroethene	U	U	0.5		1	10/19/12 16:32	TO-15/ES QA230
Trichlorofluoromethane	1.8	0.3	0.5	J	1	10/19/12 16:32	TO-15/ES QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/19/12 16:32	TO-15/ES QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/19/12 16:32	TO-15/ES QA230
Vinyl chloride	U	U	0.5		1	10/19/12 16:32	TO-15/ES QA230
m,p-Xylene	U	U	1.0		1	10/19/12 16:32	TO-15/ES QA230
o-Xylene	U	U	0.5		1	10/19/12 16:32	TO-15/ES QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.34		93%	80-120	10/19/12	10/19/12 16:32	TO-15/ES QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



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701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-100612	Lab ID: 1210002-18
Sample Matrix: Air	Date Collected: 10/06/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF
Benzene	U	U	0.5		1	10/19/12 17:15	TO-15/R3 QA230
Benzyl chloride	U	U	0.5		1	10/19/12 17:15	TO-15/R3 QA230
Bromodichloromethane	U	U	0.5		1	10/19/12 17:15	TO-15/R3 QA230
Bromoform	U	U	0.5		1	10/19/12 17:15	TO-15/R3 QA230
Bromoethane	U	U	0.5		1	10/19/12 17:15	TO-15/R3 QA230
1,3-Butadiene	U	U	0.5		1	10/19/12 17:15	TO-15/R3 QA230
2-Butanone	U	U	0.5		1	10/19/12 17:15	TO-15/R3 QA230
Carbon disulfide	U	U	0.5	UL	1	10/19/12 17:15	TO-15/R3 QA230
Carbon Tetrachloride	U	U	0.5		1	10/19/12 17:15	TO-15/R3 QA230
Chlorobenzene	U	U	0.5		1	10/19/12 17:15	TO-15/R3 QA230
Chloroethane	U	U	0.5		1	10/19/12 17:15	TO-15/R3 QA230
Chloroform	U	U	0.5		1	10/19/12 17:15	TO-15/R3 QA230
Chloroethane	0.9	0.4	0.5	J	1	10/19/12 17:15	TO-15/R3 QA230
Dibromochloromethane	U	U	0.5		1	10/19/12 17:15	TO-15/R3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/19/12 17:15	TO-15/R3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/19/12 17:15	TO-15/R3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/19/12 17:15	TO-15/R3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/19/12 17:15	TO-15/R3 QA230
Dichlorodifluoromethane	2.9	0.6	0.5		1	10/19/12 17:15	TO-15/R3 QA230
1,1-Dichloroethane	U	U	0.5		1	10/19/12 17:15	TO-15/R3 QA230
1,2-Dichloroethane	U	U	0.5		1	10/19/12 17:15	TO-15/R3 QA230
1,1-Dichloroethene	U	U	0.5		1	10/19/12 17:15	TO-15/R3 QA230
cis-1,2-Dichloroethane	U	U	0.5		1	10/19/12 17:15	TO-15/R3 QA230
trans-1,2-Dichloroethane	U	U	0.5		1	10/19/12 17:15	TO-15/R3 QA230
1,2-Dichloropropane	U	U	0.5		1	10/19/12 17:15	TO-15/R3 QA230
cis-1,3-Dichloropropane	U	U	0.5		1	10/19/12 17:15	TO-15/R3 QA230
trans-1,3-Dichloropropane	U	U	0.5		1	10/19/12 17:15	TO-15/R3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/19/12 17:15	TO-15/R3 QA230
Ethanol	3.0	1.6	0.5	L	1	10/19/12 17:15	TO-15/R3 QA230
Ethylbenzene	U	U	0.5		1	10/19/12 17:15	TO-15/R3 QA230
Fluon 113	U	U	0.5		1	10/19/12 17:15	TO-15/R3 QA230
Hexachlorobutadiene	U	U	0.5		1	10/19/12 17:15	TO-15/R3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/19/12 17:15	TO-15/R3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/19/12 17:15	TO-15/R3 QA230
Methylene Chloride	U	U	0.5		1	10/19/12 17:15	TO-15/R3 QA230
Naphthalene	U	U	0.5		1	10/19/12 17:15	TO-15/R3 QA230
Propylene	U	U	0.5		1	10/19/12 17:15	TO-15/R3 QA230

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-100612	Lab ID: 1210002-18
Sample Matrix: Air	Date Collected: 10/06/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF
Styrene	U	U	0.5		1	10/19/12 17:15	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/19/12 17:15	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	10/19/12 17:15	TO-15/RS QA230
Toluene	2.4	0.6	0.5		1	10/19/12 17:15	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/19/12 17:15	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/19/12 17:15	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/19/12 17:15	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	10/19/12 17:15	TO-15/RS QA230
Trichlorofluoromethane	1.6	0.3	0.5	J	1	10/19/12 17:15	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/19/12 17:15	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/19/12 17:15	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	10/19/12 17:15	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	10/19/12 17:15	TO-15/RS QA230
o-Xylene	U	U	0.5		1	10/19/12 17:15	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Accuracy Limit	Expanded	Analysed	Method/SCDF
<i>Surrogate: Bromofluorobenzene</i>	9.12		91%	80-120	10/19/12	10/19/12 17:15	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



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Region 3 Environmental Science Center
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701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-100612-2	Lab ID: 1210002-19
Sample Matrix: Air	Date Collected: 10/06/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SC#
Benzene	0.7	0.2	0.5	J	1	10/19/12 17:58	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	10/19/12 17:58	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	10/19/12 17:58	TO-15/RS QA230
Bromoform	U	U	0.5		1	10/19/12 17:58	TO-15/RS QA230
Bromomethane	U	U	0.5		1	10/19/12 17:58	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	10/19/12 17:58	TO-15/RS QA230
2-Butanone	2.0	0.7	0.5		1	10/19/12 17:58	TO-15/RS QA230
Carbon disulfide	U	U	0.5	UL	1	10/19/12 17:58	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	10/19/12 17:58	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	10/19/12 17:58	TO-15/RS QA230
Chloroethane	U	U	0.5		1	10/19/12 17:58	TO-15/RS QA230
Chloroform	U	U	0.5		1	10/19/12 17:58	TO-15/RS QA230
Chloromethane	1.2	0.6	0.5		1	10/19/12 17:58	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	10/19/12 17:58	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/19/12 17:58	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/19/12 17:58	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/19/12 17:58	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/19/12 17:58	TO-15/RS QA230
Dichlorodifluoromethane	2.9	0.6	0.5		1	10/19/12 17:58	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	10/19/12 17:58	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	10/19/12 17:58	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	10/19/12 17:58	TO-15/RS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	10/19/12 17:58	TO-15/RS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	10/19/12 17:58	TO-15/RS QA230
1,2-Dichloropropane	U	U	0.5		1	10/19/12 17:58	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/19/12 17:58	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/19/12 17:58	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/19/12 17:58	TO-15/RS QA230
Ethanol	32.4	17.0	0.5	L	1	10/19/12 17:58	TO-15/RS QA230
Ethylbenzene	1.0	0.2	0.5	J	1	10/19/12 17:58	TO-15/RS QA230
Freon 113	U	U	0.5		1	10/19/12 17:58	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	10/19/12 17:58	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/19/12 17:58	TO-15/RS QA230
4-Methyl-2-pentanone	1.0	0.2	0.5	J	1	10/19/12 17:58	TO-15/RS QA230
Methylene Chloride	4.2	1.2	0.5		1	10/19/12 17:58	TO-15/RS QA230
Naphthalene	U	U	0.5		1	10/19/12 17:58	TO-15/RS QA230

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-100612-2	Lab ID: 1210002-19
Sample Matrix: Air	Date Collected: 10/06/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDW
Propylene	U	U	0.5		1	10/19/12 17:58	TO-15/RS QA230
Styrene	1.2	0.3	0.5	J	1	10/19/12 17:58	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/19/12 17:58	TO-15/RS QA230
Tetrachloroethene	2.1	0.3	0.5	J	1	10/19/12 17:58	TO-15/RS QA230
Toluene	13.2	3.5	0.5		1	10/19/12 17:58	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/19/12 17:58	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/19/12 17:58	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/19/12 17:58	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	10/19/12 17:58	TO-15/RS QA230
Trichlorofluoromethane	1.6	0.3	0.5	J	1	10/19/12 17:58	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/19/12 17:58	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/19/12 17:58	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	10/19/12 17:58	TO-15/RS QA230
m,p-Xylene	2.1	0.5	1.0	J	1	10/19/12 17:58	TO-15/RS QA230
o-Xylene	0.7	0.2	0.5	J	1	10/19/12 17:58	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery Limit	Expanded	Analysed	Method/SCDW
Surrogate: Bromofluorobenzene	9.06		91 % 80-120	10/19/12	10/19/12 17:58	TO-15/RS QA230

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-101212-1	Lab ID: 1210009-01
Sample Matrix: Air	Date Collected: 10/12/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Benzene	U	U	0.5		1	10/26/12 15:46	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	10/26/12 15:46	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	10/26/12 15:46	TO-15/RS QA230
Bromoform	U	U	0.5		1	10/26/12 15:46	TO-15/RS QA230
Bromomethane	U	U	0.5		1	10/26/12 15:46	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	10/26/12 15:46	TO-15/RS QA230
2-Butanone	0.5	0.2	0.5	J	1	10/26/12 15:46	TO-15/RS QA230
Carbon disulfide	U	U	0.5		1	10/26/12 15:46	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	10/26/12 15:46	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	10/26/12 15:46	TO-15/RS QA230
Chloroethane	U	U	0.5		1	10/26/12 15:46	TO-15/RS QA230
Chloroform	U	U	0.5		1	10/26/12 15:46	TO-15/RS QA230
Chloromethane	1.3	0.6	0.5		1	10/26/12 15:46	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	10/26/12 15:46	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/26/12 15:46	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/26/12 15:46	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/26/12 15:46	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/26/12 15:46	TO-15/RS QA230
Dichlorodifluoromethane	3.3	0.7	0.5		1	10/26/12 15:46	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	10/26/12 15:46	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	10/26/12 15:46	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	10/26/12 15:46	TO-15/RS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	10/26/12 15:46	TO-15/RS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	10/26/12 15:46	TO-15/RS QA230
1,2-Dichloropropane	U	U	0.5		1	10/26/12 15:46	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/26/12 15:46	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/26/12 15:46	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/26/12 15:46	TO-15/RS QA230
Ethanol	5.4	2.8	0.5		1	10/26/12 15:46	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	10/26/12 15:46	TO-15/RS QA230
Heon 113	U	U	0.5		1	10/26/12 15:46	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	10/26/12 15:46	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/26/12 15:46	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/26/12 15:46	TO-15/RS QA230
Methylene Chloride	0.6	0.2	0.5	J	1	10/26/12 15:46	TO-15/RS QA230
Naphthalene	U	U	0.5		1	10/26/12 15:46	TO-15/RS QA230

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-101212-1	Lab ID: 1210009-01
Sample Matrix: Air	Date Collected: 10/12/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	10/26/12 15:46	TO-15/R3 QA230
Styrene	U	U	0.5		1	10/26/12 15:46	TO-15/R3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/26/12 15:46	TO-15/R3 QA230
Tetrachloroethene	U	U	0.5		1	10/26/12 15:46	TO-15/R3 QA230
Toluene	2.2	0.6	0.5		1	10/26/12 15:46	TO-15/R3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/26/12 15:46	TO-15/R3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/26/12 15:46	TO-15/R3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/26/12 15:46	TO-15/R3 QA230
Trichloroethene	U	U	0.5		1	10/26/12 15:46	TO-15/R3 QA230
Trichlorofluoromethane	1.8	0.3	0.5	J	1	10/26/12 15:46	TO-15/R3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/26/12 15:46	TO-15/R3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/26/12 15:46	TO-15/R3 QA230
Vinyl chloride	U	U	0.5		1	10/26/12 15:46	TO-15/R3 QA230
m,p-Xylene	U	U	1.0		1	10/26/12 15:46	TO-15/R3 QA230
o-Xylene	U	U	0.5		1	10/26/12 15:46	TO-15/R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.22		92%	80-120	10/26/12	10/26/12 15:46	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-101212-2	Lab ID: 1210009-02
Sample Matrix: Air	Date Collected: 10/12/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Benzene	U	U	0.5		1	10/26/12 16:31	TO-15/E3 QA230
Benzyl chloride	U	U	0.5		1	10/26/12 16:31	TO-15/E3 QA230
Bromodichloromethane	U	U	0.5		1	10/26/12 16:31	TO-15/E3 QA230
Bromoform	U	U	0.5		1	10/26/12 16:31	TO-15/E3 QA230
Bromomethane	U	U	0.5		1	10/26/12 16:31	TO-15/E3 QA230
1,3-Butadiene	U	U	0.5		1	10/26/12 16:31	TO-15/E3 QA230
2-Butanone	U	U	0.5		1	10/26/12 16:31	TO-15/E3 QA230
Carbon disulfide	U	U	0.5		1	10/26/12 16:31	TO-15/E3 QA230
Carbon Tetrachloride	1.0	0.2	0.5	J	1	10/26/12 16:31	TO-15/E3 QA230
Chlorobenzene	U	U	0.5		1	10/26/12 16:31	TO-15/E3 QA230
Chloroethane	U	U	0.5		1	10/26/12 16:31	TO-15/E3 QA230
Chloroform	U	U	0.5		1	10/26/12 16:31	TO-15/E3 QA230
Chloromethane	1.6	0.8	0.5		1	10/26/12 16:31	TO-15/E3 QA230
Dibromochloromethane	U	U	0.5		1	10/26/12 16:31	TO-15/E3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/26/12 16:31	TO-15/E3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/26/12 16:31	TO-15/E3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/26/12 16:31	TO-15/E3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/26/12 16:31	TO-15/E3 QA230
Dichlorodifluoromethane	3.8	0.8	0.5		1	10/26/12 16:31	TO-15/E3 QA230
1,1-Dichloroethane	U	U	0.5		1	10/26/12 16:31	TO-15/E3 QA230
1,2-Dichloroethane	U	U	0.5		1	10/26/12 16:31	TO-15/E3 QA230
1,1-Dichloroethene	U	U	0.5		1	10/26/12 16:31	TO-15/E3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	10/26/12 16:31	TO-15/E3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	10/26/12 16:31	TO-15/E3 QA230
1,2-Dichloropropane	U	U	0.5		1	10/26/12 16:31	TO-15/E3 QA230
cis-1,3-Dichloropropane	U	U	0.5		1	10/26/12 16:31	TO-15/E3 QA230
trans-1,3-Dichloropropane	U	U	0.5		1	10/26/12 16:31	TO-15/E3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/26/12 16:31	TO-15/E3 QA230
Ethanol	4.2	2.2	0.5		1	10/26/12 16:31	TO-15/E3 QA230
Ethylbenzene	U	U	0.5		1	10/26/12 16:31	TO-15/E3 QA230
Freon 113	U	U	0.5		1	10/26/12 16:31	TO-15/E3 QA230
Hexachlorobutadiene	U	U	0.5		1	10/26/12 16:31	TO-15/E3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/26/12 16:31	TO-15/E3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/26/12 16:31	TO-15/E3 QA230
Methylene Chloride	0.6	0.2	0.5	J	1	10/26/12 16:31	TO-15/E3 QA230
Naphthalene	U	U	0.5		1	10/26/12 16:31	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-101212-2	Lab ID: 1210009-02
Sample Matrix: Air	Date Collected: 10/12/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM
Propylene	U	U	0.5		1	10/26/12 16 31	TO-15/RS QA230
Styrene	U	U	0.5		1	10/26/12 16 31	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/26/12 16 31	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	10/26/12 16 31	TO-15/RS QA230
Toluene	2.3	0.6	0.5		1	10/26/12 16 31	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/26/12 16 31	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/26/12 16 31	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/26/12 16 31	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	10/26/12 16 31	TO-15/RS QA230
Trichlorofluoromethane	2.1	0.4	0.5	J	1	10/26/12 16 31	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/26/12 16 31	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/26/12 16 31	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	10/26/12 16 31	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	10/26/12 16 31	TO-15/RS QA230
o-Xylene	U	U	0.5		1	10/26/12 16 31	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCM
<i>Surrogate: Bromofluorobenzene</i>	<i>9.62</i>		<i>96%</i>	<i>80-120</i>	<i>10/26/12</i>	<i>10/26/12 16 31</i>	<i>TO-15/RS QA230</i>

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-101212-2C0	Lab ID: 1210009-03
Sample Matrix: Air	Date Collected: 10/12/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM
Benzene	0.9	0.3	0.5	J	1	10/26/12 17:15	TO-15/E3 QA230
Benzyl chloride	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
Bromodichloromethane	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
Bromofom	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
Bromomethane	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
1,3-Butadiene	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
2-Butanone	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
Carbon disulfide	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
Carbon Tetrachloride	1.2	0.2	0.5	J	1	10/26/12 17:15	TO-15/E3 QA230
Chlorobenzene	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
Chloroethane	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
Chloroform	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
Chloroethane	1.7	0.8	0.5		1	10/26/12 17:15	TO-15/E3 QA230
Dibromochloromethane	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
Dichlorodifluoromethane	4.3	0.9	0.5		1	10/26/12 17:15	TO-15/E3 QA230
1,1-Dichloroethane	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
1,2-Dichloroethane	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
1,1-Dichloroethene	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
cis-1,2-Dichloroethane	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
trans-1,2-Dichloroethane	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
1,2-Dichloropropane	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
Ethanol	4.4	2.3	0.5		1	10/26/12 17:15	TO-15/E3 QA230
Ethylbenzene	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
Eron 113	1.3	0.2	0.5	J	1	10/26/12 17:15	TO-15/E3 QA230
Hexachlorobutadiene	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
Methylene Chloride	0.7	0.2	0.5	J	1	10/26/12 17:15	TO-15/E3 QA230
Naphthalene	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-101212-2C0	Lab ID: 1210009-03
Sample Matrix: Air	Date Collected: 10/12/2012

Volatile Organic Compounds
Targets (Continued)

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SC#
Propylene	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
Styrene	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
Tetrachloroethene	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
Toluene	1.5	0.4	0.5	J	1	10/26/12 17:15	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
Trichloroethene	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
Trichlorofluoromethane	2.5	0.4	0.5	J	1	10/26/12 17:15	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	10/26/12 17:15	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	10/26/12 17:15	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SC#
<i>Surrogate: Bromofluorobenzene</i>	9.77		96%	80-120	10/26/12	10/26/12 17:15	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI)Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-101212-3	Lab ID: 1210009-04
Sample Matrix: Air	Date Collected: 10/12/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Benzene	0.5	0.2	0.5	J	1	10/06/12 17:58	TO-15/E3 QA230
Benzyl chloride	U	U	0.5		1	10/06/12 17:58	TO-15/E3 QA230
Bromodichloromethane	U	U	0.5		1	10/06/12 17:58	TO-15/E3 QA230
Bromoforn	U	U	0.5		1	10/06/12 17:58	TO-15/E3 QA230
Bromomethane	U	U	0.5		1	10/06/12 17:58	TO-15/E3 QA230
1,3-Butadiene	U	U	0.5		1	10/06/12 17:58	TO-15/E3 QA230
2-Butanone	U	U	0.5		1	10/06/12 17:58	TO-15/E3 QA230
Carbon disulfide	U	U	0.5		1	10/06/12 17:58	TO-15/E3 QA230
Carbon Tetrachloride	U	U	0.5		1	10/06/12 17:58	TO-15/E3 QA230
Chlorobenzene	U	U	0.5		1	10/06/12 17:58	TO-15/E3 QA230
Chloroethane	U	U	0.5		1	10/06/12 17:58	TO-15/E3 QA230
Chloroform	U	U	0.5		1	10/06/12 17:58	TO-15/E3 QA230
Chloromethane	1.2	0.6	0.5		1	10/06/12 17:58	TO-15/E3 QA230
Dibromochloromethane	U	U	0.5		1	10/06/12 17:58	TO-15/E3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/06/12 17:58	TO-15/E3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/06/12 17:58	TO-15/E3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/06/12 17:58	TO-15/E3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/06/12 17:58	TO-15/E3 QA230
Dichlorodifluoromethane	3.3	0.7	0.5		1	10/06/12 17:58	TO-15/E3 QA230
1,1-Dichloroethane	U	U	0.5		1	10/06/12 17:58	TO-15/E3 QA230
1,2-Dichloroethane	U	U	0.5		1	10/06/12 17:58	TO-15/E3 QA230
1,1-Dichloroethene	U	U	0.5		1	10/06/12 17:58	TO-15/E3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	10/06/12 17:58	TO-15/E3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	10/06/12 17:58	TO-15/E3 QA230
1,2-Dichloropropane	U	U	0.5		1	10/06/12 17:58	TO-15/E3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/06/12 17:58	TO-15/E3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/06/12 17:58	TO-15/E3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/06/12 17:58	TO-15/E3 QA230
Ethanol	4.0	2.1	0.5		1	10/06/12 17:58	TO-15/E3 QA230
Ethylbenzene	U	U	0.5		1	10/06/12 17:58	TO-15/E3 QA230
Freon 113	U	U	0.5		1	10/06/12 17:58	TO-15/E3 QA230
Hexachlorobutadiene	U	U	0.5		1	10/06/12 17:58	TO-15/E3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/06/12 17:58	TO-15/E3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/06/12 17:58	TO-15/E3 QA230
Methylene Chloride	0.6	0.2	0.5	J	1	10/06/12 17:58	TO-15/E3 QA230
Naphthalene	U	U	0.5		1	10/06/12 17:58	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5390



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-101212-3	Lab ID: 1210009-04
Sample Matrix: Air	Date Collected: 10/12/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	10/06/12 17:58	TO-15/F3 QA230
Styrene	U	U	0.5		1	10/06/12 17:58	TO-15/F3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/06/12 17:58	TO-15/F3 QA230
Tetrachloroethene	U	U	0.5		1	10/06/12 17:58	TO-15/F3 QA230
Toluene	1.2	0.3	0.5	J	1	10/06/12 17:58	TO-15/F3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/06/12 17:58	TO-15/F3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/06/12 17:58	TO-15/F3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/06/12 17:58	TO-15/F3 QA230
Trichloroethene	U	U	0.5		1	10/06/12 17:58	TO-15/F3 QA230
Trichlorofluoromethane	1.9	0.3	0.5	J	1	10/06/12 17:58	TO-15/F3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/06/12 17:58	TO-15/F3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/06/12 17:58	TO-15/F3 QA230
Vinyl chloride	U	U	0.5		1	10/06/12 17:58	TO-15/F3 QA230
m,p-Xylene	U	U	1.0		1	10/06/12 17:58	TO-15/F3 QA230
o-Xylene	U	U	0.5		1	10/06/12 17:58	TO-15/F3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.18		92%	80-120	10/06/12	10/06/12 17:58	TO-15/F3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-101212	Lab ID: 1210009-05
Sample Matrix: Air	Date Collected: 10/12/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDW
Benzene	0.6	0.2	0.5	J	1	10/26/12 18:40	TO-15/R3 QA230
Benzyl chloride	U	U	0.5		1	10/26/12 18:40	TO-15/R3 QA230
Bromodichloromethane	U	U	0.5		1	10/26/12 18:40	TO-15/R3 QA230
Bromoform	U	U	0.5		1	10/26/12 18:40	TO-15/R3 QA230
Bromoethane	U	U	0.5		1	10/26/12 18:40	TO-15/R3 QA230
1,3-Butadiene	U	U	0.5		1	10/26/12 18:40	TO-15/R3 QA230
2-Butanone	U	U	0.5		1	10/26/12 18:40	TO-15/R3 QA230
Carbon disulfide	U	U	0.5		1	10/26/12 18:40	TO-15/R3 QA230
Carbon Tetrachloride	U	U	0.5		1	10/26/12 18:40	TO-15/R3 QA230
Chlorobenzene	U	U	0.5		1	10/26/12 18:40	TO-15/R3 QA230
Chloroethane	U	U	0.5		1	10/26/12 18:40	TO-15/R3 QA230
Chloroform	U	U	0.5		1	10/26/12 18:40	TO-15/R3 QA230
Chloromethane	1.2	0.6	0.5		1	10/26/12 18:40	TO-15/R3 QA230
Dibromochloromethane	U	U	0.5		1	10/26/12 18:40	TO-15/R3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/26/12 18:40	TO-15/R3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/26/12 18:40	TO-15/R3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/26/12 18:40	TO-15/R3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/26/12 18:40	TO-15/R3 QA230
Dichlorodifluoromethane	3.4	0.7	0.5		1	10/26/12 18:40	TO-15/R3 QA230
1,1-Dichloroethane	U	U	0.5		1	10/26/12 18:40	TO-15/R3 QA230
1,2-Dichloroethane	U	U	0.5		1	10/26/12 18:40	TO-15/R3 QA230
1,1-Dichloroethene	U	U	0.5		1	10/26/12 18:40	TO-15/R3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	10/26/12 18:40	TO-15/R3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	10/26/12 18:40	TO-15/R3 QA230
1,2-Dichloropropene	U	U	0.5		1	10/26/12 18:40	TO-15/R3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/26/12 18:40	TO-15/R3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/26/12 18:40	TO-15/R3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/26/12 18:40	TO-15/R3 QA230
Ethanol	5.5	2.9	0.5		1	10/26/12 18:40	TO-15/R3 QA230
Ethylbenzene	U	U	0.5		1	10/26/12 18:40	TO-15/R3 QA230
Freon 113	U	U	0.5		1	10/26/12 18:40	TO-15/R3 QA230
Hexachlorobutadiene	U	U	0.5		1	10/26/12 18:40	TO-15/R3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/26/12 18:40	TO-15/R3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/26/12 18:40	TO-15/R3 QA230
Methylene Chloride	0.6	0.2	0.5	J	1	10/26/12 18:40	TO-15/R3 QA230
Naphthalene	U	U	0.5		1	10/26/12 18:40	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-101212	Lab ID: 1210009-05
Sample Matrix: Air	Date Collected: 10/12/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	10/26/12 18:40	TO-15/RS QA230
Styrene	U	U	0.5		1	10/26/12 18:40	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/26/12 18:40	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	10/26/12 18:40	TO-15/RS QA230
Toluene	13	03	0.5	J	1	10/26/12 18:40	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/26/12 18:40	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/26/12 18:40	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/26/12 18:40	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	10/26/12 18:40	TO-15/RS QA230
Trichlorofluoromethane	19	03	0.5	J	1	10/26/12 18:40	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/26/12 18:40	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/26/12 18:40	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	10/26/12 18:40	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	10/26/12 18:40	TO-15/RS QA230
o-Xylene	U	U	0.5		1	10/26/12 18:40	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery %Recovery	Limit	Expanded	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.38		96%	80-120	10/26/12	10/26/12 18:40	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-100912-1	Lab ID: 1210009-06
Sample Matrix: Air	Date Collected: 10/09/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Benzene	0.8	0.2	0.5	J	1	10/06/12 19:24	TO-15/ES QA230
Benzyl chloride	U	U	0.5		1	10/06/12 19:24	TO-15/ES QA230
Bromodichloromethane	U	U	0.5		1	10/06/12 19:24	TO-15/ES QA230
Bromofom	U	U	0.5		1	10/06/12 19:24	TO-15/ES QA230
Bromomethane	U	U	0.5		1	10/06/12 19:24	TO-15/ES QA230
1,3-Butadiene	U	U	0.5		1	10/06/12 19:24	TO-15/ES QA230
2-Butanone	0.5	0.2	0.5	J	1	10/06/12 19:24	TO-15/ES QA230
Carbon disulfide	U	U	0.5		1	10/06/12 19:24	TO-15/ES QA230
Carbon Tetrachloride	U	U	0.5		1	10/06/12 19:24	TO-15/ES QA230
Chlorobenzene	U	U	0.5		1	10/06/12 19:24	TO-15/ES QA230
Chloroethane	U	U	0.5		1	10/06/12 19:24	TO-15/ES QA230
Chloroform	U	U	0.5		1	10/06/12 19:24	TO-15/ES QA230
Chloromethane	1.4	0.7	0.5		1	10/06/12 19:24	TO-15/ES QA230
Dibromochloromethane	U	U	0.5		1	10/06/12 19:24	TO-15/ES QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/06/12 19:24	TO-15/ES QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/06/12 19:24	TO-15/ES QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/06/12 19:24	TO-15/ES QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/06/12 19:24	TO-15/ES QA230
Dichlorodifluoromethane	3.5	0.7	0.5		1	10/06/12 19:24	TO-15/ES QA230
1,1-Dichloroethane	U	U	0.5		1	10/06/12 19:24	TO-15/ES QA230
1,2-Dichloroethane	U	U	0.5		1	10/06/12 19:24	TO-15/ES QA230
1,1-Dichloroethene	U	U	0.5		1	10/06/12 19:24	TO-15/ES QA230
cis-1,2-Dichloroethene	U	U	0.5		1	10/06/12 19:24	TO-15/ES QA230
trans-1,2-Dichloroethene	U	U	0.5		1	10/06/12 19:24	TO-15/ES QA230
1,2-Dichloropropene	U	U	0.5		1	10/06/12 19:24	TO-15/ES QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/06/12 19:24	TO-15/ES QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/06/12 19:24	TO-15/ES QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/06/12 19:24	TO-15/ES QA230
Ethanol	4.7	2.5	0.5		1	10/06/12 19:24	TO-15/ES QA230
Ethylbenzene	U	U	0.5		1	10/06/12 19:24	TO-15/ES QA230
Freon 113	U	U	0.5		1	10/06/12 19:24	TO-15/ES QA230
Hexachlorobutadiene	U	U	0.5		1	10/06/12 19:24	TO-15/ES QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/06/12 19:24	TO-15/ES QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/06/12 19:24	TO-15/ES QA230
Methylene Chloride	0.6	0.2	0.5	J	1	10/06/12 19:24	TO-15/ES QA230
Naphthalene	U	U	0.5		1	10/06/12 19:24	TO-15/ES QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5350



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-100912-1	Lab ID: 1210009-06
Sample Matrix: Air	Date Collected: 10/09/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF#
Propylene	U	U	0.5		1	10/06/12 19:24	TO-15/E3 QA230
Styrene	U	U	0.5		1	10/06/12 19:24	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/06/12 19:24	TO-15/E3 QA230
Tetrachloroethene	U	U	0.5		1	10/06/12 19:24	TO-15/E3 QA230
Toluene	1.7	0.4	0.5	J	1	10/06/12 19:24	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/06/12 19:24	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/06/12 19:24	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/06/12 19:24	TO-15/E3 QA230
Trichloroethene	U	U	0.5		1	10/06/12 19:24	TO-15/E3 QA230
Trichlorofluoromethane	2.0	0.4	0.5	J	1	10/06/12 19:24	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/06/12 19:24	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/06/12 19:24	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	10/06/12 19:24	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	10/06/12 19:24	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	10/06/12 19:24	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery Limit	Expanded	Analysed	Method/SCDF#
<i>Surrogate: Bromofluorobenzene</i>	9.45		94%	80-120	10/06/12	10/06/12 19:24 TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-100912-3	Lab ID: 1210009-07
Sample Matrix: Air	Date Collected: 10/09/2012

Volatile Organic Compounds
 Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/SCM#
Benzene	0.9	0.3	0.5	J	1	10/06/12 20:07	TO-15/ES QA230
Benzyl chloride	U	U	0.5		1	10/06/12 20:07	TO-15/ES QA230
Bromodichloromethane	U	U	0.5		1	10/06/12 20:07	TO-15/ES QA230
Bromoform	U	U	0.5		1	10/06/12 20:07	TO-15/ES QA230
Bromomethane	U	U	0.5		1	10/06/12 20:07	TO-15/ES QA230
1,3-Butadiene	U	U	0.5		1	10/06/12 20:07	TO-15/ES QA230
2-Butanone	0.6	0.2	0.5	J	1	10/06/12 20:07	TO-15/ES QA230
Carbon disulfide	U	U	0.5		1	10/06/12 20:07	TO-15/ES QA230
Carbon Tetrachloride	1.0	0.2	0.5	J	1	10/06/12 20:07	TO-15/ES QA230
Chlorobenzene	U	U	0.5		1	10/06/12 20:07	TO-15/ES QA230
Chloroethane	U	U	0.5		1	10/06/12 20:07	TO-15/ES QA230
Chloroform	U	U	0.5		1	10/06/12 20:07	TO-15/ES QA230
Chloromethane	1.8	0.9	0.5		1	10/06/12 20:07	TO-15/ES QA230
Dibromochloromethane	U	U	0.5		1	10/06/12 20:07	TO-15/ES QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/06/12 20:07	TO-15/ES QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/06/12 20:07	TO-15/ES QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/06/12 20:07	TO-15/ES QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/06/12 20:07	TO-15/ES QA230
Dichlorodifluoromethane	3.6	0.7	0.5		1	10/06/12 20:07	TO-15/ES QA230
1,1-Dichloroethane	U	U	0.5		1	10/06/12 20:07	TO-15/ES QA230
1,2-Dichloroethane	U	U	0.5		1	10/06/12 20:07	TO-15/ES QA230
1,1-Dichloroethene	U	U	0.5		1	10/06/12 20:07	TO-15/ES QA230
cis-1,2-Dichloroethene	U	U	0.5		1	10/06/12 20:07	TO-15/ES QA230
trans-1,2-Dichloroethene	U	U	0.5		1	10/06/12 20:07	TO-15/ES QA230
1,2-Dichloropropane	U	U	0.5		1	10/06/12 20:07	TO-15/ES QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/06/12 20:07	TO-15/ES QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/06/12 20:07	TO-15/ES QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/06/12 20:07	TO-15/ES QA230
Ethanol	3.8	2.0	0.5		1	10/06/12 20:07	TO-15/ES QA230
Ethylbenzene	U	U	0.5		1	10/06/12 20:07	TO-15/ES QA230
Freon 113	U	U	0.5		1	10/06/12 20:07	TO-15/ES QA230
Hexachlorobutadiene	U	U	0.5		1	10/06/12 20:07	TO-15/ES QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/06/12 20:07	TO-15/ES QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/06/12 20:07	TO-15/ES QA230
Methylene Chloride	0.6	0.2	0.5	J	1	10/06/12 20:07	TO-15/ES QA230
Naphthalene	U	U	0.5		1	10/06/12 20:07	TO-15/ES QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-100912-3	Lab ID: 1210009-07
Sample Matrix: Air	Date Collected: 10/09/2012

**Volatile Organic Compounds
Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF
Propylene	U	U	0.5		1	10/06/12 20:07	TO-15/R3 QA230
Styrene	U	U	0.5		1	10/06/12 20:07	TO-15/R3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/06/12 20:07	TO-15/R3 QA230
Tetrachloroethene	U	U	0.5		1	10/06/12 20:07	TO-15/R3 QA230
Toluene	1.7	0.5	0.5		1	10/06/12 20:07	TO-15/R3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/06/12 20:07	TO-15/R3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/06/12 20:07	TO-15/R3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/06/12 20:07	TO-15/R3 QA230
Trichloroethene	U	U	0.5		1	10/06/12 20:07	TO-15/R3 QA230
Trichlorofluoromethane	2.0	0.4	0.5	J	1	10/06/12 20:07	TO-15/R3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/06/12 20:07	TO-15/R3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/06/12 20:07	TO-15/R3 QA230
Vinyl chloride	U	U	0.5		1	10/06/12 20:07	TO-15/R3 QA230
m,p-Xylene	U	U	1.0		1	10/06/12 20:07	TO-15/R3 QA230
o-Xylene	U	U	0.5		1	10/06/12 20:07	TO-15/R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery %Recovery	%Recovery Limits	Expanded	Analysed	Method/SCDF
<i>Surrogate: Bromofluorobenzene</i>	9.35		94%	80-120	10/26/12	10/06/12 20:07	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-101512-1	Lab ID: 1210009-08
Sample Matrix: Air	Date Collected: 10/15/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/RCM
Benzene	0.6	0.2	0.5	J	1	10/26/12 20:50	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	10/26/12 20:50	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	10/26/12 20:50	TO-15/RS QA230
Bromoform	U	U	0.5		1	10/26/12 20:50	TO-15/RS QA230
Bromoethane	U	U	0.5		1	10/26/12 20:50	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	10/26/12 20:50	TO-15/RS QA230
2-Butanone	0.7	0.2	0.5	J	1	10/26/12 20:50	TO-15/RS QA230
Carbonyl sulfide	U	U	0.5		1	10/26/12 20:50	TO-15/RS QA230
Carbon Tetrachloride	1.0	0.2	0.5	J	1	10/26/12 20:50	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	10/26/12 20:50	TO-15/RS QA230
Chloroethane	U	U	0.5		1	10/26/12 20:50	TO-15/RS QA230
Chloroform	U	U	0.5		1	10/26/12 20:50	TO-15/RS QA230
Chloromethane	1.6	0.8	0.5		1	10/26/12 20:50	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	10/26/12 20:50	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/26/12 20:50	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/26/12 20:50	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/26/12 20:50	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/26/12 20:50	TO-15/RS QA230
Dichlorodifluoromethane	3.6	0.7	0.5		1	10/26/12 20:50	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	10/26/12 20:50	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	10/26/12 20:50	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	10/26/12 20:50	TO-15/RS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	10/26/12 20:50	TO-15/RS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	10/26/12 20:50	TO-15/RS QA230
1,2-Dichloropropane	U	U	0.5		1	10/26/12 20:50	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/26/12 20:50	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/26/12 20:50	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/26/12 20:50	TO-15/RS QA230
Ethanol	10.6	5.6	0.5		1	10/26/12 20:50	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	10/26/12 20:50	TO-15/RS QA230
Freon 113	U	U	0.5		1	10/26/12 20:50	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	10/26/12 20:50	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/26/12 20:50	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/26/12 20:50	TO-15/RS QA230
Methylene Chloride	0.6	0.2	0.5	J	1	10/26/12 20:50	TO-15/RS QA230
Naphthalene	U	U	0.5		1	10/26/12 20:50	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-101512-1	Lab ID: 1210009-08
Sample Matrix: Air	Date Collected: 10/15/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analyzed	Method/SCM#
Propylene	U	U	0.5		1	10/06/12 20:50	TO-15/E3 QA230
Styrene	U	U	0.5		1	10/06/12 20:50	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/06/12 20:50	TO-15/E3 QA230
Tetrachloroethene	U	U	0.5		1	10/06/12 20:50	TO-15/E3 QA230
Toluene	5.4	1.4	0.5		1	10/06/12 20:50	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/06/12 20:50	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/06/12 20:50	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/06/12 20:50	TO-15/E3 QA230
Trichloroethene	U	U	0.5		1	10/06/12 20:50	TO-15/E3 QA230
Trichlorofluoromethane	2.1	0.4	0.5	J	1	10/06/12 20:50	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/06/12 20:50	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/06/12 20:50	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	10/06/12 20:50	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	10/06/12 20:50	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	10/06/12 20:50	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analyzed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.67		97%	80-120	10/24/12	10/06/12 20:50	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-101512-2	Lab ID: 1210009-09
Sample Matrix: Air	Date Collected: 10/15/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF
Benzene	0.6	0.2	0.5	J	1	10/26/12 2134	TO-15/R3 Q4230
Benzyl chloride	U	U	0.5		1	10/26/12 2134	TO-15/R3 Q4230
Bromodichloromethane	U	U	0.5		1	10/26/12 2134	TO-15/R3 Q4230
Bromofom	U	U	0.5		1	10/26/12 2134	TO-15/R3 Q4230
Bromomethane	U	U	0.5		1	10/26/12 2134	TO-15/R3 Q4230
1,3-Butadiene	U	U	0.5		1	10/26/12 2134	TO-15/R3 Q4230
2-Butanone	0.6	0.2	0.5	J	1	10/26/12 2134	TO-15/R3 Q4230
Carbon disulfide	U	U	0.5		1	10/26/12 2134	TO-15/R3 Q4230
Carbon Tetrachloride	U	U	0.5		1	10/26/12 2134	TO-15/R3 Q4230
Chlorobenzene	U	U	0.5		1	10/26/12 2134	TO-15/R3 Q4230
Chloroethane	U	U	0.5		1	10/26/12 2134	TO-15/R3 Q4230
Chloroform	U	U	0.5		1	10/26/12 2134	TO-15/R3 Q4230
Chloromethane	1.4	0.6	0.5		1	10/26/12 2134	TO-15/R3 Q4230
Dibromochloromethane	U	U	0.5		1	10/26/12 2134	TO-15/R3 Q4230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/26/12 2134	TO-15/R3 Q4230
1,2-Dichlorobenzene	U	U	0.5		1	10/26/12 2134	TO-15/R3 Q4230
1,3-Dichlorobenzene	U	U	0.5		1	10/26/12 2134	TO-15/R3 Q4230
1,4-Dichlorobenzene	U	U	0.5		1	10/26/12 2134	TO-15/R3 Q4230
Dichlorodifluoromethane	3.4	0.7	0.5		1	10/26/12 2134	TO-15/R3 Q4230
1,1-Dichloroethane	U	U	0.5		1	10/26/12 2134	TO-15/R3 Q4230
1,2-Dichloroethane	U	U	0.5		1	10/26/12 2134	TO-15/R3 Q4230
1,1-Dichloroethene	U	U	0.5		1	10/26/12 2134	TO-15/R3 Q4230
cis-1,2-Dichloroethene	U	U	0.5		1	10/26/12 2134	TO-15/R3 Q4230
trans-1,2-Dichloroethene	U	U	0.5		1	10/26/12 2134	TO-15/R3 Q4230
1,2-Dichloropropane	U	U	0.5		1	10/26/12 2134	TO-15/R3 Q4230
cis-1,3-Dichloropropene	U	U	0.5		1	10/26/12 2134	TO-15/R3 Q4230
trans-1,3-Dichloropropene	U	U	0.5		1	10/26/12 2134	TO-15/R3 Q4230
Dichlorotetrafluoroethane	U	U	0.5		1	10/26/12 2134	TO-15/R3 Q4230
Ethanol	5.2	2.7	0.5		1	10/26/12 2134	TO-15/R3 Q4230
Ethylbenzene	U	U	0.5		1	10/26/12 2134	TO-15/R3 Q4230
Heon 113	U	U	0.5		1	10/26/12 2134	TO-15/R3 Q4230
Hexachlorobutadiene	U	U	0.5		1	10/26/12 2134	TO-15/R3 Q4230
Methyl tert-Butyl Ether	U	U	0.5		1	10/26/12 2134	TO-15/R3 Q4230
4-Methyl-2-pentanone	U	U	0.5		1	10/26/12 2134	TO-15/R3 Q4230
Methylene Chloride	0.6	0.2	0.5	J	1	10/26/12 2134	TO-15/R3 Q4230
Naphthalene	U	U	0.5		1	10/26/12 2134	TO-15/R3 Q4230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-101512-2	Lab ID: 1210009-09
Sample Matrix: Air	Date Collected: 10/15/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/CEM
Propylene	U	U	0.5		1	10/26/12 21.34	TO-15/RS QA230
Styrene	U	U	0.5		1	10/26/12 21.34	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/26/12 21.34	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	10/26/12 21.34	TO-15/RS QA230
Toluene	1.9	0.5	0.5		1	10/26/12 21.34	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/26/12 21.34	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/26/12 21.34	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/26/12 21.34	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	10/26/12 21.34	TO-15/RS QA230
Trichlorofluoromethane	2.0	0.4	0.5	J	1	10/26/12 21.34	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/26/12 21.34	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/26/12 21.34	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	10/26/12 21.34	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	10/26/12 21.34	TO-15/RS QA230
o-Xylene	U	U	0.5		1	10/26/12 21.34	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/CEM
<i>Surrogate: Bromofluorobenzene</i>	9.58		96%	80-120	10/26/12	10/26/12 21.34	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5350



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-101512-2C0	Lab ID: 1210009-10
Sample Matrix: Air	Date Collected: 10/15/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/DOE#
Benzene	0.7	0.2	0.5	J	1	10/26/12 22:16	TO-15/RS Q4230
Benzyl chloride	U	U	0.5		1	10/26/12 22:16	TO-15/RS Q4230
Bromodichloromethane	U	U	0.5		1	10/26/12 22:16	TO-15/RS Q4230
Bromoform	U	U	0.5		1	10/26/12 22:16	TO-15/RS Q4230
Bromoethane	U	U	0.5		1	10/26/12 22:16	TO-15/RS Q4230
1,3-Butadiene	U	U	0.5		1	10/26/12 22:16	TO-15/RS Q4230
2-Butanone	0.6	0.2	0.5	J	1	10/26/12 22:16	TO-15/RS Q4230
Carbon disulfide	U	U	0.5		1	10/26/12 22:16	TO-15/RS Q4230
Carbon Tetrachloride	1.0	0.2	0.5	J	1	10/26/12 22:16	TO-15/RS Q4230
Chlorobenzene	U	U	0.5		1	10/26/12 22:16	TO-15/RS Q4230
Chloroethane	U	U	0.5		1	10/26/12 22:16	TO-15/RS Q4230
Chloroform	U	U	0.5		1	10/26/12 22:16	TO-15/RS Q4230
Chloromethane	1.4	0.7	0.5		1	10/26/12 22:16	TO-15/RS Q4230
Dibromochloromethane	U	U	0.5		1	10/26/12 22:16	TO-15/RS Q4230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/26/12 22:16	TO-15/RS Q4230
1,2-Dichlorobenzene	U	U	0.5		1	10/26/12 22:16	TO-15/RS Q4230
1,3-Dichlorobenzene	U	U	0.5		1	10/26/12 22:16	TO-15/RS Q4230
1,4-Dichlorobenzene	U	U	0.5		1	10/26/12 22:16	TO-15/RS Q4230
Dichlorodifluoromethane	3.6	0.7	0.5		1	10/26/12 22:16	TO-15/RS Q4230
1,1-Dichloroethane	U	U	0.5		1	10/26/12 22:16	TO-15/RS Q4230
1,2-Dichloroethane	U	U	0.5		1	10/26/12 22:16	TO-15/RS Q4230
1,1-Dichloroethene	U	U	0.5		1	10/26/12 22:16	TO-15/RS Q4230
cis-1,2-Dichloroethene	U	U	0.5		1	10/26/12 22:16	TO-15/RS Q4230
trans-1,2-Dichloroethene	U	U	0.5		1	10/26/12 22:16	TO-15/RS Q4230
1,2-Dichloropropane	U	U	0.5		1	10/26/12 22:16	TO-15/RS Q4230
cis-1,3-Dichloropropene	U	U	0.5		1	10/26/12 22:16	TO-15/RS Q4230
trans-1,3-Dichloropropene	U	U	0.5		1	10/26/12 22:16	TO-15/RS Q4230
Dichlorotetrafluoroethane	U	U	0.5		1	10/26/12 22:16	TO-15/RS Q4230
Ethanol	8.0	4.2	0.5		1	10/26/12 22:16	TO-15/RS Q4230
Ethylbenzene	U	U	0.5		1	10/26/12 22:16	TO-15/RS Q4230
Freon 113	U	U	0.5		1	10/26/12 22:16	TO-15/RS Q4230
Hexachlorobutadiene	U	U	0.5		1	10/26/12 22:16	TO-15/RS Q4230
Methyl tert-Butyl Ether	U	U	0.5		1	10/26/12 22:16	TO-15/RS Q4230
4-Methyl-2-pentanone	U	U	0.5		1	10/26/12 22:16	TO-15/RS Q4230
Methylene Chloride	0.6	0.2	0.5	J	1	10/26/12 22:16	TO-15/RS Q4230
Naphthalene	U	U	0.5		1	10/26/12 22:16	TO-15/RS Q4230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-101512-2C0	Lab ID: 1210009-10
Sample Matrix: Air	Date Collected: 10/15/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF#
Propylene	U	U	0.5		1	10/06/12 22:16	TO-15/E3 QA230
Styrene	U	U	0.5		1	10/06/12 22:16	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/06/12 22:16	TO-15/E3 QA230
Tetrachloroethene	U	U	0.5		1	10/06/12 22:16	TO-15/E3 QA230
Toluene	6.3	1.6	0.5		1	10/06/12 22:16	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/06/12 22:16	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/06/12 22:16	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/06/12 22:16	TO-15/E3 QA230
Trichloroethene	U	U	0.5		1	10/06/12 22:16	TO-15/E3 QA230
Trichlorofluoromethane	2.0	0.4	0.5	J	1	10/06/12 22:16	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/06/12 22:16	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/06/12 22:16	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	10/06/12 22:16	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	10/06/12 22:16	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	10/06/12 22:16	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCDF#
Surrogate: Bromofluorobenzene	9.60		96%	80-120	10/24/12	10/06/12 22:16	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
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 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-101512-3	Lab ID: 1210009-11
Sample Matrix: Air	Date Collected: 10/15/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCOW
Benzene	U	U	0.5		1	10/31/12 16:05	TO-15/E3 QA230
Benzyl chloride	U	U	0.5		1	10/31/12 16:05	TO-15/E3 QA230
Bromodichloromethane	U	U	0.5		1	10/31/12 16:05	TO-15/E3 QA230
Bromoform	U	U	0.5		1	10/31/12 16:05	TO-15/E3 QA230
Bromoethane	U	U	0.5		1	10/31/12 16:05	TO-15/E3 QA230
1,3-Butadiene	U	U	0.5		1	10/31/12 16:05	TO-15/E3 QA230
2-Butanone	0.5	0.2	0.5	J	1	10/31/12 16:05	TO-15/E3 QA230
Carbon disulfide	0.5	0.2	0.5	J	1	10/31/12 16:05	TO-15/E3 QA230
Carbon Tetrachloride	U	U	0.5		1	10/31/12 16:05	TO-15/E3 QA230
Chlorobenzene	U	U	0.5		1	10/31/12 16:05	TO-15/E3 QA230
Chloroethane	U	U	0.5		1	10/31/12 16:05	TO-15/E3 QA230
Chloroform	U	U	0.5		1	10/31/12 16:05	TO-15/E3 QA230
Chloromethane	1.3	0.6	0.5		1	10/31/12 16:05	TO-15/E3 QA230
Dibromochloromethane	U	U	0.5		1	10/31/12 16:05	TO-15/E3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/31/12 16:05	TO-15/E3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/31/12 16:05	TO-15/E3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/31/12 16:05	TO-15/E3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/31/12 16:05	TO-15/E3 QA230
Dichlorodifluoromethane	3.1	0.6	0.5		1	10/31/12 16:05	TO-15/E3 QA230
1,1-Dichloroethane	U	U	0.5		1	10/31/12 16:05	TO-15/E3 QA230
1,2-Dichloroethane	U	U	0.5		1	10/31/12 16:05	TO-15/E3 QA230
1,1-Dichloroethene	U	U	0.5		1	10/31/12 16:05	TO-15/E3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	10/31/12 16:05	TO-15/E3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	10/31/12 16:05	TO-15/E3 QA230
1,2-Dichloropropane	U	U	0.5		1	10/31/12 16:05	TO-15/E3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/31/12 16:05	TO-15/E3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/31/12 16:05	TO-15/E3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/31/12 16:05	TO-15/E3 QA230
Ethanol	7.0	3.7	0.5		1	10/31/12 16:05	TO-15/E3 QA230
Ethylbenzene	U	U	0.5		1	10/31/12 16:05	TO-15/E3 QA230
Freon 113	U	U	0.5		1	10/31/12 16:05	TO-15/E3 QA230
Hexachlorobutadiene	U	U	0.5		1	10/31/12 16:05	TO-15/E3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/31/12 16:05	TO-15/E3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/31/12 16:05	TO-15/E3 QA230
Methylene Chloride	U	U	0.5		1	10/31/12 16:05	TO-15/E3 QA230
Naphthalene	U	U	0.5		1	10/31/12 16:05	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-101512-3	Lab ID: 1210009-11
Sample Matrix: Air	Date Collected: 10/15/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	10/31/12 16:05	TO-15/RS QA230
Styrene	U	U	0.5		1	10/31/12 16:05	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/31/12 16:05	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	10/31/12 16:05	TO-15/RS QA230
Toluene	5.1	13	0.5		1	10/31/12 16:05	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/31/12 16:05	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/31/12 16:05	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/31/12 16:05	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	10/31/12 16:05	TO-15/RS QA230
Trichlorofluoromethane	1.8	0.3	0.5	J	1	10/31/12 16:05	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/31/12 16:05	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/31/12 16:05	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	10/31/12 16:05	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	10/31/12 16:05	TO-15/RS QA230
o-Xylene	U	U	0.5		1	10/31/12 16:05	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.31		93%	80-120	10/26/12	10/31/12 16:05	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-101512	Lab ID: 1210009-12
Sample Matrix: Air	Date Collected: 10/15/2012

Volatile Organic Compounds
 Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM
Benzene	0.5	0.2	0.5	J	1	10/31/12 16:49	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	10/31/12 16:49	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	10/31/12 16:49	TO-15/RS QA230
Bromofom	U	U	0.5		1	10/31/12 16:49	TO-15/RS QA230
Bromomethane	U	U	0.5		1	10/31/12 16:49	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	10/31/12 16:49	TO-15/RS QA230
2-Butanone	0.6	0.2	0.5	J	1	10/31/12 16:49	TO-15/RS QA230
Carbon disulfide	U	U	0.5		1	10/31/12 16:49	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	10/31/12 16:49	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	10/31/12 16:49	TO-15/RS QA230
Chloroethane	U	U	0.5		1	10/31/12 16:49	TO-15/RS QA230
Chlorofom	U	U	0.5		1	10/31/12 16:49	TO-15/RS QA230
Chloromethane	1.6	0.8	0.5		1	10/31/12 16:49	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	10/31/12 16:49	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/31/12 16:49	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/31/12 16:49	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/31/12 16:49	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/31/12 16:49	TO-15/RS QA230
Dichlorodifluoromethane	3.7	0.7	0.5		1	10/31/12 16:49	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	10/31/12 16:49	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	10/31/12 16:49	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	10/31/12 16:49	TO-15/RS QA230
cis-1,2-Dichloroethane	U	U	0.5		1	10/31/12 16:49	TO-15/RS QA230
trans-1,2-Dichloroethane	U	U	0.5		1	10/31/12 16:49	TO-15/RS QA230
1,2-Dichloropropane	U	U	0.5		1	10/31/12 16:49	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/31/12 16:49	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/31/12 16:49	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/31/12 16:49	TO-15/RS QA230
Ethanol	7.3	3.9	0.5		1	10/31/12 16:49	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	10/31/12 16:49	TO-15/RS QA230
Freon 113	U	U	0.5		1	10/31/12 16:49	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	10/31/12 16:49	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/31/12 16:49	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/31/12 16:49	TO-15/RS QA230
Methylene Chloride	U	U	0.5		1	10/31/12 16:49	TO-15/RS QA230
Naphthalene	U	U	0.5		1	10/31/12 16:49	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-101512	Lab ID: 1210009-12
Sample Matrix: Air	Date Collected: 10/15/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	10/31/12 16:49	TO-15/E3 QA230
Styrene	U	U	0.5		1	10/31/12 16:49	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/31/12 16:49	TO-15/E3 QA230
Tetrachloroethene	U	U	0.5		1	10/31/12 16:49	TO-15/E3 QA230
Toluene	1.9	0.5	0.5		1	10/31/12 16:49	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/31/12 16:49	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/31/12 16:49	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/31/12 16:49	TO-15/E3 QA230
Trichloroethene	U	U	0.5		1	10/31/12 16:49	TO-15/E3 QA230
Trichlorofluoromethane	2.0	0.4	0.5	J	1	10/31/12 16:49	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/31/12 16:49	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/31/12 16:49	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	10/31/12 16:49	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	10/31/12 16:49	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	10/31/12 16:49	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery Limit	Expanded	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.57		96%	80-120	10/24/12	10/31/12 16:49 TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



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 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-101712-1	Lab ID: 1210009-13
Sample Matrix: Air	Date Collected: 10/17/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analytical	Method/SCDW
Benzene	0.6	0.2	0.5	J	1	10/31/12 17:33	TO-15/E3 QA230
Benzyl chloride	U	U	0.5		1	10/31/12 17:33	TO-15/E3 QA230
Bromodichloromethane	U	U	0.5		1	10/31/12 17:33	TO-15/E3 QA230
Bromoforn	U	U	0.5		1	10/31/12 17:33	TO-15/E3 QA230
Bromomethane	U	U	0.5		1	10/31/12 17:33	TO-15/E3 QA230
1,3-Butadiene	U	U	0.5		1	10/31/12 17:33	TO-15/E3 QA230
2-Butanone	1.0	0.4	0.5	J	1	10/31/12 17:33	TO-15/E3 QA230
Carbon disulfide	U	U	0.5		1	10/31/12 17:33	TO-15/E3 QA230
Carbon Tetrachloride	U	U	0.5		1	10/31/12 17:33	TO-15/E3 QA230
Chlorobenzene	U	U	0.5		1	10/31/12 17:33	TO-15/E3 QA230
Chloroethane	U	U	0.5		1	10/31/12 17:33	TO-15/E3 QA230
Chloroform	U	U	0.5		1	10/31/12 17:33	TO-15/E3 QA230
Chloromethane	1.7	0.8	0.5		1	10/31/12 17:33	TO-15/E3 QA230
Dibromochloromethane	U	U	0.5		1	10/31/12 17:33	TO-15/E3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/31/12 17:33	TO-15/E3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/31/12 17:33	TO-15/E3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/31/12 17:33	TO-15/E3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/31/12 17:33	TO-15/E3 QA230
Dichlorodifluoromethane	3.5	0.7	0.5		1	10/31/12 17:33	TO-15/E3 QA230
1,1-Dichloroethane	U	U	0.5		1	10/31/12 17:33	TO-15/E3 QA230
1,2-Dichloroethane	U	U	0.5		1	10/31/12 17:33	TO-15/E3 QA230
1,1-Dichloroethene	U	U	0.5		1	10/31/12 17:33	TO-15/E3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	10/31/12 17:33	TO-15/E3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	10/31/12 17:33	TO-15/E3 QA230
1,2-Dichloropropene	U	U	0.5		1	10/31/12 17:33	TO-15/E3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/31/12 17:33	TO-15/E3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/31/12 17:33	TO-15/E3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/31/12 17:33	TO-15/E3 QA230
Ethanol	9.5	5.0	0.5		1	10/31/12 17:33	TO-15/E3 QA230
Ethylbenzene	U	U	0.5		1	10/31/12 17:33	TO-15/E3 QA230
Freon 113	U	U	0.5		1	10/31/12 17:33	TO-15/E3 QA230
Hexachlorobutadiene	U	U	0.5		1	10/31/12 17:33	TO-15/E3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/31/12 17:33	TO-15/E3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/31/12 17:33	TO-15/E3 QA230
Methylene Chloride	0.6	0.2	0.5	J	1	10/31/12 17:33	TO-15/E3 QA230
Naphthalene	U	U	0.5		1	10/31/12 17:33	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



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 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-101712-1	Lab ID: 1210009-13
Sample Matrix: Air	Date Collected: 10/17/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDW
Propylene	U	U	0.5		1	10/31/12 17:33	TO-15/RS QA230
Styrene	U	U	0.5		1	10/31/12 17:33	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/31/12 17:33	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	10/31/12 17:33	TO-15/RS QA230
Toluene	4.1	1.1	0.5		1	10/31/12 17:33	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/31/12 17:33	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/31/12 17:33	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/31/12 17:33	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	10/31/12 17:33	TO-15/RS QA230
Trichlorofluoromethane	2.0	0.4	0.5	J	1	10/31/12 17:33	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/31/12 17:33	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/31/12 17:33	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	10/31/12 17:33	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	10/31/12 17:33	TO-15/RS QA230
o-Xylene	U	U	0.5		1	10/31/12 17:33	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCDW
<i>Surrogate: Bromofluorobenzene</i>	9.56		96%	80-120	10/24/12	10/31/12 17:33	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-101712-2	Lab ID: 1210009-14
Sample Matrix: Air	Date Collected: 10/17/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/SCM#
Benzene	0.8	0.2	0.5	J	1	10/8/12 18:15	TO-15/ES QA230
Benzyl chloride	U	U	0.5		1	10/8/12 18:15	TO-15/ES QA230
Bromodichloromethane	U	U	0.5		1	10/8/12 18:15	TO-15/ES QA230
Bromofom	U	U	0.5		1	10/8/12 18:15	TO-15/ES QA230
Bromomethane	U	U	0.5		1	10/8/12 18:15	TO-15/ES QA230
1,3-Butadiene	U	U	0.5		1	10/8/12 18:15	TO-15/ES QA230
2-Butanone	1.5	0.5	0.5		1	10/8/12 18:15	TO-15/ES QA230
Carbon disulfide	U	U	0.5		1	10/8/12 18:15	TO-15/ES QA230
Carbon Tetrachloride	U	U	0.5		1	10/8/12 18:15	TO-15/ES QA230
Chlorobenzene	U	U	0.5		1	10/8/12 18:15	TO-15/ES QA230
Chloroethane	U	U	0.5		1	10/8/12 18:15	TO-15/ES QA230
Chloroform	U	U	0.5		1	10/8/12 18:15	TO-15/ES QA230
Chloromethane	1.8	0.9	0.5		1	10/8/12 18:15	TO-15/ES QA230
Dibromochloromethane	U	U	0.5		1	10/8/12 18:15	TO-15/ES QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/8/12 18:15	TO-15/ES QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/8/12 18:15	TO-15/ES QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/8/12 18:15	TO-15/ES QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/8/12 18:15	TO-15/ES QA230
Dichlorodifluoromethane	3.5	0.7	0.5		1	10/8/12 18:15	TO-15/ES QA230
1,1-Dichloroethane	U	U	0.5		1	10/8/12 18:15	TO-15/ES QA230
1,2-Dichloroethane	U	U	0.5		1	10/8/12 18:15	TO-15/ES QA230
1,1-Dichloroethene	U	U	0.5		1	10/8/12 18:15	TO-15/ES QA230
cis-1,2-Dichloroethene	U	U	0.5		1	10/8/12 18:15	TO-15/ES QA230
trans-1,2-Dichloroethene	U	U	0.5		1	10/8/12 18:15	TO-15/ES QA230
1,2-Dichloropropane	U	U	0.5		1	10/8/12 18:15	TO-15/ES QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/8/12 18:15	TO-15/ES QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/8/12 18:15	TO-15/ES QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/8/12 18:15	TO-15/ES QA230
Ethanol	16.3	8.6	0.5		1	10/8/12 18:15	TO-15/ES QA230
Ethylbenzene	U	U	0.5		1	10/8/12 18:15	TO-15/ES QA230
Heon 113	U	U	0.5		1	10/8/12 18:15	TO-15/ES QA230
Hexachlorobutadiene	U	U	0.5		1	10/8/12 18:15	TO-15/ES QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/8/12 18:15	TO-15/ES QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/8/12 18:15	TO-15/ES QA230
Methylene Chloride	2.1	0.6	0.5		1	10/8/12 18:15	TO-15/ES QA230
Naphthalene	U	U	0.5		1	10/8/12 18:15	TO-15/ES QA230

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 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-101712-2	Lab ID: 1210009-14
Sample Matrix: Air	Date Collected: 10/17/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	10/31/12 18:15	TO-15/RS QA230
Styrene	U	U	0.5		1	10/31/12 18:15	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/31/12 18:15	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	10/31/12 18:15	TO-15/RS QA230
Toluene	11.2	3.0	0.5	K	1	10/31/12 18:15	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/31/12 18:15	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/31/12 18:15	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/31/12 18:15	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	10/31/12 18:15	TO-15/RS QA230
Trichlorofluoromethane	2.0	0.4	0.5	J	1	10/31/12 18:15	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/31/12 18:15	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/31/12 18:15	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	10/31/12 18:15	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	10/31/12 18:15	TO-15/RS QA230
o-Xylene	U	U	0.5		1	10/31/12 18:15	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Accuracy Limit	Expanded	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.56		96%	80-120	10/26/12	10/31/12 18:15	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-101712-2C0	Lab ID: 1210009-15
Sample Matrix: Air	Date Collected: 10/17/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Benzene	0.6	0.2	0.5	J	1	10/31/12 18:59	TO-15/R3 Q4230
Benzyl chloride	U	U	0.5		1	10/31/12 18:59	TO-15/R3 Q4230
Bromodichloromethane	U	U	0.5		1	10/31/12 18:59	TO-15/R3 Q4230
Bromoform	U	U	0.5		1	10/31/12 18:59	TO-15/R3 Q4230
Bromoethane	U	U	0.5		1	10/31/12 18:59	TO-15/R3 Q4230
1,3-Butadiene	U	U	0.5		1	10/31/12 18:59	TO-15/R3 Q4230
2-Butanone	0.6	0.2	0.5	J	1	10/31/12 18:59	TO-15/R3 Q4230
Carbon disulfide	U	U	0.5		1	10/31/12 18:59	TO-15/R3 Q4230
Carbon Tetrachloride	U	U	0.5		1	10/31/12 18:59	TO-15/R3 Q4230
Chlorobenzene	U	U	0.5		1	10/31/12 18:59	TO-15/R3 Q4230
Chloroethane	U	U	0.5		1	10/31/12 18:59	TO-15/R3 Q4230
Chloroform	U	U	0.5		1	10/31/12 18:59	TO-15/R3 Q4230
Chloromethane	1.5	0.7	0.5		1	10/31/12 18:59	TO-15/R3 Q4230
Dibromochloromethane	U	U	0.5		1	10/31/12 18:59	TO-15/R3 Q4230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/31/12 18:59	TO-15/R3 Q4230
1,2-Dichlorobenzene	U	U	0.5		1	10/31/12 18:59	TO-15/R3 Q4230
1,3-Dichlorobenzene	U	U	0.5		1	10/31/12 18:59	TO-15/R3 Q4230
1,4-Dichlorobenzene	U	U	0.5		1	10/31/12 18:59	TO-15/R3 Q4230
Dichlorodifluoromethane	3.3	0.7	0.5		1	10/31/12 18:59	TO-15/R3 Q4230
1,1-Dichloroethane	U	U	0.5		1	10/31/12 18:59	TO-15/R3 Q4230
1,2-Dichloroethane	U	U	0.5		1	10/31/12 18:59	TO-15/R3 Q4230
1,1-Dichloroethene	U	U	0.5		1	10/31/12 18:59	TO-15/R3 Q4230
cis-1,2-Dichloroethene	U	U	0.5		1	10/31/12 18:59	TO-15/R3 Q4230
trans-1,2-Dichloroethene	U	U	0.5		1	10/31/12 18:59	TO-15/R3 Q4230
1,2-Dichloropropene	U	U	0.5		1	10/31/12 18:59	TO-15/R3 Q4230
cis-1,3-Dichloropropene	U	U	0.5		1	10/31/12 18:59	TO-15/R3 Q4230
trans-1,3-Dichloropropene	U	U	0.5		1	10/31/12 18:59	TO-15/R3 Q4230
Dichlorotetrafluoroethane	U	U	0.5		1	10/31/12 18:59	TO-15/R3 Q4230
Ethanol	9.5	5.0	0.5		1	10/31/12 18:59	TO-15/R3 Q4230
Ethylbenzene	U	U	0.5		1	10/31/12 18:59	TO-15/R3 Q4230
Freon 113	U	U	0.5		1	10/31/12 18:59	TO-15/R3 Q4230
Hexachlorobutadiene	U	U	0.5		1	10/31/12 18:59	TO-15/R3 Q4230
Methyl tert-Butyl Ether	U	U	0.5		1	10/31/12 18:59	TO-15/R3 Q4230
4-Methyl-2-pentanone	U	U	0.5		1	10/31/12 18:59	TO-15/R3 Q4230
Methylene Chloride	0.6	0.2	0.5	J	1	10/31/12 18:59	TO-15/R3 Q4230
Naphthalene	U	U	0.5		1	10/31/12 18:59	TO-15/R3 Q4230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-101712-2C0	Lab ID: 1210009-15
Sample Matrix: Air	Date Collected: 10/17/2012

**Volatile Organic Compounds
Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF
Propylene	U	U	0.5		1	10/31/12 18:59	TO-15/R3 QA230
Styrene	U	U	0.5		1	10/31/12 18:59	TO-15/R3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/31/12 18:59	TO-15/R3 QA230
Tetrachloroethane	U	U	0.5		1	10/31/12 18:59	TO-15/R3 QA230
Toluene	1.1	0.3	0.5	J	1	10/31/12 18:59	TO-15/R3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/31/12 18:59	TO-15/R3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/31/12 18:59	TO-15/R3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/31/12 18:59	TO-15/R3 QA230
Trichloroethane	U	U	0.5		1	10/31/12 18:59	TO-15/R3 QA230
Trichlorofluoromethane	1.9	0.3	0.5	J	1	10/31/12 18:59	TO-15/R3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/31/12 18:59	TO-15/R3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/31/12 18:59	TO-15/R3 QA230
Vinyl chloride	U	U	0.5		1	10/31/12 18:59	TO-15/R3 QA230
m,p-Xylene	U	U	1.0		1	10/31/12 18:59	TO-15/R3 QA230
o-Xylene	U	U	0.5		1	10/31/12 18:59	TO-15/R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCDF
<i>Surrogate: Bromofluorobenzene</i>	9.56		96%	80-120	10/26/12	10/31/12 18:59	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-101712-3	Lab ID: 1210009-16
Sample Matrix: Air	Date Collected: 10/17/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/QC#
Benzene	0.6	0.2	0.5	J	1	10/17/12 19:42	TO-15/E3 QA230
Benzyl chloride	U	U	0.5		1	10/17/12 19:42	TO-15/E3 QA230
Bromodichloromethane	U	U	0.5		1	10/17/12 19:42	TO-15/E3 QA230
Bromofom	U	U	0.5		1	10/17/12 19:42	TO-15/E3 QA230
Bromomethane	U	U	0.5		1	10/17/12 19:42	TO-15/E3 QA230
1,3-Butadiene	U	U	0.5		1	10/17/12 19:42	TO-15/E3 QA230
2-Butanone	0.7	0.2	0.5	J	1	10/17/12 19:42	TO-15/E3 QA230
Carbon disulfide	U	U	0.5		1	10/17/12 19:42	TO-15/E3 QA230
Carbon Tetrachloride	U	U	0.5		1	10/17/12 19:42	TO-15/E3 QA230
Chlorobenzene	U	U	0.5		1	10/17/12 19:42	TO-15/E3 QA230
Chloroethane	U	U	0.5		1	10/17/12 19:42	TO-15/E3 QA230
Chloroform	U	U	0.5		1	10/17/12 19:42	TO-15/E3 QA230
Chloromethane	1.3	0.6	0.5		1	10/17/12 19:42	TO-15/E3 QA230
Dibromochloromethane	U	U	0.5		1	10/17/12 19:42	TO-15/E3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/17/12 19:42	TO-15/E3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/17/12 19:42	TO-15/E3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/17/12 19:42	TO-15/E3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/17/12 19:42	TO-15/E3 QA230
Dichlorodifluoromethane	3.4	0.7	0.5		1	10/17/12 19:42	TO-15/E3 QA230
1,1-Dichloroethane	U	U	0.5		1	10/17/12 19:42	TO-15/E3 QA230
1,2-Dichloroethane	U	U	0.5		1	10/17/12 19:42	TO-15/E3 QA230
1,1-Dichloroethene	U	U	0.5		1	10/17/12 19:42	TO-15/E3 QA230
cis-1,2-Dichloroethane	U	U	0.5		1	10/17/12 19:42	TO-15/E3 QA230
trans-1,2-Dichloroethane	U	U	0.5		1	10/17/12 19:42	TO-15/E3 QA230
1,2-Dichloropropane	U	U	0.5		1	10/17/12 19:42	TO-15/E3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/17/12 19:42	TO-15/E3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/17/12 19:42	TO-15/E3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/17/12 19:42	TO-15/E3 QA230
Ethanol	6.7	3.6	0.5		1	10/17/12 19:42	TO-15/E3 QA230
Ethylbenzene	U	U	0.5		1	10/17/12 19:42	TO-15/E3 QA230
Heon 113	U	U	0.5		1	10/17/12 19:42	TO-15/E3 QA230
Hexachlorobutadiene	U	U	0.5		1	10/17/12 19:42	TO-15/E3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/17/12 19:42	TO-15/E3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/17/12 19:42	TO-15/E3 QA230
Methylene Chloride	0.6	0.2	0.5	J	1	10/17/12 19:42	TO-15/E3 QA230
Naphthalene	U	U	0.5		1	10/17/12 19:42	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-101712-3	Lab ID: 1210009-16
Sample Matrix: Air	Date Collected: 10/17/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	10/31/12 19:42	TO-15/R3 QA230
Styrene	U	U	0.5		1	10/31/12 19:42	TO-15/R3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/31/12 19:42	TO-15/R3 QA230
Tetrachloroethene	U	U	0.5		1	10/31/12 19:42	TO-15/R3 QA230
Toluene	2.5	0.7	0.5		1	10/31/12 19:42	TO-15/R3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/31/12 19:42	TO-15/R3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	10/31/12 19:42	TO-15/R3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	10/31/12 19:42	TO-15/R3 QA230
Trichloroethene	U	U	0.5		1	10/31/12 19:42	TO-15/R3 QA230
Trichlorofluoromethane	1.9	0.3	0.5	J	1	10/31/12 19:42	TO-15/R3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/31/12 19:42	TO-15/R3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/31/12 19:42	TO-15/R3 QA230
Vinyl chloride	U	U	0.5		1	10/31/12 19:42	TO-15/R3 QA230
m,p-Xylene	U	U	1.0		1	10/31/12 19:42	TO-15/R3 QA230
o-Xylene	U	U	0.5		1	10/31/12 19:42	TO-15/R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.44		94%	80-120	10/26/12	10/31/12 19:42	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-101712	Lab ID: 1210009-17
Sample Matrix: Air	Date Collected: 10/17/2012

Volatile Organic Compounds
 Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SD#
Benzene	0.6	0.2	0.5	J	1	10/31/12 20:25	TO-15/E3 QA230
Benzyl chloride	U	U	0.5		1	10/31/12 20:25	TO-15/E3 QA230
Bromodichloromethane	U	U	0.5		1	10/31/12 20:25	TO-15/E3 QA230
Bromoform	U	U	0.5		1	10/31/12 20:25	TO-15/E3 QA230
Bromomethane	U	U	0.5		1	10/31/12 20:25	TO-15/E3 QA230
1,3-Butadiene	U	U	0.5		1	10/31/12 20:25	TO-15/E3 QA230
2-Butanone	0.8	0.3	0.5	J	1	10/31/12 20:25	TO-15/E3 QA230
Carbon disulfide	U	U	0.5		1	10/31/12 20:25	TO-15/E3 QA230
Carbon Tetrachloride	1.0	0.2	0.5	J	1	10/31/12 20:25	TO-15/E3 QA230
Chlorobenzene	U	U	0.5		1	10/31/12 20:25	TO-15/E3 QA230
Chloroethane	U	U	0.5		1	10/31/12 20:25	TO-15/E3 QA230
Chloroform	U	U	0.5		1	10/31/12 20:25	TO-15/E3 QA230
Chloromethane	1.6	0.8	0.5		1	10/31/12 20:25	TO-15/E3 QA230
Dibromochloromethane	U	U	0.5		1	10/31/12 20:25	TO-15/E3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	10/31/12 20:25	TO-15/E3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	10/31/12 20:25	TO-15/E3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	10/31/12 20:25	TO-15/E3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	10/31/12 20:25	TO-15/E3 QA230
Dichlorodifluoromethane	3.9	0.8	0.5		1	10/31/12 20:25	TO-15/E3 QA230
1,1-Dichloroethane	U	U	0.5		1	10/31/12 20:25	TO-15/E3 QA230
1,2-Dichloroethane	U	U	0.5		1	10/31/12 20:25	TO-15/E3 QA230
1,1-Dichloroethene	U	U	0.5		1	10/31/12 20:25	TO-15/E3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	10/31/12 20:25	TO-15/E3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	10/31/12 20:25	TO-15/E3 QA230
1,2-Dichloropropene	U	U	0.5		1	10/31/12 20:25	TO-15/E3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	10/31/12 20:25	TO-15/E3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	10/31/12 20:25	TO-15/E3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	10/31/12 20:25	TO-15/E3 QA230
Ethanol	7.6	4.0	0.5		1	10/31/12 20:25	TO-15/E3 QA230
Ethylbenzene	U	U	0.5		1	10/31/12 20:25	TO-15/E3 QA230
Eron 113	1.2	0.2	0.5	J	1	10/31/12 20:25	TO-15/E3 QA230
Hexachlorobutadiene	U	U	0.5		1	10/31/12 20:25	TO-15/E3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	10/31/12 20:25	TO-15/E3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	10/31/12 20:25	TO-15/E3 QA230
Methylene Chloride	0.6	0.2	0.5	J	1	10/31/12 20:25	TO-15/E3 QA230
Naphthalene	U	U	0.5		1	10/31/12 20:25	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-101712	Lab ID: 1210009-17
Sample Matrix: Air	Date Collected: 10/17/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDH
Propylene	U	U	0.5		1	10/31/12 20:25	TO-15/R3 Q4230
Styrene	U	U	0.5		1	10/31/12 20:25	TO-15/R3 Q4230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	10/31/12 20:25	TO-15/R3 Q4230
Tetrachloroethene	U	U	0.5		1	10/31/12 20:25	TO-15/R3 Q4230
Toluene	1.0	0.3	0.5	J	1	10/31/12 20:25	TO-15/R3 Q4230
1,2,4-Trichlorobenzene	U	U	0.5		1	10/31/12 20:25	TO-15/R3 Q4230
1,1,1-Trichloroethane	U	U	0.5		1	10/31/12 20:25	TO-15/R3 Q4230
1,1,2-Trichloroethane	U	U	0.5		1	10/31/12 20:25	TO-15/R3 Q4230
Trichloroethene	U	U	0.5		1	10/31/12 20:25	TO-15/R3 Q4230
Trichlorofluoromethane	2.2	0.4	0.5	J	1	10/31/12 20:25	TO-15/R3 Q4230
1,2,4-Trimethylbenzene	U	U	0.5		1	10/31/12 20:25	TO-15/R3 Q4230
1,3,5-Trimethylbenzene	U	U	0.5		1	10/31/12 20:25	TO-15/R3 Q4230
Vinyl chloride	U	U	0.5		1	10/31/12 20:25	TO-15/R3 Q4230
m,p-Xylene	U	U	1.0		1	10/31/12 20:25	TO-15/R3 Q4230
o-Xylene	U	U	0.5		1	10/31/12 20:25	TO-15/R3 Q4230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Prepared	Analysed	Method/SCDH
<i>Surrogate: Bromofluorobenzene</i>	100		100 %	80-120	10/24/12	10/31/12 20:25	TO-15/R3 Q4230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA
Station ID: ERIG-VOC-101912-1
Sample Matrix: Air

Project #: NSF 615
Lab ID: 1210013-01
Date Collected: 10/19/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/SCM#
Benzene	0.5	0.2	0.5	J	1	11/15/12 11:07	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230
Bromoform	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230
Bromomethane	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230
2-Butanone	0.6	0.2	0.5	J	1	11/15/12 11:07	TO-15/RS QA230
Carbon disulfide	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230
Chloroethane	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230
Chloroform	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230
Chloromethane	1.3	0.6	0.5		1	11/15/12 11:07	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230
Dichlorodifluoromethane	2.7	0.6	0.5		1	11/15/12 11:07	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230
cis-1,2-Dichloroethane	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230
trans-1,2-Dichloroethane	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230
1,2-Dichloropropane	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5	U	1	11/15/12 11:07	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230
Ethanol	7.1	3.8	0.5	L	1	11/15/12 11:07	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230
Freon 113	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5	U	1	11/15/12 11:07	TO-15/RS QA230
Methylene Chloride	0.6	0.2	0.5	J	1	11/15/12 11:07	TO-15/RS QA230
Naphthalene	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-101912-1	Lab ID: 1210013-01
Sample Matrix: Air	Date Collected: 10/19/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF
Propylene	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230
Styrene	U	U	0.5	U	1	11/15/12 11:07	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230
Toluene	2.1	0.6	0.5		1	11/15/12 11:07	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230
Trichlorofluoromethane	1.5	0.3	0.5	J	1	11/15/12 11:07	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	11/15/12 11:07	TO-15/RS QA230
o-Xylene	U	U	0.5		1	11/15/12 11:07	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCDF
<i>Surrogate: Bromofluorobenzene</i>	9.23		92%	80-120	11/15/12	11/15/12 11:07	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA

Project #: NSF 615

Station ID: BRIG-VOC-101912-2

Lab ID: 1210013-02

Sample Matrix: Air

Date Collected: 10/19/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/DOE#
Benzene	U	U	0.5		1	11/15/12 11:50	TO-15/R3 Q4230
Benzyl chloride	U	U	0.5		1	11/15/12 11:50	TO-15/R3 Q4230
Bromodichloromethane	U	U	0.5		1	11/15/12 11:50	TO-15/R3 Q4230
Bromofom	U	U	0.5		1	11/15/12 11:50	TO-15/R3 Q4230
Bromomethane	U	U	0.5		1	11/15/12 11:50	TO-15/R3 Q4230
1,3-Butadiene	U	U	0.5		1	11/15/12 11:50	TO-15/R3 Q4230
2-Butanone	0.6	0.2	0.5	J	1	11/15/12 11:50	TO-15/R3 Q4230
Carbonyl sulfide	U	U	0.5		1	11/15/12 11:50	TO-15/R3 Q4230
Carbon Tetrachloride	U	U	0.5		1	11/15/12 11:50	TO-15/R3 Q4230
Chlorobenzene	U	U	0.5		1	11/15/12 11:50	TO-15/R3 Q4230
Chloroethane	U	U	0.5		1	11/15/12 11:50	TO-15/R3 Q4230
Chloroform	U	U	0.5		1	11/15/12 11:50	TO-15/R3 Q4230
Chloromethane	1.2	0.6	0.5		1	11/15/12 11:50	TO-15/R3 Q4230
Dibromochloromethane	U	U	0.5		1	11/15/12 11:50	TO-15/R3 Q4230
1,2-Dibromoethane (EDB)	U	U	0.5		1	11/15/12 11:50	TO-15/R3 Q4230
1,2-Dichlorobenzene	U	U	0.5		1	11/15/12 11:50	TO-15/R3 Q4230
1,3-Dichlorobenzene	U	U	0.5		1	11/15/12 11:50	TO-15/R3 Q4230
1,4-Dichlorobenzene	U	U	0.5		1	11/15/12 11:50	TO-15/R3 Q4230
Dichlorodifluoromethane	2.7	0.6	0.5		1	11/15/12 11:50	TO-15/R3 Q4230
1,1-Dichloroethane	U	U	0.5		1	11/15/12 11:50	TO-15/R3 Q4230
1,2-Dichloroethane	U	U	0.5		1	11/15/12 11:50	TO-15/R3 Q4230
1,1-Dichloroethene	U	U	0.5		1	11/15/12 11:50	TO-15/R3 Q4230
cis-1,2-Dichloroethene	U	U	0.5		1	11/15/12 11:50	TO-15/R3 Q4230
trans-1,2-Dichloroethene	U	U	0.5		1	11/15/12 11:50	TO-15/R3 Q4230
1,2-Dichloropropane	U	U	0.5		1	11/15/12 11:50	TO-15/R3 Q4230
cis-1,3-Dichloropropene	U	U	0.5		1	11/15/12 11:50	TO-15/R3 Q4230
trans-1,3-Dichloropropene	U	U	0.5	U	1	11/15/12 11:50	TO-15/R3 Q4230
Dichlorotetrafluoroethane	U	U	0.5		1	11/15/12 11:50	TO-15/R3 Q4230
Ethanol	6.4	3.4	0.5	L	1	11/15/12 11:50	TO-15/R3 Q4230
Ethylbenzene	U	U	0.5		1	11/15/12 11:50	TO-15/R3 Q4230
Heon 113	U	U	0.5		1	11/15/12 11:50	TO-15/R3 Q4230
Hexachlorobutadiene	U	U	0.5		1	11/15/12 11:50	TO-15/R3 Q4230
Methyl tert-Butyl Ether	U	U	0.5		1	11/15/12 11:50	TO-15/R3 Q4230
4-Methyl-2-pentanone	U	U	0.5	U	1	11/15/12 11:50	TO-15/R3 Q4230
Methylene Chloride	U	U	0.5		1	11/15/12 11:50	TO-15/R3 Q4230
Naphthalene	U	U	0.5		1	11/15/12 11:50	TO-15/R3 Q4230
Propylene	U	U	0.5		1	11/15/12 11:50	TO-15/R3 Q4230

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-101912-2	Lab ID: 1210013-02
Sample Matrix: Air	Date Collected: 10/19/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Styrene	U	U	0.5	U	1	11/15/12 11:50	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/15/12 11:50	TO-15/E3 QA230
Tetrachloroethene	U	U	0.5		1	11/15/12 11:50	TO-15/E3 QA230
Toluene	0.7	0.2	0.5	J	1	11/15/12 11:50	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	11/15/12 11:50	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	11/15/12 11:50	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	11/15/12 11:50	TO-15/E3 QA230
Trichloroethene	U	U	0.5		1	11/15/12 11:50	TO-15/E3 QA230
Trichlorofluoromethane	1.4	0.2	0.5	J	1	11/15/12 11:50	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/15/12 11:50	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/15/12 11:50	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	11/15/12 11:50	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	11/15/12 11:50	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	11/15/12 11:50	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limits	Expanded	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.19		92%	80-120	11/15/12	11/15/12 11:50	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



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 Region 3 Environmental Science Center
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 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-101912-2C0	Lab ID: 1210013-03
Sample Matrix: Air	Date Collected: 10/19/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/CE#
Benzene	0.5	0.2	0.5	J	1	11/15/12 1233	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	11/15/12 1233	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	11/15/12 1233	TO-15/RS QA230
Bromoform	U	U	0.5		1	11/15/12 1233	TO-15/RS QA230
Bromoethane	U	U	0.5		1	11/15/12 1233	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	11/15/12 1233	TO-15/RS QA230
2-Butanone	0.5	0.2	0.5	J	1	11/15/12 1233	TO-15/RS QA230
Carbon disulfide	U	U	0.5		1	11/15/12 1233	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	11/15/12 1233	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	11/15/12 1233	TO-15/RS QA230
Chloroethane	U	U	0.5		1	11/15/12 1233	TO-15/RS QA230
Chloroform	U	U	0.5		1	11/15/12 1233	TO-15/RS QA230
Chloroethane	1.0	0.5	0.5		1	11/15/12 1233	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	11/15/12 1233	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	11/15/12 1233	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	11/15/12 1233	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	11/15/12 1233	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	11/15/12 1233	TO-15/RS QA230
Dichlorodifluoromethane	2.5	0.5	0.5		1	11/15/12 1233	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	11/15/12 1233	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	11/15/12 1233	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	11/15/12 1233	TO-15/RS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	11/15/12 1233	TO-15/RS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	11/15/12 1233	TO-15/RS QA230
1,2-Dichloropropene	U	U	0.5		1	11/15/12 1233	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	11/15/12 1233	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5	UF	1	11/15/12 1233	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	11/15/12 1233	TO-15/RS QA230
Ethanol	6.1	3.2	0.5	L	1	11/15/12 1233	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	11/15/12 1233	TO-15/RS QA230
Heon 113	U	U	0.5		1	11/15/12 1233	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	11/15/12 1233	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	11/15/12 1233	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5	UF	1	11/15/12 1233	TO-15/RS QA230
Methylene Chloride	U	U	0.5		1	11/15/12 1233	TO-15/RS QA230
Naphthalene	U	U	0.5		1	11/15/12 1233	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-101912-2C0	Lab ID: 1210013-03
Sample Matrix: Air	Date Collected: 10/19/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/CEM
Propylene	U	U	0.5		1	11/15/12 12:33	TO-15/RS QA230
Styrene	U	U	0.5	U	1	11/15/12 12:33	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/15/12 12:33	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	11/15/12 12:33	TO-15/RS QA230
Toluene	2.4	0.6	0.5		1	11/15/12 12:33	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	11/15/12 12:33	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	11/15/12 12:33	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	11/15/12 12:33	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	11/15/12 12:33	TO-15/RS QA230
Trichlorofluoromethane	1.4	0.2	0.5	J	1	11/15/12 12:33	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/15/12 12:33	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/15/12 12:33	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	11/15/12 12:33	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	11/15/12 12:33	TO-15/RS QA230
o-Xylene	U	U	0.5		1	11/15/12 12:33	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/CEM
<i>Surrogate: Bromofluorobenzene</i>	9.12		91%	80-120	11/15/12	11/15/12 12:33	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA
Station ID: BRIG-VOC-101912-3
Sample Matrix: Air

Project #: NSF 615
Lab ID: 1210013-04
Date Collected: 10/19/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/SCDH
Benzene	U	U	0.5		1	11/15/12 13:18	TO-15/E3 Q4230
Benzyl chloride	U	U	0.5		1	11/15/12 13:18	TO-15/E3 Q4230
Bromodichloromethane	U	U	0.5		1	11/15/12 13:18	TO-15/E3 Q4230
Bromoform	U	U	0.5		1	11/15/12 13:18	TO-15/E3 Q4230
Bromomethane	U	U	0.5		1	11/15/12 13:18	TO-15/E3 Q4230
1,3-Butadiene	U	U	0.5		1	11/15/12 13:18	TO-15/E3 Q4230
2-Butanone	0.6	0.2	0.5	J	1	11/15/12 13:18	TO-15/E3 Q4230
Carbon disulfide	U	U	0.5		1	11/15/12 13:18	TO-15/E3 Q4230
Carbon Tetrachloride	U	U	0.5		1	11/15/12 13:18	TO-15/E3 Q4230
Chlorobenzene	U	U	0.5		1	11/15/12 13:18	TO-15/E3 Q4230
Chloroethane	U	U	0.5		1	11/15/12 13:18	TO-15/E3 Q4230
Chloroform	U	U	0.5		1	11/15/12 13:18	TO-15/E3 Q4230
Chloromethane	1.1	0.5	0.5		1	11/15/12 13:18	TO-15/E3 Q4230
Dibromochloromethane	U	U	0.5		1	11/15/12 13:18	TO-15/E3 Q4230
1,2-Dibromoethane (EDB)	U	U	0.5		1	11/15/12 13:18	TO-15/E3 Q4230
1,2-Dichlorobenzene	U	U	0.5		1	11/15/12 13:18	TO-15/E3 Q4230
1,3-Dichlorobenzene	U	U	0.5		1	11/15/12 13:18	TO-15/E3 Q4230
1,4-Dichlorobenzene	U	U	0.5		1	11/15/12 13:18	TO-15/E3 Q4230
Dichlorodifluoromethane	2.6	0.5	0.5		1	11/15/12 13:18	TO-15/E3 Q4230
1,1-Dichloroethane	U	U	0.5		1	11/15/12 13:18	TO-15/E3 Q4230
1,2-Dichloroethane	U	U	0.5		1	11/15/12 13:18	TO-15/E3 Q4230
1,1-Dichloroethene	U	U	0.5		1	11/15/12 13:18	TO-15/E3 Q4230
cis-1,2-Dichloroethane	U	U	0.5		1	11/15/12 13:18	TO-15/E3 Q4230
trans-1,2-Dichloroethane	U	U	0.5		1	11/15/12 13:18	TO-15/E3 Q4230
1,2-Dichloropropene	U	U	0.5		1	11/15/12 13:18	TO-15/E3 Q4230
cis-1,3-Dichloropropene	U	U	0.5		1	11/15/12 13:18	TO-15/E3 Q4230
trans-1,3-Dichloropropene	U	U	0.5	UF	1	11/15/12 13:18	TO-15/E3 Q4230
Dichlorotetrafluoroethane	U	U	0.5		1	11/15/12 13:18	TO-15/E3 Q4230
Ethanol	4.4	23	0.5	L	1	11/15/12 13:18	TO-15/E3 Q4230
Ethylbenzene	U	U	0.5		1	11/15/12 13:18	TO-15/E3 Q4230
Freon 113	U	U	0.5		1	11/15/12 13:18	TO-15/E3 Q4230
Hexachlorobutadiene	U	U	0.5		1	11/15/12 13:18	TO-15/E3 Q4230
Methyl tert-Butyl Ether	U	U	0.5		1	11/15/12 13:18	TO-15/E3 Q4230
4-Methyl-2-pentanone	U	U	0.5	UF	1	11/15/12 13:18	TO-15/E3 Q4230
Methylene Chloride	0.5	0.2	0.5	J	1	11/15/12 13:18	TO-15/E3 Q4230
Naphthalene	U	U	0.5		1	11/15/12 13:18	TO-15/E3 Q4230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-101912-3	Lab ID: 1210013-04
Sample Matrix: Air	Date Collected: 10/19/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	11/15/12 13:18	TO-15/RS QA230
Styrene	U	U	0.5	U	1	11/15/12 13:18	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/15/12 13:18	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	11/15/12 13:18	TO-15/RS QA230
Toluene	2.0	0.5	0.5		1	11/15/12 13:18	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	11/15/12 13:18	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	11/15/12 13:18	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	11/15/12 13:18	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	11/15/12 13:18	TO-15/RS QA230
Trichlorofluoromethane	1.4	0.2	0.5	J	1	11/15/12 13:18	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/15/12 13:18	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/15/12 13:18	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	11/15/12 13:18	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	11/15/12 13:18	TO-15/RS QA230
o-Xylene	U	U	0.5		1	11/15/12 13:18	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Accuracy Limit	Expanded	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.16		92%	80-120	11/15/12	11/15/12 13:18	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-101912	Lab ID: 1210013-05
Sample Matrix: Air	Date Collected: 10/19/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/CFR#
Benzene	0.5	0.2	0.5	J	1	11/15/12 14.01	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	11/15/12 14.01	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	11/15/12 14.01	TO-15/RS QA230
Bromoform	U	U	0.5		1	11/15/12 14.01	TO-15/RS QA230
Bromoethane	U	U	0.5		1	11/15/12 14.01	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	11/15/12 14.01	TO-15/RS QA230
2-Butanone	0.5	0.2	0.5	J	1	11/15/12 14.01	TO-15/RS QA230
Carbon disulfide	U	U	0.5		1	11/15/12 14.01	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	11/15/12 14.01	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	11/15/12 14.01	TO-15/RS QA230
Chloroethane	U	U	0.5		1	11/15/12 14.01	TO-15/RS QA230
Chloroform	U	U	0.5		1	11/15/12 14.01	TO-15/RS QA230
Chloromethane	1.0	0.5	0.5		1	11/15/12 14.01	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	11/15/12 14.01	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	11/15/12 14.01	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	11/15/12 14.01	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	11/15/12 14.01	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	11/15/12 14.01	TO-15/RS QA230
Dichlorodifluoromethane	2.6	0.5	0.5		1	11/15/12 14.01	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	11/15/12 14.01	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	11/15/12 14.01	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	11/15/12 14.01	TO-15/RS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	11/15/12 14.01	TO-15/RS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	11/15/12 14.01	TO-15/RS QA230
1,2-Dichloropropane	U	U	0.5		1	11/15/12 14.01	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	11/15/12 14.01	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5	UF	1	11/15/12 14.01	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	11/15/12 14.01	TO-15/RS QA230
Ethanol	4.7	2.5	0.5	L	1	11/15/12 14.01	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	11/15/12 14.01	TO-15/RS QA230
Heptane	U	U	0.5		1	11/15/12 14.01	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	11/15/12 14.01	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	11/15/12 14.01	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5	UF	1	11/15/12 14.01	TO-15/RS QA230
Methylene Chloride	0.6	0.2	0.5	J	1	11/15/12 14.01	TO-15/RS QA230
Naphthalene	U	U	0.5		1	11/15/12 14.01	TO-15/RS QA230

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 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-101912	Lab ID: 1210013-05
Sample Matrix: Air	Date Collected: 10/19/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SOE#
Propylene	U	U	0.5		1	11/15/12 14:01	TO-15/E3 Q4230
Styrene	U	U	0.5	U	1	11/15/12 14:01	TO-15/E3 Q4230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/15/12 14:01	TO-15/E3 Q4230
Tetrachloroethene	U	U	0.5		1	11/15/12 14:01	TO-15/E3 Q4230
Toluene	1.4	0.4	0.5	J	1	11/15/12 14:01	TO-15/E3 Q4230
1,2,4-Trichlorobenzene	U	U	0.5		1	11/15/12 14:01	TO-15/E3 Q4230
1,1,1-Trichloroethane	U	U	0.5		1	11/15/12 14:01	TO-15/E3 Q4230
1,1,2-Trichloroethane	U	U	0.5		1	11/15/12 14:01	TO-15/E3 Q4230
Trichloroethene	U	U	0.5		1	11/15/12 14:01	TO-15/E3 Q4230
Trichlorofluoromethane	1.4	0.2	0.5	J	1	11/15/12 14:01	TO-15/E3 Q4230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/15/12 14:01	TO-15/E3 Q4230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/15/12 14:01	TO-15/E3 Q4230
Vinyl chloride	U	U	0.5		1	11/15/12 14:01	TO-15/E3 Q4230
m,p-Xylene	U	U	1.0		1	11/15/12 14:01	TO-15/E3 Q4230
o-Xylene	U	U	0.5		1	11/15/12 14:01	TO-15/E3 Q4230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SOE#
<i>Surrogate: Bromofluorobenzene</i>	9.14		91%	80-120	11/15/12	11/15/12 14:01	TO-15/E3 Q4230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-102212-1	Lab ID: 1210013-06
Sample Matrix: Air	Date Collected: 10/22/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCF#
Benzene	0.8	0.2	0.5	J	1	11/15/12 14:46	TO-15/R3 QA230
Benzyl chloride	U	U	0.5		1	11/15/12 14:46	TO-15/R3 QA230
Bromodichloromethane	U	U	0.5		1	11/15/12 14:46	TO-15/R3 QA230
Bromoform	U	U	0.5		1	11/15/12 14:46	TO-15/R3 QA230
Bromoethane	U	U	0.5		1	11/15/12 14:46	TO-15/R3 QA230
1,3-Butadiene	U	U	0.5		1	11/15/12 14:46	TO-15/R3 QA230
2-Butanone	1.3	0.4	0.5	J	1	11/15/12 14:46	TO-15/R3 QA230
Carbon disulfide	U	U	0.5		1	11/15/12 14:46	TO-15/R3 QA230
Carbon Tetrachloride	U	U	0.5		1	11/15/12 14:46	TO-15/R3 QA230
Chlorobenzene	U	U	0.5		1	11/15/12 14:46	TO-15/R3 QA230
Chloroethane	U	U	0.5		1	11/15/12 14:46	TO-15/R3 QA230
Chloroform	U	U	0.5		1	11/15/12 14:46	TO-15/R3 QA230
Chloromethane	1.2	0.6	0.5		1	11/15/12 14:46	TO-15/R3 QA230
Dibromochloromethane	U	U	0.5		1	11/15/12 14:46	TO-15/R3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	11/15/12 14:46	TO-15/R3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	11/15/12 14:46	TO-15/R3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	11/15/12 14:46	TO-15/R3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	11/15/12 14:46	TO-15/R3 QA230
Dichlorodifluoromethane	2.5	0.5	0.5		1	11/15/12 14:46	TO-15/R3 QA230
1,1-Dichloroethane	U	U	0.5		1	11/15/12 14:46	TO-15/R3 QA230
1,2-Dichloroethane	U	U	0.5		1	11/15/12 14:46	TO-15/R3 QA230
1,1-Dichloroethene	U	U	0.5		1	11/15/12 14:46	TO-15/R3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	11/15/12 14:46	TO-15/R3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	11/15/12 14:46	TO-15/R3 QA230
1,2-Dichloropropane	U	U	0.5		1	11/15/12 14:46	TO-15/R3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	11/15/12 14:46	TO-15/R3 QA230
trans-1,3-Dichloropropene	U	U	0.5	U	1	11/15/12 14:46	TO-15/R3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	11/15/12 14:46	TO-15/R3 QA230
Ethanol	9.0	4.8	0.5	L	1	11/15/12 14:46	TO-15/R3 QA230
Ethylbenzene	U	U	0.5		1	11/15/12 14:46	TO-15/R3 QA230
Freon 113	U	U	0.5		1	11/15/12 14:46	TO-15/R3 QA230
Hexachlorobutadiene	U	U	0.5		1	11/15/12 14:46	TO-15/R3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	11/15/12 14:46	TO-15/R3 QA230
4-Methyl-2-pentanone	U	U	0.5	U	1	11/15/12 14:46	TO-15/R3 QA230
Methylene Chloride	0.6	0.2	0.5	J	1	11/15/12 14:46	TO-15/R3 QA230
Naphthalene	U	U	0.5		1	11/15/12 14:46	TO-15/R3 QA230

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-102212-1	Lab ID: 1210013-06
Sample Matrix: Air	Date Collected: 10/22/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	11/15/12 14:46	TO-15/E3 QA230
Styrene	U	U	0.5	U	1	11/15/12 14:46	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/15/12 14:46	TO-15/E3 QA230
Tetrachloroethene	U	U	0.5		1	11/15/12 14:46	TO-15/E3 QA230
Toluene	4.8	1.2	0.5		1	11/15/12 14:46	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	11/15/12 14:46	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	11/15/12 14:46	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	11/15/12 14:46	TO-15/E3 QA230
Trichloroethene	U	U	0.5		1	11/15/12 14:46	TO-15/E3 QA230
Trichlorofluoromethane	1.4	0.2	0.5	J	1	11/15/12 14:46	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/15/12 14:46	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/15/12 14:46	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	11/15/12 14:46	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	11/15/12 14:46	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	11/15/12 14:46	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Prepared	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	8.97		90%	80-120	11/15/12	11/15/12 14:46	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



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 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-102212-2	Lab ID: 1210013-07
Sample Matrix: Air	Date Collected: 10/22/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF
Benzene	1.0	0.3	0.5	J	1	11/15/12 21:40	TO-15/R3 QA230
Benzyl chloride	U	U	0.5		1	11/15/12 21:40	TO-15/R3 QA230
Bromodichloromethane	U	U	0.5		1	11/15/12 21:40	TO-15/R3 QA230
Bromoform	U	U	0.5		1	11/15/12 21:40	TO-15/R3 QA230
Bromoethane	U	U	0.5		1	11/15/12 21:40	TO-15/R3 QA230
1,3-Butadiene	U	U	0.5		1	11/15/12 21:40	TO-15/R3 QA230
2-Butanone	1.5	0.5	0.5		1	11/15/12 21:40	TO-15/R3 QA230
Carbon disulfide	U	U	0.5		1	11/15/12 21:40	TO-15/R3 QA230
Carbon Tetrachloride	U	U	0.5		1	11/15/12 21:40	TO-15/R3 QA230
Chlorobenzene	U	U	0.5		1	11/15/12 21:40	TO-15/R3 QA230
Chloroethane	U	U	0.5		1	11/15/12 21:40	TO-15/R3 QA230
Chloroform	U	U	0.5		1	11/15/12 21:40	TO-15/R3 QA230
Chloromethane	1.2	0.6	0.5		1	11/15/12 21:40	TO-15/R3 QA230
Dibromochloromethane	U	U	0.5		1	11/15/12 21:40	TO-15/R3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	11/15/12 21:40	TO-15/R3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	11/15/12 21:40	TO-15/R3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	11/15/12 21:40	TO-15/R3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	11/15/12 21:40	TO-15/R3 QA230
Dichlorodifluoromethane	2.5	0.5	0.5		1	11/15/12 21:40	TO-15/R3 QA230
1,1-Dichloroethane	U	U	0.5		1	11/15/12 21:40	TO-15/R3 QA230
1,2-Dichloroethane	U	U	0.5		1	11/15/12 21:40	TO-15/R3 QA230
1,1-Dichloroethene	U	U	0.5		1	11/15/12 21:40	TO-15/R3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	11/15/12 21:40	TO-15/R3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	11/15/12 21:40	TO-15/R3 QA230
1,2-Dichloropropane	U	U	0.5		1	11/15/12 21:40	TO-15/R3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	11/15/12 21:40	TO-15/R3 QA230
trans-1,3-Dichloropropene	U	U	0.5	U	1	11/15/12 21:40	TO-15/R3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	11/15/12 21:40	TO-15/R3 QA230
Ethanol	26.6	14.0	0.5	L	1	11/15/12 21:40	TO-15/R3 QA230
Ethylbenzene	U	U	0.5		1	11/15/12 21:40	TO-15/R3 QA230
Freon 113	U	U	0.5		1	11/15/12 21:40	TO-15/R3 QA230
Hexachlorobutadiene	U	U	0.5		1	11/15/12 21:40	TO-15/R3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	11/15/12 21:40	TO-15/R3 QA230
4-Methyl-2-pentanone	U	U	0.5	U	1	11/15/12 21:40	TO-15/R3 QA230
Methylene Chloride	0.6	0.2	0.5	J	1	11/15/12 21:40	TO-15/R3 QA230
Naphthalene	U	U	0.5		1	11/15/12 21:40	TO-15/R3 QA230

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 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-102212-2	Lab ID: 1210013-07
Sample Matrix: Air	Date Collected: 10/22/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF#
Propylene	U	U	0.5		1	11/15/12 21.40	TO-15/ES QA230
Styrene	U	U	0.5	U	1	11/15/12 21.40	TO-15/ES QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/15/12 21.40	TO-15/ES QA230
Tetrachloroethane	U	U	0.5		1	11/15/12 21.40	TO-15/ES QA230
Toluene	8.7	23	0.5		1	11/15/12 21.40	TO-15/ES QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	11/15/12 21.40	TO-15/ES QA230
1,1,1-Trichloroethane	U	U	0.5		1	11/15/12 21.40	TO-15/ES QA230
1,1,2-Trichloroethane	U	U	0.5		1	11/15/12 21.40	TO-15/ES QA230
Trichloroethane	U	U	0.5		1	11/15/12 21.40	TO-15/ES QA230
Trichlorofluoromethane	1.4	0.2	0.5	J	1	11/15/12 21.40	TO-15/ES QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/15/12 21.40	TO-15/ES QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/15/12 21.40	TO-15/ES QA230
Vinyl chloride	U	U	0.5		1	11/15/12 21.40	TO-15/ES QA230
m,p-Xylene	U	U	1.0		1	11/15/12 21.40	TO-15/ES QA230
o-Xylene	U	U	0.5		1	11/15/12 21.40	TO-15/ES QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCDF#
<i>Surrogate: Bromofluorobenzene</i>	8.70		87%	80-120	11/15/12	11/15/12 21.40	TO-15/ES QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-102212-2C0	Lab ID: 1210013-08
Sample Matrix: Air	Date Collected: 10/22/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualities	Dilution	Analysed	Method/SCM#
Benzene	1.2	0.4	0.5	J	1	11/15/12 15:33	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	11/15/12 15:33	TO-15/RS QA230
Bromodichloroethane	U	U	0.5		1	11/15/12 15:33	TO-15/RS QA230
Bromofom	U	U	0.5		1	11/15/12 15:33	TO-15/RS QA230
Bromomethane	U	U	0.5		1	11/15/12 15:33	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	11/15/12 15:33	TO-15/RS QA230
2-Butanone	1.1	0.4	0.5	J	1	11/15/12 15:33	TO-15/RS QA230
Carbon disulfide	U	U	0.5		1	11/15/12 15:33	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	11/15/12 15:33	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	11/15/12 15:33	TO-15/RS QA230
Chloroethane	U	U	0.5		1	11/15/12 15:33	TO-15/RS QA230
Chloroform	U	U	0.5		1	11/15/12 15:33	TO-15/RS QA230
Chloromethane	1.6	0.8	0.5		1	11/15/12 15:33	TO-15/RS QA230
Dibromochloroethane	U	U	0.5		1	11/15/12 15:33	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	11/15/12 15:33	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	11/15/12 15:33	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	11/15/12 15:33	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	11/15/12 15:33	TO-15/RS QA230
Dichlorodifluoromethane	2.7	0.6	0.5		1	11/15/12 15:33	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	11/15/12 15:33	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	11/15/12 15:33	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	11/15/12 15:33	TO-15/RS QA230
cis-1,2-Dichloroethane	U	U	0.5		1	11/15/12 15:33	TO-15/RS QA230
trans-1,2-Dichloroethane	U	U	0.5		1	11/15/12 15:33	TO-15/RS QA230
1,2-Dichloropropene	U	U	0.5		1	11/15/12 15:33	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	11/15/12 15:33	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5	U	1	11/15/12 15:33	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	11/15/12 15:33	TO-15/RS QA230
Ethanol	16.9	8.9	0.5	L	1	11/15/12 15:33	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	11/15/12 15:33	TO-15/RS QA230
Freon 113	U	U	0.5		1	11/15/12 15:33	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	11/15/12 15:33	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	11/15/12 15:33	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5	U	1	11/15/12 15:33	TO-15/RS QA230
Methylene Chloride	0.6	0.2	0.5	J	1	11/15/12 15:33	TO-15/RS QA230
Naphthalene	U	U	0.5		1	11/15/12 15:33	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-102212-2C0	Lab ID: 1210013-08
Sample Matrix: Air	Date Collected: 10/22/2012

**Volatile Organic Compounds
Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/DOE#
Propylene	U	U	0.5		1	11/15/12 15:33	TO-15/F3 QA230
Styrene	U	U	0.5	U	1	11/15/12 15:33	TO-15/F3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/15/12 15:33	TO-15/F3 QA230
Tetrachloroethene	U	U	0.5		1	11/15/12 15:33	TO-15/F3 QA230
Toluene	2.4	0.6	0.5		1	11/15/12 15:33	TO-15/F3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	11/15/12 15:33	TO-15/F3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	11/15/12 15:33	TO-15/F3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	11/15/12 15:33	TO-15/F3 QA230
Trichloroethene	U	U	0.5		1	11/15/12 15:33	TO-15/F3 QA230
Trichlorofluoromethane	1.4	0.2	0.5	J	1	11/15/12 15:33	TO-15/F3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/15/12 15:33	TO-15/F3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/15/12 15:33	TO-15/F3 QA230
Vinyl chloride	U	U	0.5		1	11/15/12 15:33	TO-15/F3 QA230
m,p-Xylene	U	U	1.0		1	11/15/12 15:33	TO-15/F3 QA230
o-Xylene	U	U	0.5		1	11/15/12 15:33	TO-15/F3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/DOE#
<i>Surrogate: Bromofluorobenzene</i>	9.10		91%	80-120	11/15/12	11/15/12 15:33	TO-15/F3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



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 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-102212-3	Lab ID: 1210013-09
Sample Matrix: Air	Date Collected: 10/23/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Benzene	0.9	0.3	0.5	J	1	11/15/12 16:18	TO-15/E3 QA230
Benzyl chloride	U	U	0.5		1	11/15/12 16:18	TO-15/E3 QA230
Bromodichloromethane	U	U	0.5		1	11/15/12 16:18	TO-15/E3 QA230
Bromoform	U	U	0.5		1	11/15/12 16:18	TO-15/E3 QA230
Bromoethane	U	U	0.5		1	11/15/12 16:18	TO-15/E3 QA230
1,3-Butadiene	U	U	0.5		1	11/15/12 16:18	TO-15/E3 QA230
2-Butanone	1.7	0.6	0.5		1	11/15/12 16:18	TO-15/E3 QA230
Carbon disulfide	U	U	0.5		1	11/15/12 16:18	TO-15/E3 QA230
Carbon Tetrachloride	U	U	0.5		1	11/15/12 16:18	TO-15/E3 QA230
Chlorobenzene	U	U	0.5		1	11/15/12 16:18	TO-15/E3 QA230
Chloroethane	U	U	0.5		1	11/15/12 16:18	TO-15/E3 QA230
Chloroform	U	U	0.5		1	11/15/12 16:18	TO-15/E3 QA230
Chloromethane	1.4	0.7	0.5		1	11/15/12 16:18	TO-15/E3 QA230
Dibromochloromethane	U	U	0.5		1	11/15/12 16:18	TO-15/E3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	11/15/12 16:18	TO-15/E3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	11/15/12 16:18	TO-15/E3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	11/15/12 16:18	TO-15/E3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	11/15/12 16:18	TO-15/E3 QA230
Dichlorodifluoromethane	2.5	0.5	0.5		1	11/15/12 16:18	TO-15/E3 QA230
1,1-Dichloroethane	U	U	0.5		1	11/15/12 16:18	TO-15/E3 QA230
1,2-Dichloroethane	U	U	0.5		1	11/15/12 16:18	TO-15/E3 QA230
1,1-Dichloroethene	U	U	0.5		1	11/15/12 16:18	TO-15/E3 QA230
cis-1,2-Dichloroethane	U	U	0.5		1	11/15/12 16:18	TO-15/E3 QA230
trans-1,2-Dichloroethane	U	U	0.5		1	11/15/12 16:18	TO-15/E3 QA230
1,2-Dichloropropane	U	U	0.5		1	11/15/12 16:18	TO-15/E3 QA230
cis-1,3-Dichloropropane	U	U	0.5		1	11/15/12 16:18	TO-15/E3 QA230
trans-1,3-Dichloropropane	U	U	0.5	U	1	11/15/12 16:18	TO-15/E3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	11/15/12 16:18	TO-15/E3 QA230
Ethanol	6.5	3.4	0.5	L	1	11/15/12 16:18	TO-15/E3 QA230
Ethylbenzene	U	U	0.5		1	11/15/12 16:18	TO-15/E3 QA230
Freon 113	U	U	0.5		1	11/15/12 16:18	TO-15/E3 QA230
Hexachlorobutadiene	U	U	0.5		1	11/15/12 16:18	TO-15/E3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	11/15/12 16:18	TO-15/E3 QA230
4-Methyl-2-pentanone	U	U	0.5	U	1	11/15/12 16:18	TO-15/E3 QA230
Methylene Chloride	0.6	0.2	0.5	J	1	11/15/12 16:18	TO-15/E3 QA230
Naphthalene	U	U	0.5		1	11/15/12 16:18	TO-15/E3 QA230

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-102212-3	Lab ID: 1210013-09
Sample Matrix: Air	Date Collected: 10/22/2012

Volatile Organic Compounds
Targets (Continued)

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	11/15/12 16:18	TO-15/R3 QA230
Styrene	U	U	0.5	U	1	11/15/12 16:18	TO-15/R3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/15/12 16:18	TO-15/R3 QA230
Tetrachloroethene	U	U	0.5		1	11/15/12 16:18	TO-15/R3 QA230
Toluene	5.1	1.3	0.5		1	11/15/12 16:18	TO-15/R3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	11/15/12 16:18	TO-15/R3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	11/15/12 16:18	TO-15/R3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	11/15/12 16:18	TO-15/R3 QA230
Trichloroethene	U	U	0.5		1	11/15/12 16:18	TO-15/R3 QA230
Trichlorofluoromethane	1.4	0.2	0.5	J	1	11/15/12 16:18	TO-15/R3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/15/12 16:18	TO-15/R3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/15/12 16:18	TO-15/R3 QA230
Vinyl chloride	U	U	0.5		1	11/15/12 16:18	TO-15/R3 QA230
m,p-Xylene	U	U	1.0		1	11/15/12 16:18	TO-15/R3 QA230
o-Xylene	U	U	0.5		1	11/15/12 16:18	TO-15/R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Accuracy Limit	Prepared	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	8.84		88%	80-120	11/15/12	11/15/12 16:18	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-102212	Lab ID: 1210013-10
Sample Matrix: Air	Date Collected: 10/22/2012

**Volatile Organic Compounds
Targets**

Analyte	Esult µg/m ³	Esult ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysisd	Method/ICDH
Benzene	1.1	0.3	0.5	J	1	11/15/12 17:04	TO-15/E3 QA230
Benzyl chloride	U	U	0.5		1	11/15/12 17:04	TO-15/E3 QA230
Bromodichloromethane	U	U	0.5		1	11/15/12 17:04	TO-15/E3 QA230
Bromoforn	U	U	0.5		1	11/15/12 17:04	TO-15/E3 QA230
Bromomethane	U	U	0.5		1	11/15/12 17:04	TO-15/E3 QA230
1,3-Butadiene	U	U	0.5		1	11/15/12 17:04	TO-15/E3 QA230
2-Butanone	1.1	0.4	0.5	J	1	11/15/12 17:04	TO-15/E3 QA230
Carbon disulfide	U	U	0.5		1	11/15/12 17:04	TO-15/E3 QA230
Carbon Tetrachloride	U	U	0.5		1	11/15/12 17:04	TO-15/E3 QA230
Chlorobenzene	U	U	0.5		1	11/15/12 17:04	TO-15/E3 QA230
Chloroethane	U	U	0.5		1	11/15/12 17:04	TO-15/E3 QA230
Chloroform	U	U	0.5		1	11/15/12 17:04	TO-15/E3 QA230
Chloromethane	1.1	0.5	0.5		1	11/15/12 17:04	TO-15/E3 QA230
Dibromochloromethane	U	U	0.5		1	11/15/12 17:04	TO-15/E3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	11/15/12 17:04	TO-15/E3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	11/15/12 17:04	TO-15/E3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	11/15/12 17:04	TO-15/E3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	11/15/12 17:04	TO-15/E3 QA230
Dichlorodifluoromethane	2.9	0.6	0.5		1	11/15/12 17:04	TO-15/E3 QA230
1,1-Dichloroethane	U	U	0.5		1	11/15/12 17:04	TO-15/E3 QA230
1,2-Dichloroethane	U	U	0.5		1	11/15/12 17:04	TO-15/E3 QA230
1,1-Dichloroethene	U	U	0.5		1	11/15/12 17:04	TO-15/E3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	11/15/12 17:04	TO-15/E3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	11/15/12 17:04	TO-15/E3 QA230
1,2-Dichloropropane	U	U	0.5		1	11/15/12 17:04	TO-15/E3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	11/15/12 17:04	TO-15/E3 QA230
trans-1,3-Dichloropropene	U	U	0.5	U	1	11/15/12 17:04	TO-15/E3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	11/15/12 17:04	TO-15/E3 QA230
Ethanol	8.4	4.4	0.5	L	1	11/15/12 17:04	TO-15/E3 QA230
Ethylbenzene	U	U	0.5		1	11/15/12 17:04	TO-15/E3 QA230
Freon 113	U	U	0.5		1	11/15/12 17:04	TO-15/E3 QA230
Hexachlorobutadiene	U	U	0.5		1	11/15/12 17:04	TO-15/E3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	11/15/12 17:04	TO-15/E3 QA230
4-Methyl-2-pentanone	U	U	0.5	U	1	11/15/12 17:04	TO-15/E3 QA230
Methylene Chloride	0.6	0.2	0.5	J	1	11/15/12 17:04	TO-15/E3 QA230
Naphthalene	U	U	0.5		1	11/15/12 17:04	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-102212	Lab ID: 1210013-10
Sample Matrix: Air	Date Collected: 10/22/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF#
Propylene	U	U	0.5		1	11/15/12 17:04	TO-15/RS QA230
Styrene	U	U	0.5	U	1	11/15/12 17:04	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/15/12 17:04	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	11/15/12 17:04	TO-15/RS QA230
Toluene	2.2	0.6	0.5		1	11/15/12 17:04	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	11/15/12 17:04	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	11/15/12 17:04	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	11/15/12 17:04	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	11/15/12 17:04	TO-15/RS QA230
Trichlorofluoromethane	1.4	0.2	0.5	J	1	11/15/12 17:04	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/15/12 17:04	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/15/12 17:04	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	11/15/12 17:04	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	11/15/12 17:04	TO-15/RS QA230
o-Xylene	U	U	0.5		1	11/15/12 17:04	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCDF#
<i>Surrogate: Bromofluorobenzene</i>	8.80		88%	80-120	11/15/12	11/15/12 17:04	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-102512-1	Lab ID: 1210013-11
Sample Matrix: Air	Date Collected: 10/25/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM
Benzene	1.1	0.4	0.5	J	1	11/15/12 17:48	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	11/15/12 17:48	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	11/15/12 17:48	TO-15/RS QA230
Bromofom	U	U	0.5		1	11/15/12 17:48	TO-15/RS QA230
Bromomethane	U	U	0.5		1	11/15/12 17:48	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	11/15/12 17:48	TO-15/RS QA230
2-Butanone	2.0	0.7	0.5		1	11/15/12 17:48	TO-15/RS QA230
Carbon disulfide	U	U	0.5		1	11/15/12 17:48	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	11/15/12 17:48	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	11/15/12 17:48	TO-15/RS QA230
Chloroethane	U	U	0.5		1	11/15/12 17:48	TO-15/RS QA230
Chloroform	U	U	0.5		1	11/15/12 17:48	TO-15/RS QA230
Chloromethane	1.1	0.5	0.5		1	11/15/12 17:48	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	11/15/12 17:48	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	11/15/12 17:48	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	11/15/12 17:48	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	11/15/12 17:48	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	11/15/12 17:48	TO-15/RS QA230
Dichlorodifluoromethane	2.5	0.5	0.5		1	11/15/12 17:48	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	11/15/12 17:48	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	11/15/12 17:48	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	11/15/12 17:48	TO-15/RS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	11/15/12 17:48	TO-15/RS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	11/15/12 17:48	TO-15/RS QA230
1,2-Dichloropropene	U	U	0.5		1	11/15/12 17:48	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	11/15/12 17:48	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5	U	1	11/15/12 17:48	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	11/15/12 17:48	TO-15/RS QA230
Ethanol	138	73	0.5	L	1	11/15/12 17:48	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	11/15/12 17:48	TO-15/RS QA230
Freon 113	U	U	0.5		1	11/15/12 17:48	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	11/15/12 17:48	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	11/15/12 17:48	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5	U	1	11/15/12 17:48	TO-15/RS QA230
Methylene Chloride	0.6	0.2	0.5	J	1	11/15/12 17:48	TO-15/RS QA230
Naphthalene	U	U	0.5		1	11/15/12 17:48	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-102512-1	Lab ID: 1210013-11
Sample Matrix: Air	Date Collected: 10/25/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF
Propylene	U	U	0.5		1	11/15/12 17:48	TO-15/E3 QA230
Styrene	U	U	0.5	U	1	11/15/12 17:48	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/15/12 17:48	TO-15/E3 QA230
Tetrachloroethene	U	U	0.5		1	11/15/12 17:48	TO-15/E3 QA230
Toluene	141	3.7	0.5		1	11/15/12 17:48	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	11/15/12 17:48	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	11/15/12 17:48	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	11/15/12 17:48	TO-15/E3 QA230
Trichloroethene	U	U	0.5		1	11/15/12 17:48	TO-15/E3 QA230
Trichlorofluoromethane	1.4	0.2	0.5	J	1	11/15/12 17:48	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/15/12 17:48	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/15/12 17:48	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	11/15/12 17:48	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	11/15/12 17:48	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	11/15/12 17:48	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCDF
<i>Surrogate: Bromofluorobenzene</i>	8.69		87%	80-120	11/15/12	11/15/12 17:48	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



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 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5390



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-102512-2	Lab ID: 1210013-12
Sample Matrix: Air	Date Collected: 10/25/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Benzene	1.0	0.3	0.5	J	1	11/15/12 18:34	TO-15/R3 QA230
Benzyl chloride	U	U	0.5		1	11/15/12 18:34	TO-15/R3 QA230
Bromodichloromethane	U	U	0.5		1	11/15/12 18:34	TO-15/R3 QA230
Bromofom	U	U	0.5		1	11/15/12 18:34	TO-15/R3 QA230
Bromomethane	U	U	0.5		1	11/15/12 18:34	TO-15/R3 QA230
1,3-Butadiene	U	U	0.5		1	11/15/12 18:34	TO-15/R3 QA230
2-Butanone	1.4	0.5	0.5		1	11/15/12 18:34	TO-15/R3 QA230
Carbon disulfide	U	U	0.5		1	11/15/12 18:34	TO-15/R3 QA230
Carbon Tetrachloride	U	U	0.5		1	11/15/12 18:34	TO-15/R3 QA230
Chlorobenzene	U	U	0.5		1	11/15/12 18:34	TO-15/R3 QA230
Chloroethane	U	U	0.5		1	11/15/12 18:34	TO-15/R3 QA230
Chloroform	U	U	0.5		1	11/15/12 18:34	TO-15/R3 QA230
Chloromethane	1.2	0.6	0.5		1	11/15/12 18:34	TO-15/R3 QA230
Dibromochloromethane	U	U	0.5		1	11/15/12 18:34	TO-15/R3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	11/15/12 18:34	TO-15/R3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	11/15/12 18:34	TO-15/R3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	11/15/12 18:34	TO-15/R3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	11/15/12 18:34	TO-15/R3 QA230
Dichlorodifluoromethane	2.4	0.5	0.5		1	11/15/12 18:34	TO-15/R3 QA230
1,1-Dichloroethane	U	U	0.5		1	11/15/12 18:34	TO-15/R3 QA230
1,2-Dichloroethane	U	U	0.5		1	11/15/12 18:34	TO-15/R3 QA230
1,1-Dichloroethene	U	U	0.5		1	11/15/12 18:34	TO-15/R3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	11/15/12 18:34	TO-15/R3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	11/15/12 18:34	TO-15/R3 QA230
1,2-Dichloropropane	U	U	0.5		1	11/15/12 18:34	TO-15/R3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	11/15/12 18:34	TO-15/R3 QA230
trans-1,3-Dichloropropene	U	U	0.5	UF	1	11/15/12 18:34	TO-15/R3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	11/15/12 18:34	TO-15/R3 QA230
Ethanol	16.9	8.9	0.5	L	1	11/15/12 18:34	TO-15/R3 QA230
Ethylbenzene	U	U	0.5		1	11/15/12 18:34	TO-15/R3 QA230
Heon 113	U	U	0.5		1	11/15/12 18:34	TO-15/R3 QA230
Hexachlorobutadiene	U	U	0.5		1	11/15/12 18:34	TO-15/R3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	11/15/12 18:34	TO-15/R3 QA230
4-Methyl-2-pentanone	U	U	0.5	UF	1	11/15/12 18:34	TO-15/R3 QA230
Methylene Chloride	0.5	0.2	0.5	J	1	11/15/12 18:34	TO-15/R3 QA230
Naphthalene	U	U	0.5		1	11/15/12 18:34	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5350



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-102512-2	Lab ID: 1210013-12
Sample Matrix: Air	Date Collected: 10/25/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF
Propylene	U	U	0.5		1	11/15/12 18 34	TO-15/R3 QA230
Styrene	U	U	0.5	U	1	11/15/12 18 34	TO-15/R3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/15/12 18 34	TO-15/R3 QA230
Tetrachloroethene	U	U	0.5		1	11/15/12 18 34	TO-15/R3 QA230
Toluene	5.0	13	0.5		1	11/15/12 18 34	TO-15/R3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	11/15/12 18 34	TO-15/R3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	11/15/12 18 34	TO-15/R3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	11/15/12 18 34	TO-15/R3 QA230
Trichloroethene	U	U	0.5		1	11/15/12 18 34	TO-15/R3 QA230
Trichlorofluoromethane	1.3	0.2	0.5	J	1	11/15/12 18 34	TO-15/R3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/15/12 18 34	TO-15/R3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/15/12 18 34	TO-15/R3 QA230
Vinyl chloride	U	U	0.5		1	11/15/12 18 34	TO-15/R3 QA230
m,p-Xylene	U	U	1.0		1	11/15/12 18 34	TO-15/R3 QA230
o-Xylene	U	U	0.5		1	11/15/12 18 34	TO-15/R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Prepared	Analysed	Method/SCDF
<i>Surrogate: Bromofluorobenzene</i>	8.67		87%	80-120	11/15/12	11/15/12 18 34	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



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Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-102512-2C0	Lab ID: 1210013-13
Sample Matrix: Air	Date Collected: 10/25/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SOP#
Benzene	1.4	0.4	0.5	J	1	11/15/12 19:19	TO-15/E3 QA230
Benzyl chloride	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230
Bromodichloromethane	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230
Bromoforn	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230
Bromomethane	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230
1,3-Butadiene	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230
2-Butanone	1.8	0.6	0.5		1	11/15/12 19:19	TO-15/E3 QA230
Carbon disulfide	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230
Carbon Tetrachloride	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230
Chlorobenzene	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230
Chloroethane	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230
Chloroform	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230
Chloromethane	1.7	0.8	0.5		1	11/15/12 19:19	TO-15/E3 QA230
Dibromochloromethane	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230
Dichlorodifluoromethane	2.8	0.6	0.5		1	11/15/12 19:19	TO-15/E3 QA230
1,1-Dichloroethane	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230
1,2-Dichloroethane	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230
1,1-Dichloroethene	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230
cis-1,2-Dichloroethane	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230
trans-1,2-Dichloroethane	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230
1,2-Dichloropropane	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230
trans-1,3-Dichloropropene	U	U	0.5	UJ	1	11/15/12 19:19	TO-15/E3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230
Ethanol	19.2	10.1	0.5	L	1	11/15/12 19:19	TO-15/E3 QA230
Ethylbenzene	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230
Freon 113	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230
Hexachlorobutadiene	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230
4-Methyl-2-pentanone	U	U	0.5	UJ	1	11/15/12 19:19	TO-15/E3 QA230
Methylene Chloride	0.5	0.2	0.5	J	1	11/15/12 19:19	TO-15/E3 QA230
Naphthalene	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-102512-2C0	Lab ID: 1210013-13
Sample Matrix: Air	Date Collected: 10/25/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230
Styrene	U	U	0.5	U	1	11/15/12 19:19	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230
Tetrachloroethene	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230
Toluene	160	4.2	0.5		1	11/15/12 19:19	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230
Trichloroethene	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230
Trichlorofluoromethane	1.4	0.2	0.5	J	1	11/15/12 19:19	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	11/15/12 19:19	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	11/15/12 19:19	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	8.75		88%	80-120	11/15/12	11/15/12 19:19	70-15/E3 QA 230

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-102512-3	Lab ID: 1210013-14
Sample Matrix: Air	Date Collected: 10/25/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/SCDW
Benzene	1.3	0.4	0.5	J	1	11/15/12 2006	TO-15/R3 QA230
Benzyl chloride	U	U	0.5		1	11/15/12 2006	TO-15/R3 QA230
Bromodichloromethane	U	U	0.5		1	11/15/12 2006	TO-15/R3 QA230
Bromofom	U	U	0.5		1	11/15/12 2006	TO-15/R3 QA230
Bromomethane	U	U	0.5		1	11/15/12 2006	TO-15/R3 QA230
1,3-Butadiene	U	U	0.5		1	11/15/12 2006	TO-15/R3 QA230
2-Butanone	2.0	0.7	0.5		1	11/15/12 2006	TO-15/R3 QA230
Carbon disulfide	U	U	0.5		1	11/15/12 2006	TO-15/R3 QA230
Carbon Tetrachloride	U	U	0.5		1	11/15/12 2006	TO-15/R3 QA230
Chlorobenzene	U	U	0.5		1	11/15/12 2006	TO-15/R3 QA230
Chloroethane	U	U	0.5		1	11/15/12 2006	TO-15/R3 QA230
Chloroform	U	U	0.5		1	11/15/12 2006	TO-15/R3 QA230
Chloromethane	1.2	0.6	0.5		1	11/15/12 2006	TO-15/R3 QA230
Dibromochloromethane	U	U	0.5		1	11/15/12 2006	TO-15/R3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	11/15/12 2006	TO-15/R3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	11/15/12 2006	TO-15/R3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	11/15/12 2006	TO-15/R3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	11/15/12 2006	TO-15/R3 QA230
Dichlorodifluoromethane	2.6	0.5	0.5		1	11/15/12 2006	TO-15/R3 QA230
1,1-Dichloroethane	U	U	0.5		1	11/15/12 2006	TO-15/R3 QA230
1,2-Dichloroethane	U	U	0.5		1	11/15/12 2006	TO-15/R3 QA230
1,1-Dichloroethene	U	U	0.5		1	11/15/12 2006	TO-15/R3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	11/15/12 2006	TO-15/R3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	11/15/12 2006	TO-15/R3 QA230
1,2-Dichloropropane	U	U	0.5		1	11/15/12 2006	TO-15/R3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	11/15/12 2006	TO-15/R3 QA230
trans-1,3-Dichloropropene	U	U	0.5	U	1	11/15/12 2006	TO-15/R3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	11/15/12 2006	TO-15/R3 QA230
Ethanol	14.2	7.5	0.5	L	1	11/15/12 2006	TO-15/R3 QA230
Ethylbenzene	U	U	0.5		1	11/15/12 2006	TO-15/R3 QA230
Fluon 113	U	U	0.5		1	11/15/12 2006	TO-15/R3 QA230
Hexachlorobutadiene	U	U	0.5		1	11/15/12 2006	TO-15/R3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	11/15/12 2006	TO-15/R3 QA230
4-Methyl-2-pentanone	U	U	0.5	U	1	11/15/12 2006	TO-15/R3 QA230
Methylene Chloride	0.6	0.2	0.5	J	1	11/15/12 2006	TO-15/R3 QA230
Naphthalene	U	U	0.5		1	11/15/12 2006	TO-15/R3 QA230

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-102512-3	Lab ID: 1210013-14
Sample Matrix: Air	Date Collected: 10/25/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	11/15/12 20:06	TO-15/E3 QA230
Styrene	U	U	0.5	U	1	11/15/12 20:06	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/15/12 20:06	TO-15/E3 QA230
Tetrachloroethene	U	U	0.5		1	11/15/12 20:06	TO-15/E3 QA230
Toluene	188	50	0.5		1	11/15/12 20:06	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	11/15/12 20:06	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	11/15/12 20:06	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	11/15/12 20:06	TO-15/E3 QA230
Trichloroethene	U	U	0.5		1	11/15/12 20:06	TO-15/E3 QA230
Trichlorofluoromethane	1.4	0.2	0.5	J	1	11/15/12 20:06	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/15/12 20:06	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/15/12 20:06	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	11/15/12 20:06	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	11/15/12 20:06	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	11/15/12 20:06	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limits	Expanded	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	8.68		87%	80-120	11/15/12	11/15/12 20:06	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-102812-1	Lab ID: 1210013-15
Sample Matrix: Air	Date Collected: 10/28/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/DO#
Benzene	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
Bromoforn	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
Bromomethane	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
2-Butanone	1.1	0.4	0.5	J	1	11/15/12 20:49	TO-15/RS QA230
Carbon disulfide	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
Chloroethane	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
Chloroform	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
Chloromethane	0.9	0.4	0.5	J	1	11/15/12 20:49	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
Dichlorodifluoromethane	2.5	0.5	0.5		1	11/15/12 20:49	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
1,2-Dichloropropane	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5	U	1	11/15/12 20:49	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
Ethanol	2.8	1.5	0.5	L	1	11/15/12 20:49	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
Freon 113	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5	U	1	11/15/12 20:49	TO-15/RS QA230
Methylene Chloride	0.6	0.2	0.5	J	1	11/15/12 20:49	TO-15/RS QA230
Naphthalene	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-102812-1	Lab ID: 1210013-15
Sample Matrix: Air	Date Collected: 10/28/2012

Volatile Organic Compounds
 Targets (Continued)

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF
Propylene	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
Styrene	U	U	0.5	U	1	11/15/12 20:49	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
Toluene	1.6	0.4	0.5	J	1	11/15/12 20:49	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
Trichlorofluoromethane	1.4	0.2	0.5	J	1	11/15/12 20:49	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	11/15/12 20:49	TO-15/RS QA230
o-Xylene	U	U	0.5		1	11/15/12 20:49	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCDF
<i>Surrogate: Bromofluorobenzene</i>	8.68		87%	80-120	11/15/12	11/15/12 20:49	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-102812-2	Lab ID: 1210013-16
Sample Matrix: Air	Date Collected: 10/28/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/SCM#
Benzene	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
Bromoform	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
Bromoethane	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
2-Butanone	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
Carbon disulfide	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
Chloroethane	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
Chloroform	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
Chloromethane	0.9	0.4	0.5	J	1	11/15/12 22 23	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
Dichlorodifluoromethane	2.5	0.5	0.5		1	11/15/12 22 23	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
1,2-Dichloropropene	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5	U	1	11/15/12 22 23	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
Ethanol	1.6	0.8	0.5	L	1	11/15/12 22 23	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
Freon 113	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5	U	1	11/15/12 22 23	TO-15/RS QA230
Methylene Chloride	0.6	0.2	0.5	J	1	11/15/12 22 23	TO-15/RS QA230
Naphthalene	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
Propylene	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-102812-2	Lab ID: 1210013-16
Sample Matrix: Air	Date Collected: 10/28/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Styrene	U	U	0.5	U	1	11/15/12 22 23	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
Toluene	2.1	0.5	0.5		1	11/15/12 22 23	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
Trichlorofluoromethane	1.4	0.2	0.5	J	1	11/15/12 22 23	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	11/15/12 22 23	TO-15/RS QA230
o-Xylene	U	U	0.5		1	11/15/12 22 23	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limits	Expanded	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	8.62		86%	80-120	11/15/12	11/15/12 22 23	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5350



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-102812-2C0	Lab ID: 1210013-17
Sample Matrix: Air	Date Collected: 10/28/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualities	Dilution	Analysed	Method/SCM#
Benzene	U	U	0.5		1	11/06/12 01:12	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	11/06/12 01:12	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	11/06/12 01:12	TO-15/RS QA230
Bromofom	U	U	0.5		1	11/06/12 01:12	TO-15/RS QA230
Bromomethane	U	U	0.5		1	11/06/12 01:12	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	11/06/12 01:12	TO-15/RS QA230
2-Butanone	U	U	0.5		1	11/06/12 01:12	TO-15/RS QA230
Carbon disulfide	U	U	0.5		1	11/06/12 01:12	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	11/06/12 01:12	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	11/06/12 01:12	TO-15/RS QA230
Chloroethane	U	U	0.5		1	11/06/12 01:12	TO-15/RS QA230
Chloroform	U	U	0.5		1	11/06/12 01:12	TO-15/RS QA230
Chloromethane	0.8	0.4	0.5	L, J	1	11/06/12 01:12	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	11/06/12 01:12	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	11/06/12 01:12	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	11/06/12 01:12	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	11/06/12 01:12	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	11/06/12 01:12	TO-15/RS QA230
Dichlorodifluoromethane	2.4	0.5	0.5		1	11/06/12 01:12	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	11/06/12 01:12	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	11/06/12 01:12	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	11/06/12 01:12	TO-15/RS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	11/06/12 01:12	TO-15/RS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	11/06/12 01:12	TO-15/RS QA230
1,2-Dichloropropane	U	U	0.5		1	11/06/12 01:12	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	11/06/12 01:12	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5	U	1	11/06/12 01:12	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	11/06/12 01:12	TO-15/RS QA230
Ethanol	2.2	1.1	0.5	L	1	11/06/12 01:12	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	11/06/12 01:12	TO-15/RS QA230
Freon 113	U	U	0.5		1	11/06/12 01:12	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	11/06/12 01:12	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	11/06/12 01:12	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5	U	1	11/06/12 01:12	TO-15/RS QA230
Methylene Chloride	0.5	0.2	0.5	J	1	11/06/12 01:12	TO-15/RS QA230
Naphthalene	U	U	0.5		1	11/06/12 01:12	TO-15/RS QA230
Propylene	U	U	0.5		1	11/06/12 01:12	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5390



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-102812-2C0	Lab ID: 1210013-17
Sample Matrix: Air	Date Collected: 10/28/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifies	Dilution	Analysed	Method/SCM#
Styrene	U	U	0.5	U	1	11/06/12 01:12	TO-15/F3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/06/12 01:12	TO-15/F3 QA230
Tetrachloroethane	U	U	0.5		1	11/06/12 01:12	TO-15/F3 QA230
Toluene	1.1	0.3	0.5	J	1	11/06/12 01:12	TO-15/F3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	11/06/12 01:12	TO-15/F3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	11/06/12 01:12	TO-15/F3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	11/06/12 01:12	TO-15/F3 QA230
Trichloroethane	U	U	0.5		1	11/06/12 01:12	TO-15/F3 QA230
Trichlorofluoromethane	1.4	0.2	0.5	J	1	11/06/12 01:12	TO-15/F3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/06/12 01:12	TO-15/F3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/06/12 01:12	TO-15/F3 QA230
Vinyl chloride	U	U	0.5		1	11/06/12 01:12	TO-15/F3 QA230
m,p-Xylene	U	U	1.0		1	11/06/12 01:12	TO-15/F3 QA230
o-Xylene	U	U	0.5		1	11/06/12 01:12	TO-15/F3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifies	%Recovery Limit	Expanded	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	8.61		86 % 80-120	11/15/12	11/06/12 01:12	TO-15/F3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-102812-3	Lab ID: 1210013-18
Sample Matrix: Air	Date Collected: 10/28/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/SCM#
Benzene	U	U	0.5		1	11/15/12 23:06	TO-15/E3 QA230
Benzyl chloride	U	U	0.5		1	11/15/12 23:06	TO-15/E3 QA230
Bromodichloromethane	U	U	0.5		1	11/15/12 23:06	TO-15/E3 QA230
Bromoform	U	U	0.5		1	11/15/12 23:06	TO-15/E3 QA230
Bromoethane	U	U	0.5		1	11/15/12 23:06	TO-15/E3 QA230
1,3-Butadiene	U	U	0.5		1	11/15/12 23:06	TO-15/E3 QA230
2-Butanone	U	U	0.5		1	11/15/12 23:06	TO-15/E3 QA230
Carbon disulfide	U	U	0.5		1	11/15/12 23:06	TO-15/E3 QA230
Carbon Tetrachloride	U	U	0.5		1	11/15/12 23:06	TO-15/E3 QA230
Chlorobenzene	U	U	0.5		1	11/15/12 23:06	TO-15/E3 QA230
Chloroethane	U	U	0.5		1	11/15/12 23:06	TO-15/E3 QA230
Chloroform	U	U	0.5		1	11/15/12 23:06	TO-15/E3 QA230
Chloromethane	0.8	0.4	0.5	J	1	11/15/12 23:06	TO-15/E3 QA230
Dibromochloromethane	U	U	0.5		1	11/15/12 23:06	TO-15/E3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	11/15/12 23:06	TO-15/E3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	11/15/12 23:06	TO-15/E3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	11/15/12 23:06	TO-15/E3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	11/15/12 23:06	TO-15/E3 QA230
Dichlorodifluoromethane	2.4	0.5	0.5		1	11/15/12 23:06	TO-15/E3 QA230
1,1-Dichloroethane	U	U	0.5		1	11/15/12 23:06	TO-15/E3 QA230
1,2-Dichloroethane	U	U	0.5		1	11/15/12 23:06	TO-15/E3 QA230
1,1-Dichloroethene	U	U	0.5		1	11/15/12 23:06	TO-15/E3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	11/15/12 23:06	TO-15/E3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	11/15/12 23:06	TO-15/E3 QA230
1,2-Dichloropropene	U	U	0.5		1	11/15/12 23:06	TO-15/E3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	11/15/12 23:06	TO-15/E3 QA230
trans-1,3-Dichloropropene	U	U	0.5	U	1	11/15/12 23:06	TO-15/E3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	11/15/12 23:06	TO-15/E3 QA230
Ethanol	1.3	0.7	0.5	L	1	11/15/12 23:06	TO-15/E3 QA230
Ethylbenzene	U	U	0.5		1	11/15/12 23:06	TO-15/E3 QA230
Heon 113	U	U	0.5		1	11/15/12 23:06	TO-15/E3 QA230
Hexachlorobutadiene	U	U	0.5		1	11/15/12 23:06	TO-15/E3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	11/15/12 23:06	TO-15/E3 QA230
4-Methyl-2-pentanone	U	U	0.5	U	1	11/15/12 23:06	TO-15/E3 QA230
Methylene Chloride	0.6	0.2	0.5	J	1	11/15/12 23:06	TO-15/E3 QA230
Naphthalene	U	U	0.5		1	11/15/12 23:06	TO-15/E3 QA230
Propylene	U	U	0.5		1	11/15/12 23:06	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-102812-3	Lab ID: 1210013-18
Sample Matrix: Air	Date Collected: 10/28/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Styrene	U	U	0.5	U	1	11/15/12 23:06	TO-15/R3 Q4230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/15/12 23:06	TO-15/R3 Q4230
Tetrachloroethene	U	U	0.5		1	11/15/12 23:06	TO-15/R3 Q4230
Toluene	1.3	0.3	0.5	J	1	11/15/12 23:06	TO-15/R3 Q4230
1,2,4-Trichlorobenzene	U	U	0.5		1	11/15/12 23:06	TO-15/R3 Q4230
1,1,1-Trichloroethane	U	U	0.5		1	11/15/12 23:06	TO-15/R3 Q4230
1,1,2-Trichloroethane	U	U	0.5		1	11/15/12 23:06	TO-15/R3 Q4230
Trichloroethene	U	U	0.5		1	11/15/12 23:06	TO-15/R3 Q4230
Trichlorofluoromethane	1.4	0.2	0.5	J	1	11/15/12 23:06	TO-15/R3 Q4230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/15/12 23:06	TO-15/R3 Q4230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/15/12 23:06	TO-15/R3 Q4230
Vinyl chloride	U	U	0.5		1	11/15/12 23:06	TO-15/R3 Q4230
m,p-Xylene	U	U	1.0		1	11/15/12 23:06	TO-15/R3 Q4230
o-Xylene	U	U	0.5		1	11/15/12 23:06	TO-15/R3 Q4230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	8.55		86%	80-120	11/15/12	11/15/12 23:06	TO-15/R3 Q4230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



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 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-102512	Lab ID: 1210013-19
Sample Matrix: Air	Date Collected: 10/25/2012

Volatile Organic Compounds
 Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/SD#
Benzene	0.8	0.2	0.5	J	1	11/15/12 23:47	TO-15/FS QA230
Benzyl chloride	U	U	0.5		1	11/15/12 23:47	TO-15/FS QA230
Bromodichloromethane	U	U	0.5		1	11/15/12 23:47	TO-15/FS QA230
Bromoform	U	U	0.5		1	11/15/12 23:47	TO-15/FS QA230
Bromoethane	U	U	0.5		1	11/15/12 23:47	TO-15/FS QA230
1,3-Butadiene	U	U	0.5		1	11/15/12 23:47	TO-15/FS QA230
2-Butanone	1.1	0.4	0.5	J	1	11/15/12 23:47	TO-15/FS QA230
Carbon disulfide	U	U	0.5		1	11/15/12 23:47	TO-15/FS QA230
Carbon Tetrachloride	U	U	0.5		1	11/15/12 23:47	TO-15/FS QA230
Chlorobenzene	U	U	0.5		1	11/15/12 23:47	TO-15/FS QA230
Chloroethane	U	U	0.5		1	11/15/12 23:47	TO-15/FS QA230
Chloroform	U	U	0.5		1	11/15/12 23:47	TO-15/FS QA230
Chloromethane	1.0	0.5	0.5		1	11/15/12 23:47	TO-15/FS QA230
Dibromochloromethane	U	U	0.5		1	11/15/12 23:47	TO-15/FS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	11/15/12 23:47	TO-15/FS QA230
1,2-Dichlorobenzene	U	U	0.5		1	11/15/12 23:47	TO-15/FS QA230
1,3-Dichlorobenzene	U	U	0.5		1	11/15/12 23:47	TO-15/FS QA230
1,4-Dichlorobenzene	U	U	0.5		1	11/15/12 23:47	TO-15/FS QA230
Dichlorodifluoromethane	2.4	0.5	0.5		1	11/15/12 23:47	TO-15/FS QA230
1,1-Dichloroethane	U	U	0.5		1	11/15/12 23:47	TO-15/FS QA230
1,2-Dichloroethane	U	U	0.5		1	11/15/12 23:47	TO-15/FS QA230
1,1-Dichloroethene	U	U	0.5		1	11/15/12 23:47	TO-15/FS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	11/15/12 23:47	TO-15/FS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	11/15/12 23:47	TO-15/FS QA230
1,2-Dichloropropane	U	U	0.5		1	11/15/12 23:47	TO-15/FS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	11/15/12 23:47	TO-15/FS QA230
trans-1,3-Dichloropropene	U	U	0.5	U	1	11/15/12 23:47	TO-15/FS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	11/15/12 23:47	TO-15/FS QA230
Ethanol	11.2	5.9	0.5	L	1	11/15/12 23:47	TO-15/FS QA230
Ethylbenzene	U	U	0.5		1	11/15/12 23:47	TO-15/FS QA230
Freon 113	U	U	0.5		1	11/15/12 23:47	TO-15/FS QA230
Hexachlorobutadiene	U	U	0.5		1	11/15/12 23:47	TO-15/FS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	11/15/12 23:47	TO-15/FS QA230
4-Methyl-2-pentanone	U	U	0.5	U	1	11/15/12 23:47	TO-15/FS QA230
Methylene Chloride	0.6	0.2	0.5	J	1	11/15/12 23:47	TO-15/FS QA230
Naphthalene	U	U	0.5		1	11/15/12 23:47	TO-15/FS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-102512	Lab ID: 1210013-19
Sample Matrix: Air	Date Collected: 10/25/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/REF
Propylene	U	U	0.5		1	11/15/12 23:47	TO-15/RS QA230
Styrene	U	U	0.5	U	1	11/15/12 23:47	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/15/12 23:47	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	11/15/12 23:47	TO-15/RS QA230
Toluene	4.6	1.2	0.5		1	11/15/12 23:47	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	11/15/12 23:47	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	11/15/12 23:47	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	11/15/12 23:47	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	11/15/12 23:47	TO-15/RS QA230
Trichlorofluoromethane	1.3	0.2	0.5	J	1	11/15/12 23:47	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/15/12 23:47	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/15/12 23:47	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	11/15/12 23:47	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	11/15/12 23:47	TO-15/RS QA230
o-Xylene	U	U	0.5		1	11/15/12 23:47	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limits	Expanded	Analysed	Method/REF
<i>Surrogate: Bromofluorobenzene</i>	8.61		86%	80-120	11/15/12	11/15/12 23:47	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-102812	Lab ID: 1210013-20
Sample Matrix: Air	Date Collected: 10/28/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/SCM#
Benzene	U	U	0.5		1	11/06/12 00:30	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	11/06/12 00:30	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	11/06/12 00:30	TO-15/RS QA230
Bromoform	U	U	0.5		1	11/06/12 00:30	TO-15/RS QA230
Bromoethane	U	U	0.5		1	11/06/12 00:30	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	11/06/12 00:30	TO-15/RS QA230
2-Butanone	U	U	0.5		1	11/06/12 00:30	TO-15/RS QA230
Carbon disulfide	U	U	0.5		1	11/06/12 00:30	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	11/06/12 00:30	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	11/06/12 00:30	TO-15/RS QA230
Chloroethane	U	U	0.5		1	11/06/12 00:30	TO-15/RS QA230
Chloroform	U	U	0.5		1	11/06/12 00:30	TO-15/RS QA230
Chloromethane	0.9	0.4	0.5	J	1	11/06/12 00:30	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	11/06/12 00:30	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	11/06/12 00:30	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	11/06/12 00:30	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	11/06/12 00:30	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	11/06/12 00:30	TO-15/RS QA230
Dichlorodifluoromethane	2.5	0.5	0.5		1	11/06/12 00:30	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	11/06/12 00:30	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	11/06/12 00:30	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	11/06/12 00:30	TO-15/RS QA230
cis-1,2-Dichloroethane	U	U	0.5		1	11/06/12 00:30	TO-15/RS QA230
trans-1,2-Dichloroethane	U	U	0.5		1	11/06/12 00:30	TO-15/RS QA230
1,2-Dichloropropane	U	U	0.5		1	11/06/12 00:30	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	11/06/12 00:30	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5	U	1	11/06/12 00:30	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	11/06/12 00:30	TO-15/RS QA230
Ethanol	2.8	1.4	0.5	L	1	11/06/12 00:30	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	11/06/12 00:30	TO-15/RS QA230
Freon 113	U	U	0.5		1	11/06/12 00:30	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	11/06/12 00:30	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	11/06/12 00:30	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5	U	1	11/06/12 00:30	TO-15/RS QA230
Methylene Chloride	0.6	0.2	0.5	J	1	11/06/12 00:30	TO-15/RS QA230
Naphthalene	U	U	0.5		1	11/06/12 00:30	TO-15/RS QA230
Propylene	U	U	0.5		1	11/06/12 00:30	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-102812	Lab ID: 1210013-20
Sample Matrix: Air	Date Collected: 10/28/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Styrene	U	U	0.5	U	1	11/16/12 00:30	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/16/12 00:30	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	11/16/12 00:30	TO-15/RS QA230
Toluene	0.8	0.2	0.5	J	1	11/16/12 00:30	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	11/16/12 00:30	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	11/16/12 00:30	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	11/16/12 00:30	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	11/16/12 00:30	TO-15/RS QA230
Trichlorofluoromethane	1.4	0.2	0.5	J	1	11/16/12 00:30	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/16/12 00:30	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/16/12 00:30	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	11/16/12 00:30	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	11/16/12 00:30	TO-15/RS QA230
o-Xylene	U	U	0.5		1	11/16/12 00:30	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Prepared	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	8.55		86%	80-120	11/15/12	11/16/12 00:30	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5350



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-103112-1	Lab ID: 1211005-01
Sample Matrix: Air	Date Collected: 10/31/2012

Volatile Organic Compounds
 Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/SCM#
Benzene	0.6	0.2	0.5	J	1	11/29/12 17:27	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	11/29/12 17:27	TO-15/RS QA230
Bromochloromethane	U	U	0.5		1	11/29/12 17:27	TO-15/RS QA230
Bromofom	U	U	0.5		1	11/29/12 17:27	TO-15/RS QA230
Bromomethane	U	U	0.5		1	11/29/12 17:27	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	11/29/12 17:27	TO-15/RS QA230
2-Butanone	U	U	0.5		1	11/29/12 17:27	TO-15/RS QA230
Carbon disulfide	U	U	0.5		1	11/29/12 17:27	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	11/29/12 17:27	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	11/29/12 17:27	TO-15/RS QA230
Chloroethane	U	U	0.5		1	11/29/12 17:27	TO-15/RS QA230
Chlorofom	U	U	0.5		1	11/29/12 17:27	TO-15/RS QA230
Chloromethane	1.3	0.6	0.5		1	11/29/12 17:27	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	11/29/12 17:27	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	11/29/12 17:27	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	11/29/12 17:27	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	11/29/12 17:27	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	11/29/12 17:27	TO-15/RS QA230
Dichlorodifluoromethane	3.1	0.6	0.5		1	11/29/12 17:27	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	11/29/12 17:27	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	11/29/12 17:27	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	11/29/12 17:27	TO-15/RS QA230
cis-1,2-Dichloroethane	U	U	0.5		1	11/29/12 17:27	TO-15/RS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	11/29/12 17:27	TO-15/RS QA230
1,2-Dichloropropene	U	U	0.5		1	11/29/12 17:27	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	11/29/12 17:27	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	11/29/12 17:27	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	11/29/12 17:27	TO-15/RS QA230
Ethanol	2.5	1.3	0.5		1	11/29/12 17:27	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	11/29/12 17:27	TO-15/RS QA230
EtOH 113	U	U	0.5		1	11/29/12 17:27	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	11/29/12 17:27	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	11/29/12 17:27	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	11/29/12 17:27	TO-15/RS QA230
Methylene Chloride	0.6	0.2	0.5	J	1	11/29/12 17:27	TO-15/RS QA230
Naphthalene	U	U	0.5		1	11/29/12 17:27	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-103112-1	Lab ID: 1211005-01
Sample Matrix: Air	Date Collected: 10/31/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	11/29/12 17 27	TO-15/RS QA230
Styrene	U	U	0.5		1	11/29/12 17 27	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/29/12 17 27	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	11/29/12 17 27	TO-15/RS QA230
Toluene	1.7	0.4	0.5	J	1	11/29/12 17 27	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	11/29/12 17 27	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	11/29/12 17 27	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	11/29/12 17 27	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	11/29/12 17 27	TO-15/RS QA230
Trichlorofluoromethane	1.5	0.3	0.5	J	1	11/29/12 17 27	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/29/12 17 27	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/29/12 17 27	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	11/29/12 17 27	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	11/29/12 17 27	TO-15/RS QA230
o-Xylene	U	U	0.5		1	11/29/12 17 27	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.54		95%	80-120	11/29/12	11/29/12 17 27	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-103112-2	Lab ID: 1211005-02
Sample Matrix: Air	Date Collected: 10/31/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Benzene	U	U	0.5		1	11/29/12 18:15	TO-15/E3 QA230
Benzyl chloride	U	U	0.5		1	11/29/12 18:15	TO-15/E3 QA230
Bromodichloromethane	U	U	0.5		1	11/29/12 18:15	TO-15/E3 QA230
Bromoform	U	U	0.5		1	11/29/12 18:15	TO-15/E3 QA230
Bromomethane	U	U	0.5		1	11/29/12 18:15	TO-15/E3 QA230
1,3-Butadiene	U	U	0.5		1	11/29/12 18:15	TO-15/E3 QA230
2-Butanone	U	U	0.5		1	11/29/12 18:15	TO-15/E3 QA230
Carbon disulfide	0.6	0.2	0.5	J	1	11/29/12 18:15	TO-15/E3 QA230
Carbon Tetrachloride	U	U	0.5		1	11/29/12 18:15	TO-15/E3 QA230
Chlorobenzene	U	U	0.5		1	11/29/12 18:15	TO-15/E3 QA230
Chloroethane	U	U	0.5		1	11/29/12 18:15	TO-15/E3 QA230
Chloroform	U	U	0.5		1	11/29/12 18:15	TO-15/E3 QA230
Chloromethane	1.2	0.6	0.5		1	11/29/12 18:15	TO-15/E3 QA230
Dibromochloromethane	U	U	0.5		1	11/29/12 18:15	TO-15/E3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	11/29/12 18:15	TO-15/E3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	11/29/12 18:15	TO-15/E3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	11/29/12 18:15	TO-15/E3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	11/29/12 18:15	TO-15/E3 QA230
Dichlorodifluoromethane	3.0	0.6	0.5		1	11/29/12 18:15	TO-15/E3 QA230
1,1-Dichloroethane	U	U	0.5		1	11/29/12 18:15	TO-15/E3 QA230
1,2-Dichloroethane	U	U	0.5		1	11/29/12 18:15	TO-15/E3 QA230
1,1-Dichloroethene	U	U	0.5		1	11/29/12 18:15	TO-15/E3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	11/29/12 18:15	TO-15/E3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	11/29/12 18:15	TO-15/E3 QA230
1,2-Dichloropropane	U	U	0.5		1	11/29/12 18:15	TO-15/E3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	11/29/12 18:15	TO-15/E3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	11/29/12 18:15	TO-15/E3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	11/29/12 18:15	TO-15/E3 QA230
Ethanol	2.5	1.3	0.5		1	11/29/12 18:15	TO-15/E3 QA230
Ethylbenzene	U	U	0.5		1	11/29/12 18:15	TO-15/E3 QA230
Freon 113	U	U	0.5		1	11/29/12 18:15	TO-15/E3 QA230
Hexachlorobutadiene	U	U	0.5		1	11/29/12 18:15	TO-15/E3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	11/29/12 18:15	TO-15/E3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	11/29/12 18:15	TO-15/E3 QA230
Methylene Chloride	0.6	0.2	0.5	J	1	11/29/12 18:15	TO-15/E3 QA230
Naphthalene	1.1	0.2	0.5	J	1	11/29/12 18:15	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-103112-2	Lab ID: 1211005-02
Sample Matrix: Air	Date Collected: 10/31/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDH#
Propylene	U	U	0.5		1	11/29/12 18:15	TO-15/E3 Q4230
Styrene	U	U	0.5		1	11/29/12 18:15	TO-15/E3 Q4230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/29/12 18:15	TO-15/E3 Q4230
Tetrachloroethene	U	U	0.5		1	11/29/12 18:15	TO-15/E3 Q4230
Toluene	1.6	0.4	0.5	J	1	11/29/12 18:15	TO-15/E3 Q4230
1,2,4-Trichlorobenzene	1.2	0.2	0.5	J	1	11/29/12 18:15	TO-15/E3 Q4230
1,1,1-Trichloroethane	U	U	0.5		1	11/29/12 18:15	TO-15/E3 Q4230
1,1,2-Trichloroethane	U	U	0.5		1	11/29/12 18:15	TO-15/E3 Q4230
Trichloroethene	U	U	0.5		1	11/29/12 18:15	TO-15/E3 Q4230
Trichlorofluoromethane	1.5	0.3	0.5	J	1	11/29/12 18:15	TO-15/E3 Q4230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/29/12 18:15	TO-15/E3 Q4230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/29/12 18:15	TO-15/E3 Q4230
Vinyl chloride	U	U	0.5		1	11/29/12 18:15	TO-15/E3 Q4230
m,p-Xylene	U	U	1.0		1	11/29/12 18:15	TO-15/E3 Q4230
o-Xylene	U	U	0.5		1	11/29/12 18:15	TO-15/E3 Q4230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Prepared	Analysed	Method/SCDH#
<i>Surrogate: Bromofluorobenzene</i>	<i>9.62</i>		<i>96%</i>	<i>80-120</i>	<i>11/29/12</i>	<i>11/29/12 18:15</i>	<i>TO-15/E3 Q4230</i>

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA
Station ID: ERIG-VOC-103112-2C0
Sample Matrix: Air

Project #: NSF 615
Lab ID: 1211005-03
Date Collected: 10/31/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/SCDF#
Benzene	0.5	0.2	0.5	J	1	11/29/12 19:03	TO-15/R3 QA230
Benzyl chloride	U	U	0.5		1	11/29/12 19:03	TO-15/R3 QA230
Bromodichloromethane	U	U	0.5		1	11/29/12 19:03	TO-15/R3 QA230
Bromofom	U	U	0.5		1	11/29/12 19:03	TO-15/R3 QA230
Bromomethane	U	U	0.5		1	11/29/12 19:03	TO-15/R3 QA230
1,3-Butadiene	U	U	0.5		1	11/29/12 19:03	TO-15/R3 QA230
2-Butanone	U	U	0.5		1	11/29/12 19:03	TO-15/R3 QA230
Carbon disulfide	0.5	0.2	0.5	J	1	11/29/12 19:03	TO-15/R3 QA230
Carbon Tetrachloride	U	U	0.5		1	11/29/12 19:03	TO-15/R3 QA230
Chlorobenzene	U	U	0.5		1	11/29/12 19:03	TO-15/R3 QA230
Chloroethane	U	U	0.5		1	11/29/12 19:03	TO-15/R3 QA230
Chloroform	U	U	0.5		1	11/29/12 19:03	TO-15/R3 QA230
Chloromethane	1.2	0.6	0.5		1	11/29/12 19:03	TO-15/R3 QA230
Dibromochloromethane	U	U	0.5		1	11/29/12 19:03	TO-15/R3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	11/29/12 19:03	TO-15/R3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	11/29/12 19:03	TO-15/R3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	11/29/12 19:03	TO-15/R3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	11/29/12 19:03	TO-15/R3 QA230
Dichlorodifluoromethane	2.9	0.6	0.5		1	11/29/12 19:03	TO-15/R3 QA230
1,1-Dichloroethane	U	U	0.5		1	11/29/12 19:03	TO-15/R3 QA230
1,2-Dichloroethane	U	U	0.5		1	11/29/12 19:03	TO-15/R3 QA230
1,1-Dichloroethene	U	U	0.5		1	11/29/12 19:03	TO-15/R3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	11/29/12 19:03	TO-15/R3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	11/29/12 19:03	TO-15/R3 QA230
1,2-Dichloropropane	U	U	0.5		1	11/29/12 19:03	TO-15/R3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	11/29/12 19:03	TO-15/R3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	11/29/12 19:03	TO-15/R3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	11/29/12 19:03	TO-15/R3 QA230
Ethanol	U	U	0.5		1	11/29/12 19:03	TO-15/R3 QA230
Ethylbenzene	U	U	0.5		1	11/29/12 19:03	TO-15/R3 QA230
Freon 113	U	U	0.5		1	11/29/12 19:03	TO-15/R3 QA230
Hexachlorobutadiene	U	U	0.5		1	11/29/12 19:03	TO-15/R3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	11/29/12 19:03	TO-15/R3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	11/29/12 19:03	TO-15/R3 QA230
Methylene Chloride	0.6	0.2	0.5	J	1	11/29/12 19:03	TO-15/R3 QA230
Naphthalene	U	U	0.5		1	11/29/12 19:03	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-103112-2C0	Lab ID: 1211005-03
Sample Matrix: Air	Date Collected: 10/8/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCEN
Propylene	U	U	0.5		1	11/29/12 19:03	TO-15/RS QA230
Styrene	U	U	0.5		1	11/29/12 19:03	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/29/12 19:03	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	11/29/12 19:03	TO-15/RS QA230
Toluene	2.5	0.6	0.5		1	11/29/12 19:03	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	11/29/12 19:03	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	11/29/12 19:03	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	11/29/12 19:03	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	11/29/12 19:03	TO-15/RS QA230
Trichlorofluoromethane	1.4	0.2	0.5	J	1	11/29/12 19:03	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/29/12 19:03	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/29/12 19:03	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	11/29/12 19:03	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	11/29/12 19:03	TO-15/RS QA230
o-Xylene	U	U	0.5		1	11/29/12 19:03	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Prepared	Analysed	Method/SCEN
<i>Surrogate: Bromofluorobenzene</i>	9.38		96%	80-120	11/29/12	11/29/12 19:03	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-103112-3	Lab ID: 1211005-04
Sample Matrix: Air	Date Collected: 10/31/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/SCM#
Benzene	U	U	0.5		1	11/29/12 19:50	TO-15/F3 QA230
Benzyl chloride	U	U	0.5		1	11/29/12 19:50	TO-15/F3 QA230
Bromodichloromethane	U	U	0.5		1	11/29/12 19:50	TO-15/F3 QA230
Bromoform	U	U	0.5		1	11/29/12 19:50	TO-15/F3 QA230
Bromomethane	U	U	0.5		1	11/29/12 19:50	TO-15/F3 QA230
1,3-Butadiene	U	U	0.5		1	11/29/12 19:50	TO-15/F3 QA230
2-Butanone	U	U	0.5		1	11/29/12 19:50	TO-15/F3 QA230
Carbon disulfide	0.6	0.2	0.5	J	1	11/29/12 19:50	TO-15/F3 QA230
Carbon Tetrachloride	U	U	0.5		1	11/29/12 19:50	TO-15/F3 QA230
Chlorobenzene	U	U	0.5		1	11/29/12 19:50	TO-15/F3 QA230
Chloroethane	U	U	0.5		1	11/29/12 19:50	TO-15/F3 QA230
Chloroform	U	U	0.5		1	11/29/12 19:50	TO-15/F3 QA230
Chloromethane	1.3	0.6	0.5		1	11/29/12 19:50	TO-15/F3 QA230
Dibromochloromethane	U	U	0.5		1	11/29/12 19:50	TO-15/F3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	11/29/12 19:50	TO-15/F3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	11/29/12 19:50	TO-15/F3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	11/29/12 19:50	TO-15/F3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	11/29/12 19:50	TO-15/F3 QA230
Dichlorodifluoromethane	3.2	0.6	0.5		1	11/29/12 19:50	TO-15/F3 QA230
1,1-Dichloroethane	U	U	0.5		1	11/29/12 19:50	TO-15/F3 QA230
1,2-Dichloroethane	U	U	0.5		1	11/29/12 19:50	TO-15/F3 QA230
1,1-Dichloroethene	U	U	0.5		1	11/29/12 19:50	TO-15/F3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	11/29/12 19:50	TO-15/F3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	11/29/12 19:50	TO-15/F3 QA230
1,2-Dichloropropane	U	U	0.5		1	11/29/12 19:50	TO-15/F3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	11/29/12 19:50	TO-15/F3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	11/29/12 19:50	TO-15/F3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	11/29/12 19:50	TO-15/F3 QA230
Ethanol	3.4	1.8	0.5		1	11/29/12 19:50	TO-15/F3 QA230
Ethylbenzene	U	U	0.5		1	11/29/12 19:50	TO-15/F3 QA230
Freon 113	U	U	0.5		1	11/29/12 19:50	TO-15/F3 QA230
Hexachlorobutadiene	U	U	0.5		1	11/29/12 19:50	TO-15/F3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	11/29/12 19:50	TO-15/F3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	11/29/12 19:50	TO-15/F3 QA230
Methylene Chloride	0.6	0.2	0.5	J	1	11/29/12 19:50	TO-15/F3 QA230
Naphthalene	U	U	0.5		1	11/29/12 19:50	TO-15/F3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5350



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-103112-3	Lab ID: 1211005-04
Sample Matrix: Air	Date Collected: 10/31/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	11/29/12 19:50	TO-15/E3 QA230
Styrene	U	U	0.5		1	11/29/12 19:50	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/29/12 19:50	TO-15/E3 QA230
Tetrachloroethene	U	U	0.5		1	11/29/12 19:50	TO-15/E3 QA230
Toluene	1.8	0.5	0.5		1	11/29/12 19:50	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	11/29/12 19:50	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	11/29/12 19:50	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	11/29/12 19:50	TO-15/E3 QA230
Trichloroethene	U	U	0.5		1	11/29/12 19:50	TO-15/E3 QA230
Trichlorofluoromethane	1.6	0.3	0.5	J	1	11/29/12 19:50	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/29/12 19:50	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/29/12 19:50	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	11/29/12 19:50	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	11/29/12 19:50	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	11/29/12 19:50	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.65		96%	80-120	11/29/12	11/29/12 19:50	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-103112	Lab ID: 1211005-05
Sample Matrix: Air	Date Collected: 10/31/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/DOE#
Benzene	U	U	0.5		1	11/29/12 20:38	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	11/29/12 20:38	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	11/29/12 20:38	TO-15/RS QA230
Bromofom	U	U	0.5		1	11/29/12 20:38	TO-15/RS QA230
Bromomethane	U	U	0.5		1	11/29/12 20:38	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	11/29/12 20:38	TO-15/RS QA230
2-Butanone	U	U	0.5		1	11/29/12 20:38	TO-15/RS QA230
Carbon disulfide	0.7	0.2	0.5	J	1	11/29/12 20:38	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	11/29/12 20:38	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	11/29/12 20:38	TO-15/RS QA230
Chloroethane	U	U	0.5		1	11/29/12 20:38	TO-15/RS QA230
Chlorofom	U	U	0.5		1	11/29/12 20:38	TO-15/RS QA230
Chloromethane	1.2	0.6	0.5		1	11/29/12 20:38	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	11/29/12 20:38	TO-15/RS QA230
1,2-Dibromomethane (EDB)	U	U	0.5		1	11/29/12 20:38	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	11/29/12 20:38	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	11/29/12 20:38	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	11/29/12 20:38	TO-15/RS QA230
Dichlorodifluoromethane	3.1	0.6	0.5		1	11/29/12 20:38	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	11/29/12 20:38	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	11/29/12 20:38	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	11/29/12 20:38	TO-15/RS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	11/29/12 20:38	TO-15/RS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	11/29/12 20:38	TO-15/RS QA230
1,2-Dichloropropane	U	U	0.5		1	11/29/12 20:38	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	11/29/12 20:38	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	11/29/12 20:38	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	11/29/12 20:38	TO-15/RS QA230
Ethanol	5.3	2.8	0.5		1	11/29/12 20:38	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	11/29/12 20:38	TO-15/RS QA230
Heon 113	U	U	0.5		1	11/29/12 20:38	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	11/29/12 20:38	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	11/29/12 20:38	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	11/29/12 20:38	TO-15/RS QA230
Methylene Chloride	0.6	0.2	0.5	J	1	11/29/12 20:38	TO-15/RS QA230
Naphthalene	U	U	0.5		1	11/29/12 20:38	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5390



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-103112	Lab ID: 1211005-05
Sample Matrix: Air	Date Collected: 10/31/2012

**Volatile Organic Compounds
Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDW
Propylene	U	U	0.5		1	11/29/12 20:38	TO-15/R3 QA230
Styrene	U	U	0.5		1	11/29/12 20:38	TO-15/R3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/29/12 20:38	TO-15/R3 QA230
Tetrachloroethene	U	U	0.5		1	11/29/12 20:38	TO-15/R3 QA230
Toluene	1.2	0.3	0.5	J	1	11/29/12 20:38	TO-15/R3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	11/29/12 20:38	TO-15/R3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	11/29/12 20:38	TO-15/R3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	11/29/12 20:38	TO-15/R3 QA230
Trichloroethene	U	U	0.5		1	11/29/12 20:38	TO-15/R3 QA230
Trichlorofluoromethane	1.5	0.3	0.5	J	1	11/29/12 20:38	TO-15/R3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/29/12 20:38	TO-15/R3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/29/12 20:38	TO-15/R3 QA230
Vinyl chloride	U	U	0.5		1	11/29/12 20:38	TO-15/R3 QA230
m,p-Xylene	U	U	1.0		1	11/29/12 20:38	TO-15/R3 QA230
o-Xylene	U	U	0.5		1	11/29/12 20:38	TO-15/R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery WtRecovery	%Recovery Limit	Prepared	Analysed	Method/SCDW
<i>Surrogate: Bromofluorobenzene</i>	9.68		97%	80-120	11/29/12	11/29/12 20:38	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5350



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-110312-1	Lab ID: 1211005-06
Sample Matrix: Ar	Date Collected: 11/03/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualities	Dilution	Analysis	Method/DOE#
Benzene	0.6	0.2	0.5	J	1	11/29/12 21:24	TO-15/R3 Q4230
Benzyl chloride	U	U	0.5		1	11/29/12 21:24	TO-15/R3 Q4230
Bromodichloromethane	U	U	0.5		1	11/29/12 21:24	TO-15/R3 Q4230
Bromoform	U	U	0.5		1	11/29/12 21:24	TO-15/R3 Q4230
Bromoethane	U	U	0.5		1	11/29/12 21:24	TO-15/R3 Q4230
1,3-Butadiene	U	U	0.5		1	11/29/12 21:24	TO-15/R3 Q4230
2-Butanone	U	U	0.5		1	11/29/12 21:24	TO-15/R3 Q4230
Carbon disulfide	U	U	0.5		1	11/29/12 21:24	TO-15/R3 Q4230
Carbon Tetrachloride	U	U	0.5		1	11/29/12 21:24	TO-15/R3 Q4230
Chlorobenzene	U	U	0.5		1	11/29/12 21:24	TO-15/R3 Q4230
Chloroethane	U	U	0.5		1	11/29/12 21:24	TO-15/R3 Q4230
Chloroform	U	U	0.5		1	11/29/12 21:24	TO-15/R3 Q4230
Chloromethane	1.3	0.6	0.5		1	11/29/12 21:24	TO-15/R3 Q4230
Dibromochloromethane	U	U	0.5		1	11/29/12 21:24	TO-15/R3 Q4230
1,2-Dibromoethane (EDB)	U	U	0.5		1	11/29/12 21:24	TO-15/R3 Q4230
1,2-Dichlorobenzene	U	U	0.5		1	11/29/12 21:24	TO-15/R3 Q4230
1,3-Dichlorobenzene	U	U	0.5		1	11/29/12 21:24	TO-15/R3 Q4230
1,4-Dichlorobenzene	U	U	0.5		1	11/29/12 21:24	TO-15/R3 Q4230
Dichlorodifluoromethane	3.1	0.6	0.5		1	11/29/12 21:24	TO-15/R3 Q4230
1,1-Dichloroethane	U	U	0.5		1	11/29/12 21:24	TO-15/R3 Q4230
1,2-Dichloroethane	U	U	0.5		1	11/29/12 21:24	TO-15/R3 Q4230
1,1-Dichloroethene	U	U	0.5		1	11/29/12 21:24	TO-15/R3 Q4230
cis-1,2-Dichloroethene	U	U	0.5		1	11/29/12 21:24	TO-15/R3 Q4230
trans-1,2-Dichloroethene	U	U	0.5		1	11/29/12 21:24	TO-15/R3 Q4230
1,2-Dichloropropane	U	U	0.5		1	11/29/12 21:24	TO-15/R3 Q4230
cis-1,3-Dichloropropene	U	U	0.5		1	11/29/12 21:24	TO-15/R3 Q4230
trans-1,3-Dichloropropene	U	U	0.5		1	11/29/12 21:24	TO-15/R3 Q4230
Dichlorotetrafluoroethane	U	U	0.5		1	11/29/12 21:24	TO-15/R3 Q4230
Ethanol	3.0	1.6	0.5		1	11/29/12 21:24	TO-15/R3 Q4230
Ethylbenzene	U	U	0.5		1	11/29/12 21:24	TO-15/R3 Q4230
Freon 113	U	U	0.5		1	11/29/12 21:24	TO-15/R3 Q4230
Hexachlorobutadiene	U	U	0.5		1	11/29/12 21:24	TO-15/R3 Q4230
Methyl tert-Butyl Ether	U	U	0.5		1	11/29/12 21:24	TO-15/R3 Q4230
4-Methyl-2-pentanone	U	U	0.5		1	11/29/12 21:24	TO-15/R3 Q4230
Methylene Chloride	0.6	0.2	0.5	J	1	11/29/12 21:24	TO-15/R3 Q4230
Naphthalene	U	U	0.5		1	11/29/12 21:24	TO-15/R3 Q4230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-110312-1	Lab ID: 1211005-06
Sample Matrix: Air	Date Collected: 11/03/2012

**Volatile Organic Compounds
Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifies	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	11/29/12 21 24	TO-15/R3 Q4230
Styrene	U	U	0.5		1	11/29/12 21 24	TO-15/R3 Q4230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/29/12 21 24	TO-15/R3 Q4230
Tetrachloroethene	U	U	0.5		1	11/29/12 21 24	TO-15/R3 Q4230
Toluene	1.2	0.3	0.5	J	1	11/29/12 21 24	TO-15/R3 Q4230
1,2,4-Trichlorobenzene	U	U	0.5		1	11/29/12 21 24	TO-15/R3 Q4230
1,1,1-Trichloroethane	U	U	0.5		1	11/29/12 21 24	TO-15/R3 Q4230
1,1,2-Trichloroethane	U	U	0.5		1	11/29/12 21 24	TO-15/R3 Q4230
Trichloroethene	U	U	0.5		1	11/29/12 21 24	TO-15/R3 Q4230
Trichlorofluoromethane	1.5	0.3	0.5	J	1	11/29/12 21 24	TO-15/R3 Q4230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/29/12 21 24	TO-15/R3 Q4230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/29/12 21 24	TO-15/R3 Q4230
Vinyl chloride	U	U	0.5		1	11/29/12 21 24	TO-15/R3 Q4230
m,p-Xylene	U	U	1.0		1	11/29/12 21 24	TO-15/R3 Q4230
o-Xylene	U	U	0.5		1	11/29/12 21 24	TO-15/R3 Q4230

Surrogates

Analyte	Result ppbv	Flag Qualifies	%Recovery	%Recovery Limit	Prepared	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.55		96%	80-120	11/29/12	11/29/12 21 24	TO-15/R3 Q4230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-110312-2	Lab ID: 1211005-07
Sample Matrix: Air	Date Collected: 11/03/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Benzene	0.6	0.2	0.5	J	1	11/29/12 22:13	TO-15/FS QA230
Benzyl chloride	U	U	0.5		1	11/29/12 22:13	TO-15/FS QA230
Bromodichloroethane	U	U	0.5		1	11/29/12 22:13	TO-15/FS QA230
Bromofom	U	U	0.5		1	11/29/12 22:13	TO-15/FS QA230
Bromomethane	U	U	0.5		1	11/29/12 22:13	TO-15/FS QA230
1,3-Butadiene	U	U	0.5		1	11/29/12 22:13	TO-15/FS QA230
2-Butanone	U	U	0.5		1	11/29/12 22:13	TO-15/FS QA230
Carbon disulfide	U	U	0.5		1	11/29/12 22:13	TO-15/FS QA230
Carbon Tetrachloride	U	U	0.5		1	11/29/12 22:13	TO-15/FS QA230
Chlorobenzene	U	U	0.5		1	11/29/12 22:13	TO-15/FS QA230
Chloroethane	U	U	0.5		1	11/29/12 22:13	TO-15/FS QA230
Chloroform	U	U	0.5		1	11/29/12 22:13	TO-15/FS QA230
Chloromethane	1.3	0.6	0.5		1	11/29/12 22:13	TO-15/FS QA230
Dibromochloroethane	U	U	0.5		1	11/29/12 22:13	TO-15/FS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	11/29/12 22:13	TO-15/FS QA230
1,2-Dichlorobenzene	U	U	0.5		1	11/29/12 22:13	TO-15/FS QA230
1,3-Dichlorobenzene	U	U	0.5		1	11/29/12 22:13	TO-15/FS QA230
1,4-Dichlorobenzene	U	U	0.5		1	11/29/12 22:13	TO-15/FS QA230
Dichlorodifluoromethane	3.1	0.6	0.5		1	11/29/12 22:13	TO-15/FS QA230
1,1-Dichloroethane	U	U	0.5		1	11/29/12 22:13	TO-15/FS QA230
1,2-Dichloroethane	U	U	0.5		1	11/29/12 22:13	TO-15/FS QA230
1,1-Dichloroethane	U	U	0.5		1	11/29/12 22:13	TO-15/FS QA230
cis-1,2-Dichloroethane	U	U	0.5		1	11/29/12 22:13	TO-15/FS QA230
trans-1,2-Dichloroethane	U	U	0.5		1	11/29/12 22:13	TO-15/FS QA230
1,2-Dichloropropane	U	U	0.5		1	11/29/12 22:13	TO-15/FS QA230
cis-1,3-Dichloropropane	U	U	0.5		1	11/29/12 22:13	TO-15/FS QA230
trans-1,3-Dichloropropane	U	U	0.5		1	11/29/12 22:13	TO-15/FS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	11/29/12 22:13	TO-15/FS QA230
Ethanol	2.7	1.4	0.5		1	11/29/12 22:13	TO-15/FS QA230
Ethylbenzene	U	U	0.5		1	11/29/12 22:13	TO-15/FS QA230
Heon 113	U	U	0.5		1	11/29/12 22:13	TO-15/FS QA230
Hexachlorobutadiene	U	U	0.5		1	11/29/12 22:13	TO-15/FS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	11/29/12 22:13	TO-15/FS QA230
4-Methyl-2-pentanone	U	U	0.5		1	11/29/12 22:13	TO-15/FS QA230
Methylene Chloride	0.6	0.2	0.5	J	1	11/29/12 22:13	TO-15/FS QA230
Naphthalene	U	U	0.5		1	11/29/12 22:13	TO-15/FS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-110312-2	Lab ID: 1211005-07
Sample Matrix: Air	Date Collected: 11/03/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDH
Propylene	U	U	0.5		1	11/29/12 22:13	TO-15/E3 QA230
Styrene	U	U	0.5		1	11/29/12 22:13	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/29/12 22:13	TO-15/E3 QA230
Tetrachloroethane	U	U	0.5		1	11/29/12 22:13	TO-15/E3 QA230
Toluene	1.4	0.4	0.5	J	1	11/29/12 22:13	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	11/29/12 22:13	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	11/29/12 22:13	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	11/29/12 22:13	TO-15/E3 QA230
Trichloroethane	U	U	0.5		1	11/29/12 22:13	TO-15/E3 QA230
Trichlorofluoromethane	1.5	0.3	0.5	J	1	11/29/12 22:13	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/29/12 22:13	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/29/12 22:13	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	11/29/12 22:13	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	11/29/12 22:13	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	11/29/12 22:13	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Encourag Limit	Expanded	Analysed	Method/SCDH
<i>Surrogate: Bromofluorobenzene</i>	9.60		96%	80-120	11/29/12	11/29/12 22:13	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-110312-2C0	Lab ID: 1211005-08
Sample Matrix: Air	Date Collected: 11/03/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Benzene	0.7	0.2	0.5	J	1	11/29/12 23:00	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	11/29/12 23:00	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	11/29/12 23:00	TO-15/RS QA230
Bromofom	U	U	0.5		1	11/29/12 23:00	TO-15/RS QA230
Bromomethane	U	U	0.5		1	11/29/12 23:00	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	11/29/12 23:00	TO-15/RS QA230
2-Butanone	U	U	0.5		1	11/29/12 23:00	TO-15/RS QA230
Carbon disulfide	U	U	0.5		1	11/29/12 23:00	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	11/29/12 23:00	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	11/29/12 23:00	TO-15/RS QA230
Chloroethane	U	U	0.5		1	11/29/12 23:00	TO-15/RS QA230
Chloroform	U	U	0.5		1	11/29/12 23:00	TO-15/RS QA230
Chloromethane	1.3	0.6	0.5		1	11/29/12 23:00	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	11/29/12 23:00	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	11/29/12 23:00	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	11/29/12 23:00	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	11/29/12 23:00	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	11/29/12 23:00	TO-15/RS QA230
Dichlorodifluoromethane	3.1	0.6	0.5		1	11/29/12 23:00	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	11/29/12 23:00	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	11/29/12 23:00	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	11/29/12 23:00	TO-15/RS QA230
cis-1,2-Dichloroethane	U	U	0.5		1	11/29/12 23:00	TO-15/RS QA230
trans-1,2-Dichloroethane	U	U	0.5		1	11/29/12 23:00	TO-15/RS QA230
1,2-Dichloropropane	U	U	0.5		1	11/29/12 23:00	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	11/29/12 23:00	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	11/29/12 23:00	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	11/29/12 23:00	TO-15/RS QA230
Ethanol	2.3	1.2	0.5		1	11/29/12 23:00	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	11/29/12 23:00	TO-15/RS QA230
Freon 113	U	U	0.5		1	11/29/12 23:00	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	11/29/12 23:00	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	11/29/12 23:00	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	11/29/12 23:00	TO-15/RS QA230
Methylene Chloride	0.6	0.2	0.5	J	1	11/29/12 23:00	TO-15/RS QA230
Naphthalene	U	U	0.5		1	11/29/12 23:00	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-110312-2C0	Lab ID: 1211005-08
Sample Matrix: Air	Date Collected: 11/03/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	11/29/12 23:00	TO-15/E3 QA230
Styrene	U	U	0.5		1	11/29/12 23:00	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/29/12 23:00	TO-15/E3 QA230
Tetrachloroethene	U	U	0.5		1	11/29/12 23:00	TO-15/E3 QA230
Toluene	0.8	0.2	0.5	J	1	11/29/12 23:00	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	11/29/12 23:00	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	11/29/12 23:00	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	11/29/12 23:00	TO-15/E3 QA230
Trichloroethene	U	U	0.5		1	11/29/12 23:00	TO-15/E3 QA230
Trichlorofluoromethane	1.5	0.3	0.5	J	1	11/29/12 23:00	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/29/12 23:00	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/29/12 23:00	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	11/29/12 23:00	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	11/29/12 23:00	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	11/29/12 23:00	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Accuracy Limit	Prepared	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.62		96%	80-120	11/29/12	11/29/12 23:00	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-110312-3	Lab ID: 1211005-09
Sample Matrix: Air	Date Collected: 11/03/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/SCM#
Benzene	0.5	0.2	0.5	J	1	11/29/12 23:47	TO-15/FS QA230
Benzyl chloride	U	U	0.5		1	11/29/12 23:47	TO-15/FS QA230
Bromodichloroethane	U	U	0.5		1	11/29/12 23:47	TO-15/FS QA230
Bromoforn	U	U	0.5		1	11/29/12 23:47	TO-15/FS QA230
Bromoethane	U	U	0.5		1	11/29/12 23:47	TO-15/FS QA230
1,3-Butadiene	U	U	0.5		1	11/29/12 23:47	TO-15/FS QA230
2-Butanone	U	U	0.5		1	11/29/12 23:47	TO-15/FS QA230
Carbonyl sulfide	U	U	0.5		1	11/29/12 23:47	TO-15/FS QA230
Carbon Tetrachloride	U	U	0.5		1	11/29/12 23:47	TO-15/FS QA230
Chlorobenzene	U	U	0.5		1	11/29/12 23:47	TO-15/FS QA230
Chloroethane	U	U	0.5		1	11/29/12 23:47	TO-15/FS QA230
Chloroform	U	U	0.5		1	11/29/12 23:47	TO-15/FS QA230
Chloromethane	1.3	0.6	0.5		1	11/29/12 23:47	TO-15/FS QA230
Dibromochloroethane	U	U	0.5		1	11/29/12 23:47	TO-15/FS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	11/29/12 23:47	TO-15/FS QA230
1,2-Dichlorobenzene	U	U	0.5		1	11/29/12 23:47	TO-15/FS QA230
1,3-Dichlorobenzene	U	U	0.5		1	11/29/12 23:47	TO-15/FS QA230
1,4-Dichlorobenzene	U	U	0.5		1	11/29/12 23:47	TO-15/FS QA230
Dichlorodifluoromethane	3.1	0.6	0.5		1	11/29/12 23:47	TO-15/FS QA230
1,1-Dichloroethane	U	U	0.5		1	11/29/12 23:47	TO-15/FS QA230
1,2-Dichloroethane	U	U	0.5		1	11/29/12 23:47	TO-15/FS QA230
1,1-Dichloroethene	U	U	0.5		1	11/29/12 23:47	TO-15/FS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	11/29/12 23:47	TO-15/FS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	11/29/12 23:47	TO-15/FS QA230
1,2-Dichloropropane	U	U	0.5		1	11/29/12 23:47	TO-15/FS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	11/29/12 23:47	TO-15/FS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	11/29/12 23:47	TO-15/FS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	11/29/12 23:47	TO-15/FS QA230
Ethanol	2.0	1.0	0.5		1	11/29/12 23:47	TO-15/FS QA230
Ethylbenzene	U	U	0.5		1	11/29/12 23:47	TO-15/FS QA230
Freon 113	U	U	0.5		1	11/29/12 23:47	TO-15/FS QA230
Hexachlorobutadiene	U	U	0.5		1	11/29/12 23:47	TO-15/FS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	11/29/12 23:47	TO-15/FS QA230
4-Methyl-2-pentanone	U	U	0.5		1	11/29/12 23:47	TO-15/FS QA230
Methylene Chloride	0.6	0.2	0.5	J	1	11/29/12 23:47	TO-15/FS QA230
Naphthalene	U	U	0.5		1	11/29/12 23:47	TO-15/FS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-110312-3	Lab ID: 1211005-09
Sample Matrix: Air	Date Collected: 11/03/2012

**Volatile Organic Compounds
Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	11/29/12 23:47	TO-15/RS QA230
Styrene	U	U	0.5		1	11/29/12 23:47	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/29/12 23:47	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	11/29/12 23:47	TO-15/RS QA230
Toluene	1.1	0.3	0.5	J	1	11/29/12 23:47	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	11/29/12 23:47	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	11/29/12 23:47	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	11/29/12 23:47	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	11/29/12 23:47	TO-15/RS QA230
Trichlorofluoromethane	1.5	0.3	0.5	J	1	11/29/12 23:47	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/29/12 23:47	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/29/12 23:47	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	11/29/12 23:47	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	11/29/12 23:47	TO-15/RS QA230
o-Xylene	U	U	0.5		1	11/29/12 23:47	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Encovary Limits	Expanded	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.56		96%	80-120	11/29/12	11/29/12 23:47	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-110312	Lab ID: 1211005-10
Sample Matrix: Air	Date Collected: 11/03/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF
Benzene	U	U	0.5		1	11/01/20035	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	11/01/20035	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	11/01/20035	TO-15/RS QA230
Bromoform	U	U	0.5		1	11/01/20035	TO-15/RS QA230
Bromomethane	U	U	0.5		1	11/01/20035	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	11/01/20035	TO-15/RS QA230
2-Butanone	U	U	0.5		1	11/01/20035	TO-15/RS QA230
Carbon disulfide	0.6	0.2	0.5	J	1	11/01/20035	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	11/01/20035	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	11/01/20035	TO-15/RS QA230
Chloroethane	U	U	0.5		1	11/01/20035	TO-15/RS QA230
Chloroform	U	U	0.5		1	11/01/20035	TO-15/RS QA230
Chloromethane	1.2	0.6	0.5		1	11/01/20035	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	11/01/20035	TO-15/RS QA230
1,2-Dibromochloroethane (EDB)	U	U	0.5		1	11/01/20035	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	11/01/20035	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	11/01/20035	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	11/01/20035	TO-15/RS QA230
Dichlorodifluoromethane	3.0	0.6	0.5		1	11/01/20035	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	11/01/20035	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	11/01/20035	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	11/01/20035	TO-15/RS QA230
cis-1,2-Dichloroethane	U	U	0.5		1	11/01/20035	TO-15/RS QA230
trans-1,2-Dichloroethane	U	U	0.5		1	11/01/20035	TO-15/RS QA230
1,2-Dichloropropene	U	U	0.5		1	11/01/20035	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	11/01/20035	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	11/01/20035	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	11/01/20035	TO-15/RS QA230
Ethanol	3.8	2.0	0.5		1	11/01/20035	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	11/01/20035	TO-15/RS QA230
Freon 113	U	U	0.5		1	11/01/20035	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	11/01/20035	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	11/01/20035	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	11/01/20035	TO-15/RS QA230
Methylene Chloride	0.6	0.2	0.5	J	1	11/01/20035	TO-15/RS QA230
Naphthalene	U	U	0.5		1	11/01/20035	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-110312	Lab ID: 1211005-10
Sample Matrix: Air	Date Collected: 11/03/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	11/00/12 00 35	TO-15/R3 QA230
Styrene	U	U	0.5		1	11/00/12 00 35	TO-15/R3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/00/12 00 35	TO-15/R3 QA230
Tetrachloroethene	U	U	0.5		1	11/00/12 00 35	TO-15/R3 QA230
Toluene	0.9	0.2	0.5	J	1	11/00/12 00 35	TO-15/R3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	11/00/12 00 35	TO-15/R3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	11/00/12 00 35	TO-15/R3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	11/00/12 00 35	TO-15/R3 QA230
Trichloroethene	U	U	0.5		1	11/00/12 00 35	TO-15/R3 QA230
Trichlorofluoromethane	1.5	0.3	0.5	J	1	11/00/12 00 35	TO-15/R3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/00/12 00 35	TO-15/R3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/00/12 00 35	TO-15/R3 QA230
Vinyl chloride	U	U	0.5		1	11/00/12 00 35	TO-15/R3 QA230
m,p-Xylene	U	U	1.0		1	11/00/12 00 35	TO-15/R3 QA230
o-Xylene	U	U	0.5		1	11/00/12 00 35	TO-15/R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.57		96%	80-120	11/29/12	11/00/12 00 35	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5350



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-110612-2	Lab ID: 1211005-11
Sample Matrix: Air	Date Collected: 11/06/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF
Benzene	0.7	0.2	0.5	J	1	11/06/12 01:24	TO-15/R3 QA230
Benzyl chloride	U	U	0.5		1	11/06/12 01:24	TO-15/R3 QA230
Bromodichloromethane	U	U	0.5		1	11/06/12 01:24	TO-15/R3 QA230
Bromoforn	U	U	0.5		1	11/06/12 01:24	TO-15/R3 QA230
Bromomethane	U	U	0.5		1	11/06/12 01:24	TO-15/R3 QA230
1,3-Butadiene	U	U	0.5		1	11/06/12 01:24	TO-15/R3 QA230
2-Butanone	U	U	0.5		1	11/06/12 01:24	TO-15/R3 QA230
Carbon disulfide	U	U	0.5		1	11/06/12 01:24	TO-15/R3 QA230
Carbon Tetrachloride	U	U	0.5		1	11/06/12 01:24	TO-15/R3 QA230
Chlorobenzene	U	U	0.5		1	11/06/12 01:24	TO-15/R3 QA230
Chloroethane	U	U	0.5		1	11/06/12 01:24	TO-15/R3 QA230
Chloroform	U	U	0.5		1	11/06/12 01:24	TO-15/R3 QA230
Chloromethane	1.2	0.6	0.5		1	11/06/12 01:24	TO-15/R3 QA230
Dibromochloromethane	U	U	0.5		1	11/06/12 01:24	TO-15/R3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	11/06/12 01:24	TO-15/R3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	11/06/12 01:24	TO-15/R3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	11/06/12 01:24	TO-15/R3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	11/06/12 01:24	TO-15/R3 QA230
Dichlorodifluoromethane	3.0	0.6	0.5		1	11/06/12 01:24	TO-15/R3 QA230
1,1-Dichloroethane	U	U	0.5		1	11/06/12 01:24	TO-15/R3 QA230
1,2-Dichloroethane	U	U	0.5		1	11/06/12 01:24	TO-15/R3 QA230
1,1-Dichloroethene	U	U	0.5		1	11/06/12 01:24	TO-15/R3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	11/06/12 01:24	TO-15/R3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	11/06/12 01:24	TO-15/R3 QA230
1,2-Dichloropropane	U	U	0.5		1	11/06/12 01:24	TO-15/R3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	11/06/12 01:24	TO-15/R3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	11/06/12 01:24	TO-15/R3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	11/06/12 01:24	TO-15/R3 QA230
Ethanol	4.7	2.5	0.5		1	11/06/12 01:24	TO-15/R3 QA230
Ethylbenzene	U	U	0.5		1	11/06/12 01:24	TO-15/R3 QA230
Freon 113	U	U	0.5		1	11/06/12 01:24	TO-15/R3 QA230
Hexachlorobutadiene	U	U	0.5		1	11/06/12 01:24	TO-15/R3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	11/06/12 01:24	TO-15/R3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	11/06/12 01:24	TO-15/R3 QA230
Methylene Chloride	0.6	0.2	0.5	J	1	11/06/12 01:24	TO-15/R3 QA230
Naphthalene	U	U	0.5		1	11/06/12 01:24	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-110612-2	Lab ID: 1211005-11
Sample Matrix: Air	Date Collected: 11/06/2012

**Volatile Organic Compounds
Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCEN
Propylene	U	U	0.5		1	11/30/12 01:24	TO-15/RS QA230
Styrene	U	U	0.5		1	11/30/12 01:24	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/30/12 01:24	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	11/30/12 01:24	TO-15/RS QA230
Toluene	1.9	0.5	0.5		1	11/30/12 01:24	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	11/30/12 01:24	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	11/30/12 01:24	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	11/30/12 01:24	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	11/30/12 01:24	TO-15/RS QA230
Trichlorofluoromethane	1.4	0.2	0.5	J	1	11/30/12 01:24	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/30/12 01:24	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/30/12 01:24	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	11/30/12 01:24	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	11/30/12 01:24	TO-15/RS QA230
o-Xylene	U	U	0.5		1	11/30/12 01:24	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Prepared	Analysed	Method/SCEN
<i>Surrogate: Bromofluorobenzene</i>	9.49		95%	80-120	11/29/12	11/30/12 01:24	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-110612-2C0	Lab ID: 1211005-12
Sample Matrix: Air	Date Collected: 11/06/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SC#
Benzene	0.9	0.3	0.5	J	1	11/30/12 11:40	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	11/30/12 11:40	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	11/30/12 11:40	TO-15/RS QA230
Bromoform	U	U	0.5		1	11/30/12 11:40	TO-15/RS QA230
Bromoethane	U	U	0.5		1	11/30/12 11:40	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	11/30/12 11:40	TO-15/RS QA230
2-Butanone	0.9	0.3	0.5	J	1	11/30/12 11:40	TO-15/RS QA230
Carbon disulfide	U	U	0.5		1	11/30/12 11:40	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	11/30/12 11:40	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	11/30/12 11:40	TO-15/RS QA230
Chloroethane	U	U	0.5		1	11/30/12 11:40	TO-15/RS QA230
Chloroform	U	U	0.5		1	11/30/12 11:40	TO-15/RS QA230
Chloroethane	1.5	0.7	0.5		1	11/30/12 11:40	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	11/30/12 11:40	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	11/30/12 11:40	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	11/30/12 11:40	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	11/30/12 11:40	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	11/30/12 11:40	TO-15/RS QA230
Dichlorodifluoromethane	3.4	0.7	0.5		1	11/30/12 11:40	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	11/30/12 11:40	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	11/30/12 11:40	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	11/30/12 11:40	TO-15/RS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	11/30/12 11:40	TO-15/RS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	11/30/12 11:40	TO-15/RS QA230
1,2-Dichloropropane	U	U	0.5		1	11/30/12 11:40	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	11/30/12 11:40	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	11/30/12 11:40	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	11/30/12 11:40	TO-15/RS QA230
Ethanol	107	56.3	2.5		5	12/03/12 09:49	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	11/30/12 11:40	TO-15/RS QA230
Heon 113	U	U	0.5		1	11/30/12 11:40	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	11/30/12 11:40	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	11/30/12 11:40	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	11/30/12 11:40	TO-15/RS QA230
Methylene Chloride	0.6	0.2	0.5	J	1	11/30/12 11:40	TO-15/RS QA230
Naphthalene	1.1	0.2	0.5	J	1	11/30/12 11:40	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-110612-2C0	Lab ID: 1211005-12
Sample Matrix: Air	Date Collected: 11/06/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDH
Propylene	U	U	0.5		1	11/00/12 11:40	TO-15/E3 QA230
Styrene	U	U	0.5		1	11/00/12 11:40	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/00/12 11:40	TO-15/E3 QA230
Tetrachloroethene	U	U	0.5		1	11/00/12 11:40	TO-15/E3 QA230
Toluene	1.6	0.4	0.5	J	1	11/00/12 11:40	TO-15/E3 QA230
1,2,4-Trichlorobenzene	1.3	0.2	0.5	J	1	11/00/12 11:40	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	11/00/12 11:40	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	11/00/12 11:40	TO-15/E3 QA230
Trichloroethene	U	U	0.5		1	11/00/12 11:40	TO-15/E3 QA230
Trichlorofluoromethane	1.7	0.3	0.5	J	1	11/00/12 11:40	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/00/12 11:40	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/00/12 11:40	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	11/00/12 11:40	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	11/00/12 11:40	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	11/00/12 11:40	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Prepared	Analysed	Method/SCDH
<i>Surrogate: Bromofluorobenzene</i>	9.73		97%	80-120	11/00/12	11/00/12 11:40	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5390



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-110612-3	Lab ID: 1211005-13
Sample Matrix: Air	Date Collected: 11/06/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCEN
Benzene	0.8	0.2	0.5	J	1	11/30/12 12:28	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	11/30/12 12:28	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	11/30/12 12:28	TO-15/RS QA230
Bromoform	U	U	0.5		1	11/30/12 12:28	TO-15/RS QA230
Bromoethane	U	U	0.5		1	11/30/12 12:28	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	11/30/12 12:28	TO-15/RS QA230
2-Butanone	0.6	0.2	0.5	J	1	11/30/12 12:28	TO-15/RS QA230
Carbon disulfide	0.6	0.2	0.5	J	1	11/30/12 12:28	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	11/30/12 12:28	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	11/30/12 12:28	TO-15/RS QA230
Chloroethane	U	U	0.5		1	11/30/12 12:28	TO-15/RS QA230
Chloroform	U	U	0.5		1	11/30/12 12:28	TO-15/RS QA230
Chloromethane	1.3	0.6	0.5		1	11/30/12 12:28	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	11/30/12 12:28	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	11/30/12 12:28	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	11/30/12 12:28	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	11/30/12 12:28	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	11/30/12 12:28	TO-15/RS QA230
Dichlorodifluoromethane	3.0	0.6	0.5		1	11/30/12 12:28	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	11/30/12 12:28	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	11/30/12 12:28	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	11/30/12 12:28	TO-15/RS QA230
cis-1,2-Dichloroethane	U	U	0.5		1	11/30/12 12:28	TO-15/RS QA230
trans-1,2-Dichloroethane	U	U	0.5		1	11/30/12 12:28	TO-15/RS QA230
1,2-Dichloropropane	U	U	0.5		1	11/30/12 12:28	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	11/30/12 12:28	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	11/30/12 12:28	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	11/30/12 12:28	TO-15/RS QA230
Ethanol	4.8	2.6	0.5		1	11/30/12 12:28	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	11/30/12 12:28	TO-15/RS QA230
Freon 113	U	U	0.5		1	11/30/12 12:28	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	11/30/12 12:28	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	11/30/12 12:28	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	11/30/12 12:28	TO-15/RS QA230
Methylene Chloride	0.6	0.2	0.5	J	1	11/30/12 12:28	TO-15/RS QA230
Naphthalene	1.1	0.2	0.5	J	1	11/30/12 12:28	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-110612-3	Lab ID: 1211005-13
Sample Matrix: Air	Date Collected: 11/06/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF
Propylene	U	U	0.5		1	11/30/12 12:28	TO-15/ES QA230
Styrene	U	U	0.5		1	11/30/12 12:28	TO-15/ES QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/30/12 12:28	TO-15/ES QA230
Tetrachloroethene	U	U	0.5		1	11/30/12 12:28	TO-15/ES QA230
Toluene	1.7	0.5	0.5		1	11/30/12 12:28	TO-15/ES QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	11/30/12 12:28	TO-15/ES QA230
1,1,1-Trichloroethane	U	U	0.5		1	11/30/12 12:28	TO-15/ES QA230
1,1,2-Trichloroethane	U	U	0.5		1	11/30/12 12:28	TO-15/ES QA230
Trichloroethene	U	U	0.5		1	11/30/12 12:28	TO-15/ES QA230
Trichlorofluoromethane	1.5	0.3	0.5	J	1	11/30/12 12:28	TO-15/ES QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/30/12 12:28	TO-15/ES QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/30/12 12:28	TO-15/ES QA230
Vinyl chloride	U	U	0.5		1	11/30/12 12:28	TO-15/ES QA230
m,p-Xylene	U	U	1.0		1	11/30/12 12:28	TO-15/ES QA230
o-Xylene	U	U	0.5		1	11/30/12 12:28	TO-15/ES QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Encourag Limit	Expanded	Analysed	Method/SCDF
<i>Surrogate: Bromofluorobenzene</i>	9.68		97%	80-120	11/30/12	11/30/12 12:28	TO-15/ES QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-110612	Lab ID: 1211005-14
Sample Matrix: Air	Date Collected: 11/06/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM
Benzene	0.8	0.2	0.5	J	1	11/30/12 13:17	TO-15/E3 Q4230
Benzyl chloride	U	U	0.5		1	11/30/12 13:17	TO-15/E3 Q4230
Bromodichloromethane	U	U	0.5		1	11/30/12 13:17	TO-15/E3 Q4230
Bromoform	U	U	0.5		1	11/30/12 13:17	TO-15/E3 Q4230
Bromoethane	U	U	0.5		1	11/30/12 13:17	TO-15/E3 Q4230
1,3-Butadiene	U	U	0.5		1	11/30/12 13:17	TO-15/E3 Q4230
2-Butanone	0.5	0.2	0.5	J	1	11/30/12 13:17	TO-15/E3 Q4230
Carbon disulfide	U	U	0.5		1	11/30/12 13:17	TO-15/E3 Q4230
Carbon Tetrachloride	U	U	0.5		1	11/30/12 13:17	TO-15/E3 Q4230
Chlorobenzene	U	U	0.5		1	11/30/12 13:17	TO-15/E3 Q4230
Chloroethane	U	U	0.5		1	11/30/12 13:17	TO-15/E3 Q4230
Chloroform	U	U	0.5		1	11/30/12 13:17	TO-15/E3 Q4230
Chloromethane	1.3	0.6	0.5		1	11/30/12 13:17	TO-15/E3 Q4230
Dibromochloromethane	U	U	0.5		1	11/30/12 13:17	TO-15/E3 Q4230
1,2-Dibromoethane (EDB)	U	U	0.5		1	11/30/12 13:17	TO-15/E3 Q4230
1,2-Dichlorobenzene	U	U	0.5		1	11/30/12 13:17	TO-15/E3 Q4230
1,3-Dichlorobenzene	U	U	0.5		1	11/30/12 13:17	TO-15/E3 Q4230
1,4-Dichlorobenzene	U	U	0.5		1	11/30/12 13:17	TO-15/E3 Q4230
Dichlorodifluoromethane	3.2	0.6	0.5		1	11/30/12 13:17	TO-15/E3 Q4230
1,1-Dichloroethane	U	U	0.5		1	11/30/12 13:17	TO-15/E3 Q4230
1,2-Dichloroethane	U	U	0.5		1	11/30/12 13:17	TO-15/E3 Q4230
1,1-Dichloroethene	U	U	0.5		1	11/30/12 13:17	TO-15/E3 Q4230
cis-1,2-Dichloroethene	U	U	0.5		1	11/30/12 13:17	TO-15/E3 Q4230
trans-1,2-Dichloroethene	U	U	0.5		1	11/30/12 13:17	TO-15/E3 Q4230
1,2-Dichloropropane	U	U	0.5		1	11/30/12 13:17	TO-15/E3 Q4230
cis-1,3-Dichloropropane	U	U	0.5		1	11/30/12 13:17	TO-15/E3 Q4230
trans-1,3-Dichloropropane	U	U	0.5		1	11/30/12 13:17	TO-15/E3 Q4230
Dichlorotetrafluoroethane	U	U	0.5		1	11/30/12 13:17	TO-15/E3 Q4230
Ethanol	4.0	2.1	0.5		1	11/30/12 13:17	TO-15/E3 Q4230
Ethylbenzene	U	U	0.5		1	11/30/12 13:17	TO-15/E3 Q4230
Freon 113	U	U	0.5		1	11/30/12 13:17	TO-15/E3 Q4230
Hexachlorobutadiene	U	U	0.5		1	11/30/12 13:17	TO-15/E3 Q4230
Methyl tert-Butyl Ether	U	U	0.5		1	11/30/12 13:17	TO-15/E3 Q4230
4-Methyl-2-pentanone	U	U	0.5		1	11/30/12 13:17	TO-15/E3 Q4230
Methylene Chloride	0.6	0.2	0.5	J	1	11/30/12 13:17	TO-15/E3 Q4230
Naphthalene	U	U	0.5		1	11/30/12 13:17	TO-15/E3 Q4230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-110612	Lab ID: 1211005-14
Sample Matrix: Air	Date Collected: 11/06/2012

**Volatile Organic Compounds
Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDH#
Propylene	U	U	0.5		1	11/00/12 13:17	TO-15/E3 QA230
Styrene	U	U	0.5		1	11/00/12 13:17	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/00/12 13:17	TO-15/E3 QA230
Tetrachloroethane	U	U	0.5		1	11/00/12 13:17	TO-15/E3 QA230
Toluene	1.3	0.3	0.5	J	1	11/00/12 13:17	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	11/00/12 13:17	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	11/00/12 13:17	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	11/00/12 13:17	TO-15/E3 QA230
Trichloroethane	U	U	0.5		1	11/00/12 13:17	TO-15/E3 QA230
Trichlorofluoromethane	1.5	0.3	0.5	J	1	11/00/12 13:17	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/00/12 13:17	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/00/12 13:17	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	11/00/12 13:17	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	11/00/12 13:17	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	11/00/12 13:17	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Encoury Limit	Empamd	Analysed	Method/SCDH#
<i>Surrogate: Bromofluorobenzene</i>	9.75		96%	80-120	11/00/12	11/00/12 13:17	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-110912-1	Lab ID: 1211005-15
Sample Matrix: Air	Date Collected: 11/09/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/SCM#
Benzene	1.1	0.3	0.5	J	1	11/30/12 14:07	TO-15/E3 QA230
Benzyl chloride	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
Bromodichloromethane	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
Bromofom	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
Bromomethane	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
1,3-Butadiene	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
2-Butanone	1.6	0.5	0.5		1	11/30/12 14:07	TO-15/E3 QA230
Carbon disulfide	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
Carbon Tetrachloride	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
Chlorobenzene	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
Chloroethane	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
Chloroform	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
Chloromethane	1.6	0.8	0.5		1	11/30/12 14:07	TO-15/E3 QA230
Dibromochloromethane	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
Dichlorodifluoromethane	3.2	0.6	0.5		1	11/30/12 14:07	TO-15/E3 QA230
1,1-Dichloroethane	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
1,2-Dichloroethane	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
1,1-Dichloroethene	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
1,2-Dichloropropane	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
Ethanol	12.8	6.7	0.5		1	11/30/12 14:07	TO-15/E3 QA230
Ethylbenzene	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
Freon 113	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
Hexachlorobutadiene	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
Methylene Chloride	0.9	0.3	0.5	J	1	11/30/12 14:07	TO-15/E3 QA230
Naphthalene	1.1	0.2	0.5	J	1	11/30/12 14:07	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-110912-1	Lab ID: 1211005-15
Sample Matrix: Air	Date Collected: 11/09/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM
Propylene	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
Styrene	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
Tetrachloroethene	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
Toluene	11.3	3.0	0.5		1	11/30/12 14:07	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
Trichloroethene	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
Trichlorofluoromethane	1.6	0.3	0.5	J	1	11/30/12 14:07	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230
m,p-Xylene	1.2	0.3	1.0	J	1	11/30/12 14:07	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	11/30/12 14:07	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCM
<i>Surrogate: Bromofluorobenzene</i>	9.81		96%	80-120	11/30/12	11/30/12 14:07	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-110912-2	Lab ID: 1211005-16
Sample Matrix: Air	Date Collected: 11/09/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifies	Dilution	Analysed	Method/SC#
Benzene	1.5	0.5	0.5		1	11/30/12 17:27	TO-15/R3 QA230
Benzyl chloride	U	U	0.5		1	11/30/12 17:27	TO-15/R3 QA230
Bromodichloromethane	U	U	0.5		1	11/30/12 17:27	TO-15/R3 QA230
Bromoform	U	U	0.5		1	11/30/12 17:27	TO-15/R3 QA230
Bromoethane	U	U	0.5		1	11/30/12 17:27	TO-15/R3 QA230
1,3-Butadiene	U	U	0.5		1	11/30/12 17:27	TO-15/R3 QA230
2-Butanone	2.6	0.9	0.5		1	11/30/12 17:27	TO-15/R3 QA230
Carbon disulfide	U	U	0.5		1	11/30/12 17:27	TO-15/R3 QA230
Carbon Tetrachloride	U	U	0.5		1	11/30/12 17:27	TO-15/R3 QA230
Chlorobenzene	U	U	0.5		1	11/30/12 17:27	TO-15/R3 QA230
Chloroethane	U	U	0.5		1	11/30/12 17:27	TO-15/R3 QA230
Chloroform	U	U	0.5		1	11/30/12 17:27	TO-15/R3 QA230
Chloromethane	1.5	0.7	0.5		1	11/30/12 17:27	TO-15/R3 QA230
Dibromochloromethane	U	U	0.5		1	11/30/12 17:27	TO-15/R3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	11/30/12 17:27	TO-15/R3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	11/30/12 17:27	TO-15/R3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	11/30/12 17:27	TO-15/R3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	11/30/12 17:27	TO-15/R3 QA230
Dichlorodifluoromethane	3.1	0.6	0.5		1	11/30/12 17:27	TO-15/R3 QA230
1,1-Dichloroethane	U	U	0.5		1	11/30/12 17:27	TO-15/R3 QA230
1,2-Dichloroethane	U	U	0.5		1	11/30/12 17:27	TO-15/R3 QA230
1,1-Dichloroethene	U	U	0.5		1	11/30/12 17:27	TO-15/R3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	11/30/12 17:27	TO-15/R3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	11/30/12 17:27	TO-15/R3 QA230
1,2-Dichloropropane	U	U	0.5		1	11/30/12 17:27	TO-15/R3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	11/30/12 17:27	TO-15/R3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	11/30/12 17:27	TO-15/R3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	11/30/12 17:27	TO-15/R3 QA230
Ethanol	21.3	11.2	0.5		1	11/30/12 17:27	TO-15/R3 QA230
Ethylbenzene	1.3	0.3	0.5	J	1	11/30/12 17:27	TO-15/R3 QA230
Freon 113	U	U	0.5		1	11/30/12 17:27	TO-15/R3 QA230
Hexachlorobutadiene	U	U	0.5		1	11/30/12 17:27	TO-15/R3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	11/30/12 17:27	TO-15/R3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	11/30/12 17:27	TO-15/R3 QA230
Methylene Chloride	5.2	1.5	0.5		1	11/30/12 17:27	TO-15/R3 QA230
Naphthalene	1.1	0.2	0.5	J	1	11/30/12 17:27	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-110912-2	Lab ID: 1211005-16
Sample Matrix: Air	Date Collected: 11/09/2012

Volatile Organic Compounds
 Targets (Continued)

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF#
Propylene	U	U	0.5		1	11/30/12 17:27	TO-15/ES QA230
Styrene	U	U	0.5		1	11/30/12 17:27	TO-15/ES QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/30/12 17:27	TO-15/ES QA230
Tetrachloroethene	U	U	0.5		1	11/30/12 17:27	TO-15/ES QA230
Toluene	32.4	8.5	0.5		1	11/30/12 17:27	TO-15/ES QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	11/30/12 17:27	TO-15/ES QA230
1,1,1-Trichloroethane	U	U	0.5		1	11/30/12 17:27	TO-15/ES QA230
1,1,2-Trichloroethane	U	U	0.5		1	11/30/12 17:27	TO-15/ES QA230
Trichloroethene	6.5	1.2	0.5		1	11/30/12 17:27	TO-15/ES QA230
Trichlorofluoromethane	1.6	0.3	0.5	J	1	11/30/12 17:27	TO-15/ES QA230
1,2,4-Trimethylbenzene	0.9	0.2	0.5	J	1	11/30/12 17:27	TO-15/ES QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/30/12 17:27	TO-15/ES QA230
Vinyl chloride	U	U	0.5		1	11/30/12 17:27	TO-15/ES QA230
m,p-Xylene	3.5	0.8	1.0	J	1	11/30/12 17:27	TO-15/ES QA230
o-Xylene	1.2	0.3	0.5	J	1	11/30/12 17:27	TO-15/ES QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Encroachment Limit	Expanded	Analysed	Method/SCDF#
<i>Surrogate: Bromofluorobenzene</i>	9.60		96%	80-120	11/30/12	11/30/12 17:27	TO-15/ES QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA

Project #: NSF 615

Station ID: ERIG-VOC-110912-2C0

Lab ID: 1211005-17

Sample Matrix: Air

Date Collected: 11/09/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifies	Dilution	Analysed	Method/SCDF#
Benzene	0.7	0.2	0.5	J	1	11/30/12 15:00	TO-15/E3 QA230
Benzyl chloride	U	U	0.5		1	11/30/12 15:00	TO-15/E3 QA230
Bromodichloromethane	U	U	0.5		1	11/30/12 15:00	TO-15/E3 QA230
Bromoforn	U	U	0.5		1	11/30/12 15:00	TO-15/E3 QA230
Bromomethane	U	U	0.5		1	11/30/12 15:00	TO-15/E3 QA230
1,3-Butadiene	U	U	0.5		1	11/30/12 15:00	TO-15/E3 QA230
2-Butanone	1.0	0.3	0.5	J	1	11/30/12 15:00	TO-15/E3 QA230
Carbon disulfide	U	U	0.5		1	11/30/12 15:00	TO-15/E3 QA230
Carbon Tetrachloride	U	U	0.5		1	11/30/12 15:00	TO-15/E3 QA230
Chlorobenzene	U	U	0.5		1	11/30/12 15:00	TO-15/E3 QA230
Chloroethane	U	U	0.5		1	11/30/12 15:00	TO-15/E3 QA230
Chloroform	U	U	0.5		1	11/30/12 15:00	TO-15/E3 QA230
Chloromethane	1.4	0.7	0.5		1	11/30/12 15:00	TO-15/E3 QA230
Dibromochloromethane	U	U	0.5		1	11/30/12 15:00	TO-15/E3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	11/30/12 15:00	TO-15/E3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	11/30/12 15:00	TO-15/E3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	11/30/12 15:00	TO-15/E3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	11/30/12 15:00	TO-15/E3 QA230
Dichlorodifluoromethane	3.1	0.6	0.5		1	11/30/12 15:00	TO-15/E3 QA230
1,1-Dichloroethane	U	U	0.5		1	11/30/12 15:00	TO-15/E3 QA230
1,2-Dichloroethane	U	U	0.5		1	11/30/12 15:00	TO-15/E3 QA230
1,1-Dichloroethene	U	U	0.5		1	11/30/12 15:00	TO-15/E3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	11/30/12 15:00	TO-15/E3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	11/30/12 15:00	TO-15/E3 QA230
1,2-Dichloropropene	U	U	0.5		1	11/30/12 15:00	TO-15/E3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	11/30/12 15:00	TO-15/E3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	11/30/12 15:00	TO-15/E3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	11/30/12 15:00	TO-15/E3 QA230
Ethanol	20.1	10.6	0.5		1	11/30/12 15:00	TO-15/E3 QA230
Ethylbenzene	U	U	0.5		1	11/30/12 15:00	TO-15/E3 QA230
Freon 113	U	U	0.5		1	11/30/12 15:00	TO-15/E3 QA230
Hexachlorobutadiene	U	U	0.5		1	11/30/12 15:00	TO-15/E3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	11/30/12 15:00	TO-15/E3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	11/30/12 15:00	TO-15/E3 QA230
Methylene Chloride	0.6	0.2	0.5	J	1	11/30/12 15:00	TO-15/E3 QA230
Naphthalene	1.1	0.2	0.5	J	1	11/30/12 15:00	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-110912-2C0	Lab ID: 1211005-17
Sample Matrix: Air	Date Collected: 11/09/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDH#
Propylene	U	U	0.5		1	11/30/12 15:00	TO-15/E3 Q4230
Styrene	U	U	0.5		1	11/30/12 15:00	TO-15/E3 Q4230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/30/12 15:00	TO-15/E3 Q4230
Tetrachloroethene	U	U	0.5		1	11/30/12 15:00	TO-15/E3 Q4230
Toluene	2.4	0.6	0.5		1	11/30/12 15:00	TO-15/E3 Q4230
1,2,4-Trichlorobenzene	U	U	0.5		1	11/30/12 15:00	TO-15/E3 Q4230
1,1,1-Trichloroethane	U	U	0.5		1	11/30/12 15:00	TO-15/E3 Q4230
1,1,2-Trichloroethane	U	U	0.5		1	11/30/12 15:00	TO-15/E3 Q4230
Trichloroethene	U	U	0.5		1	11/30/12 15:00	TO-15/E3 Q4230
Trichlorofluoromethane	1.5	0.3	0.5	J	1	11/30/12 15:00	TO-15/E3 Q4230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/30/12 15:00	TO-15/E3 Q4230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/30/12 15:00	TO-15/E3 Q4230
Vinyl chloride	U	U	0.5		1	11/30/12 15:00	TO-15/E3 Q4230
m,p-Xylene	1.8	0.4	1.0	J	1	11/30/12 15:00	TO-15/E3 Q4230
o-Xylene	U	U	0.5		1	11/30/12 15:00	TO-15/E3 Q4230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Accuracy Limit	Prepared	Analysed	Method/SCDH#
<i>Surrogate: Bromofluorobenzene</i>	9.75		96%	80-120	11/30/12	11/30/12 15:00	TO-15/E3 Q4230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5350



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-110912-3	Lab ID: 1211005-18
Sample Matrix: Air	Date Collected: 11/09/2012

Volatile Organic Compounds
Targets

Analyte	Event µg/m ³	Event ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDW
Benzene	1.0	0.3	0.5	J	1	11/01/12 15:51	TO-15/R3 QA230
Benzyl chloride	U	U	0.5		1	11/01/12 15:51	TO-15/R3 QA230
Bromodichloromethane	U	U	0.5		1	11/01/12 15:51	TO-15/R3 QA230
Bromoforn	U	U	0.5		1	11/01/12 15:51	TO-15/R3 QA230
Bromomethane	U	U	0.5		1	11/01/12 15:51	TO-15/R3 QA230
1,3-Butadiene	U	U	0.5		1	11/01/12 15:51	TO-15/R3 QA230
2-Butanone	1.1	0.4	0.5	J	1	11/01/12 15:51	TO-15/R3 QA230
Carbon disulfide	1.0	0.3	0.5	J	1	11/01/12 15:51	TO-15/R3 QA230
Carbon Tetrachloride	U	U	0.5		1	11/01/12 15:51	TO-15/R3 QA230
Chlorobenzene	U	U	0.5		1	11/01/12 15:51	TO-15/R3 QA230
Chloroethane	U	U	0.5		1	11/01/12 15:51	TO-15/R3 QA230
Chloroform	U	U	0.5		1	11/01/12 15:51	TO-15/R3 QA230
Chloromethane	1.6	0.8	0.5		1	11/01/12 15:51	TO-15/R3 QA230
Dibromochloromethane	U	U	0.5		1	11/01/12 15:51	TO-15/R3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	11/01/12 15:51	TO-15/R3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	11/01/12 15:51	TO-15/R3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	11/01/12 15:51	TO-15/R3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	11/01/12 15:51	TO-15/R3 QA230
Dichlorodifluoromethane	3.2	0.6	0.5		1	11/01/12 15:51	TO-15/R3 QA230
1,1-Dichloroethane	U	U	0.5		1	11/01/12 15:51	TO-15/R3 QA230
1,2-Dichloroethane	U	U	0.5		1	11/01/12 15:51	TO-15/R3 QA230
1,1-Dichloroethene	U	U	0.5		1	11/01/12 15:51	TO-15/R3 QA230
cis-1,2-Dichloroethane	U	U	0.5		1	11/01/12 15:51	TO-15/R3 QA230
trans-1,2-Dichloroethane	U	U	0.5		1	11/01/12 15:51	TO-15/R3 QA230
1,2-Dichloropropane	U	U	0.5		1	11/01/12 15:51	TO-15/R3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	11/01/12 15:51	TO-15/R3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	11/01/12 15:51	TO-15/R3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	11/01/12 15:51	TO-15/R3 QA230
Ethanol	8.3	4.4	0.5		1	11/01/12 15:51	TO-15/R3 QA230
Ethylbenzene	U	U	0.5		1	11/01/12 15:51	TO-15/R3 QA230
Heon.113	U	U	0.5		1	11/01/12 15:51	TO-15/R3 QA230
Hexachlorobutadiene	U	U	0.5		1	11/01/12 15:51	TO-15/R3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	11/01/12 15:51	TO-15/R3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	11/01/12 15:51	TO-15/R3 QA230
Methylene Chloride	0.6	0.2	0.5	J	1	11/01/12 15:51	TO-15/R3 QA230
Naphthalene	1.1	0.2	0.5	J	1	11/01/12 15:51	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5350



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-110912-3	Lab ID: 1211005-18
Sample Matrix: Air	Date Collected: 11/09/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF
Propylene	U	U	0.5		1	11/09/12 15:51	TO-15/E3 QA230
Styrene	U	U	0.5		1	11/09/12 15:51	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/09/12 15:51	TO-15/E3 QA230
Tetrachloroethane	U	U	0.5		1	11/09/12 15:51	TO-15/E3 QA230
Toluene	5.1	1.3	0.5		1	11/09/12 15:51	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	11/09/12 15:51	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	11/09/12 15:51	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	11/09/12 15:51	TO-15/E3 QA230
Trichloroethane	U	U	0.5		1	11/09/12 15:51	TO-15/E3 QA230
Trichlorofluoromethane	1.6	0.3	0.5	J	1	11/09/12 15:51	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/09/12 15:51	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/09/12 15:51	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	11/09/12 15:51	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	11/09/12 15:51	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	11/09/12 15:51	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limits	Expanded	Analysed	Method/SCDF
<i>Surrogate: Bromofluorobenzene</i>	9.67		97%	80-120	11/09/12	11/09/12 15:51	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5390



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-110912	Lab ID: 1211005-19
Sample Matrix: Air	Date Collected: 11/09/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCEN
Benzene	1.4	0.4	0.5	J	1	11/01/12 1639	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	11/01/12 1639	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	11/01/12 1639	TO-15/RS QA230
Bromoform	U	U	0.5		1	11/01/12 1639	TO-15/RS QA230
Bromoethane	U	U	0.5		1	11/01/12 1639	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	11/01/12 1639	TO-15/RS QA230
2-Butanone	1.9	0.6	0.5		1	11/01/12 1639	TO-15/RS QA230
Carbon disulfide	U	U	0.5		1	11/01/12 1639	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	11/01/12 1639	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	11/01/12 1639	TO-15/RS QA230
Chloroethane	U	U	0.5		1	11/01/12 1639	TO-15/RS QA230
Chloroform	U	U	0.5		1	11/01/12 1639	TO-15/RS QA230
Chloromethane	1.5	0.7	0.5		1	11/01/12 1639	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	11/01/12 1639	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	11/01/12 1639	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	11/01/12 1639	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	11/01/12 1639	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	11/01/12 1639	TO-15/RS QA230
Dichlorodifluoromethane	3.0	0.6	0.5		1	11/01/12 1639	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	11/01/12 1639	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	11/01/12 1639	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	11/01/12 1639	TO-15/RS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	11/01/12 1639	TO-15/RS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	11/01/12 1639	TO-15/RS QA230
1,2-Dichloropropene	U	U	0.5		1	11/01/12 1639	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	11/01/12 1639	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	11/01/12 1639	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	11/01/12 1639	TO-15/RS QA230
Ethanol	16.4	8.6	0.5		1	11/01/12 1639	TO-15/RS QA230
Ethylbenzene	0.7	0.2	0.5	J	1	11/01/12 1639	TO-15/RS QA230
Enon 113	U	U	0.5		1	11/01/12 1639	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	11/01/12 1639	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	11/01/12 1639	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	11/01/12 1639	TO-15/RS QA230
Methylene Chloride	1.7	0.5	0.5		1	11/01/12 1639	TO-15/RS QA230
Naphthalene	U	U	0.5		1	11/01/12 1639	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-110912	Lab ID: 1211005-19
Sample Matrix: Air	Date Collected: 11/09/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	11/30/12 16:39	TO-15/E3 Q4230
Styrene	U	U	0.5		1	11/30/12 16:39	TO-15/E3 Q4230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	11/30/12 16:39	TO-15/E3 Q4230
Tetrachloroethane	U	U	0.5		1	11/30/12 16:39	TO-15/E3 Q4230
Toluene	27.3	7.2	0.5		1	11/30/12 16:39	TO-15/E3 Q4230
1,2,4-Trichlorobenzene	U	U	0.5		1	11/30/12 16:39	TO-15/E3 Q4230
1,1,1-Trichloroethane	U	U	0.5		1	11/30/12 16:39	TO-15/E3 Q4230
1,1,2-Trichloroethane	U	U	0.5		1	11/30/12 16:39	TO-15/E3 Q4230
Trichloroethene	1.1	0.2	0.5	J	1	11/30/12 16:39	TO-15/E3 Q4230
Trichlorofluoromethane	1.6	0.3	0.5	J	1	11/30/12 16:39	TO-15/E3 Q4230
1,2,4-Trimethylbenzene	U	U	0.5		1	11/30/12 16:39	TO-15/E3 Q4230
1,3,5-Trimethylbenzene	U	U	0.5		1	11/30/12 16:39	TO-15/E3 Q4230
Vinyl chloride	U	U	0.5		1	11/30/12 16:39	TO-15/E3 Q4230
m,p-Xylene	1.7	0.4	1.0	J	1	11/30/12 16:39	TO-15/E3 Q4230
o-Xylene	U	U	0.5		1	11/30/12 16:39	TO-15/E3 Q4230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.69		97%	80-120	11/30/12	11/30/12 16:39	TO-15/E3 Q4230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5350



Site Name: Washington Co., PA
Station ID: BRIG-VOC-111212-1
Sample Matrix: Air

Project #: NSF 615
Lab ID: 1211015-01
Date Collected: 11/12/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDW
Benzene	0.6	0.2	0.5	J	1	12/03/12 23:53	TO-15/R3 QA230
Benzyl chloride	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
Bromodichloromethane	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
Bromofom	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
Bromomethane	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
1,3-Butadiene	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
2-Butanone	0.9	0.3	0.5	J	1	12/03/12 23:53	TO-15/R3 QA230
Carbon disulfide	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
Carbon Tetrachloride	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
Chlorobenzene	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
Chloroethane	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
Chloroform	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
Chloromethane	1.4	0.7	0.5		1	12/03/12 23:53	TO-15/R3 QA230
Dibromochloromethane	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
Dichlorodifluoromethane	3.1	0.6	0.5		1	12/03/12 23:53	TO-15/R3 QA230
1,1-Dichloroethane	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
1,2-Dichloroethane	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
1,1-Dichloroethene	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
1,2-Dichloropropane	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
Ethanol	5.3	2.8	0.5	L	1	12/03/12 23:53	TO-15/R3 QA230
Ethylbenzene	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
Freon 113	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
Hexachlorobutadiene	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
Methylene Chloride	0.6	0.2	0.5	J	1	12/03/12 23:53	TO-15/R3 QA230
Naphthalene	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-111212-1	Lab ID: 1211015-01
Sample Matrix: Air	Date Collected: 11/12/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF
Propylene	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
Styrene	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
Tetrachloroethene	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
Toluene	5.0	13	0.5		1	12/03/12 23:53	TO-15/R3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
Trichloroethene	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
Trichlorofluoromethane	1.5	0.3	0.5	J	1	12/03/12 23:53	TO-15/R3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
Vinyl chloride	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230
m,p-Xylene	U	U	1.0		1	12/03/12 23:53	TO-15/R3 QA230
o-Xylene	U	U	0.5		1	12/03/12 23:53	TO-15/R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limits	Prepared	Analysed	Method/SCDF
<i>Surrogate: Bromofluorobenzene</i>	9.38		96%	80-120	12/03/12	12/03/12 23:53	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-111212-2	Lab ID: 1211015-02
Sample Matrix: Air	Date Collected: 11/12/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/SCM#
Benzene	0.7	0.2	0.5	J	1	1203/12 13:14	TO-15/FS QA230
Benzyl chloride	U	U	0.5		1	1203/12 13:14	TO-15/FS QA230
Bromodichloromethane	U	U	0.5		1	1203/12 13:14	TO-15/FS QA230
Bromofom	U	U	0.5		1	1203/12 13:14	TO-15/FS QA230
Bromomethane	U	U	0.5		1	1203/12 13:14	TO-15/FS QA230
1,3-Butadiene	U	U	0.5		1	1203/12 13:14	TO-15/FS QA230
2-Butanone	1.1	0.4	0.5	J	1	1203/12 13:14	TO-15/FS QA230
Carbon disulfide	U	U	0.5		1	1203/12 13:14	TO-15/FS QA230
Carbon Tetrachloride	U	U	0.5		1	1203/12 13:14	TO-15/FS QA230
Chlorobenzene	U	U	0.5		1	1203/12 13:14	TO-15/FS QA230
Chloroethane	U	U	0.5		1	1203/12 13:14	TO-15/FS QA230
Chloroform	U	U	0.5		1	1203/12 13:14	TO-15/FS QA230
Chloromethane	1.4	0.6	0.5		1	1203/12 13:14	TO-15/FS QA230
Dibromochloromethane	U	U	0.5		1	1203/12 13:14	TO-15/FS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	1203/12 13:14	TO-15/FS QA230
1,2-Dichlorobenzene	U	U	0.5		1	1203/12 13:14	TO-15/FS QA230
1,3-Dichlorobenzene	U	U	0.5		1	1203/12 13:14	TO-15/FS QA230
1,4-Dichlorobenzene	U	U	0.5		1	1203/12 13:14	TO-15/FS QA230
Dichlorodifluoromethane	3.0	0.6	0.5		1	1203/12 13:14	TO-15/FS QA230
1,1-Dichloroethane	U	U	0.5		1	1203/12 13:14	TO-15/FS QA230
1,2-Dichloroethane	U	U	0.5		1	1203/12 13:14	TO-15/FS QA230
1,1-Dichloroethene	U	U	0.5		1	1203/12 13:14	TO-15/FS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	1203/12 13:14	TO-15/FS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	1203/12 13:14	TO-15/FS QA230
1,2-Dichloropropane	U	U	0.5		1	1203/12 13:14	TO-15/FS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	1203/12 13:14	TO-15/FS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	1203/12 13:14	TO-15/FS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	1203/12 13:14	TO-15/FS QA230
Ethanol	9.3	4.9	0.5		1	1203/12 13:14	TO-15/FS QA230
Ethylbenzene	U	U	0.5		1	1203/12 13:14	TO-15/FS QA230
Freon 113	U	U	0.5		1	1203/12 13:14	TO-15/FS QA230
Hexachlorobutadiene	U	U	0.5		1	1203/12 13:14	TO-15/FS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	1203/12 13:14	TO-15/FS QA230
4-Methyl-2-pentanone	U	U	0.5		1	1203/12 13:14	TO-15/FS QA230
Methylene Chloride	0.6	0.2	0.5	J	1	1203/12 13:14	TO-15/FS QA230
Naphthalene	1.1	0.2	0.5	J	1	1203/12 13:14	TO-15/FS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-111212-2	Lab ID: 1211015-02
Sample Matrix: Air	Date Collected: 11/12/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifies	Dilution	Analysed	Method/SCDH
Propylene	U	U	0.5		1	12/03/12 13:14	TO-15/RS QA230
Styrene	U	U	0.5		1	12/03/12 13:14	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	12/03/12 13:14	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	12/03/12 13:14	TO-15/RS QA230
Toluene	6.3	1.7	0.5		1	12/03/12 13:14	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	12/03/12 13:14	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	12/03/12 13:14	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	12/03/12 13:14	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	12/03/12 13:14	TO-15/RS QA230
Trichlorofluoromethane	1.5	0.3	0.5	J	1	12/03/12 13:14	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	12/03/12 13:14	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	12/03/12 13:14	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	12/03/12 13:14	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	12/03/12 13:14	TO-15/RS QA230
o-Xylene	U	U	0.5		1	12/03/12 13:14	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifies	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCDH
<i>Surrogate: Bromofluorobenzene</i>	9.70		97%	80-120	12/03/12	12/03/12 13:14	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-111212-2C0	Lab ID: 1211015-03
Sample Matrix: Air	Date Collected: 11/12/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Benzene	0.6	0.2	0.5	J	1	1203/12 14.01	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	1203/12 14.01	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	1203/12 14.01	TO-15/RS QA230
Bromofom	U	U	0.5		1	1203/12 14.01	TO-15/RS QA230
Bromomethane	U	U	0.5		1	1203/12 14.01	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	1203/12 14.01	TO-15/RS QA230
2-Butanone	1.0	0.3	0.5	J	1	1203/12 14.01	TO-15/RS QA230
Carbon disulfide	U	U	0.5		1	1203/12 14.01	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	1203/12 14.01	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	1203/12 14.01	TO-15/RS QA230
Chloroethane	U	U	0.5		1	1203/12 14.01	TO-15/RS QA230
Chloroform	U	U	0.5		1	1203/12 14.01	TO-15/RS QA230
Chloromethane	1.4	0.7	0.5		1	1203/12 14.01	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	1203/12 14.01	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	1203/12 14.01	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	1203/12 14.01	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	1203/12 14.01	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	1203/12 14.01	TO-15/RS QA230
Dichlorodifluoromethane	3.1	0.6	0.5		1	1203/12 14.01	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	1203/12 14.01	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	1203/12 14.01	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	1203/12 14.01	TO-15/RS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	1203/12 14.01	TO-15/RS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	1203/12 14.01	TO-15/RS QA230
1,2-Dichloropropane	U	U	0.5		1	1203/12 14.01	TO-15/RS QA230
cis-1,3-Dichloropropane	U	U	0.5		1	1203/12 14.01	TO-15/RS QA230
trans-1,3-Dichloropropane	U	U	0.5		1	1203/12 14.01	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	1203/12 14.01	TO-15/RS QA230
Ethanol	10.8	5.7	0.5		1	1203/12 14.01	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	1203/12 14.01	TO-15/RS QA230
Freon 113	U	U	0.5		1	1203/12 14.01	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	1203/12 14.01	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	1203/12 14.01	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	1203/12 14.01	TO-15/RS QA230
Methylene Chloride	0.6	0.2	0.5	J	1	1203/12 14.01	TO-15/RS QA230
Naphthalene	1.1	0.2	0.5	J	1	1203/12 14.01	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-111212-2C0	Lab ID: 1211015-03
Sample Matrix: Air	Date Collected: 11/12/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	12/03/12 14:01	TO-15/E3 QA230
Styrene	U	U	0.5		1	12/03/12 14:01	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	12/03/12 14:01	TO-15/E3 QA230
Tetrachloroethane	U	U	0.5		1	12/03/12 14:01	TO-15/E3 QA230
Toluene	1.9	0.5	0.5		1	12/03/12 14:01	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	12/03/12 14:01	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	12/03/12 14:01	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	12/03/12 14:01	TO-15/E3 QA230
Trichloroethane	U	U	0.5		1	12/03/12 14:01	TO-15/E3 QA230
Trichlorofluoromethane	1.5	0.3	0.5	J	1	12/03/12 14:01	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	12/03/12 14:01	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	12/03/12 14:01	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	12/03/12 14:01	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	12/03/12 14:01	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	12/03/12 14:01	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Prepared	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.69		97%	80-120	12/03/12	12/03/12 14:01	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-111212-3	Lab ID: 1211015-04
Sample Matrix: Air	Date Collected: 11/12/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualities	Dilution	Analysed	Method/SCDF#
Benzene	0.8	0.3	0.5	J	1	12/03/12 14:49	TO-15/ES QA230
Benzyl chloride	U	U	0.5		1	12/03/12 14:49	TO-15/ES QA230
Bromodichloromethane	U	U	0.5		1	12/03/12 14:49	TO-15/ES QA230
Bromoform	U	U	0.5		1	12/03/12 14:49	TO-15/ES QA230
Bromomethane	U	U	0.5		1	12/03/12 14:49	TO-15/ES QA230
1,3-Butadiene	U	U	0.5		1	12/03/12 14:49	TO-15/ES QA230
2-Butanone	1.0	0.3	0.5	J	1	12/03/12 14:49	TO-15/ES QA230
Carbon disulfide	U	U	0.5		1	12/03/12 14:49	TO-15/ES QA230
Carbon Tetrachloride	U	U	0.5		1	12/03/12 14:49	TO-15/ES QA230
Chlorobenzene	U	U	0.5		1	12/03/12 14:49	TO-15/ES QA230
Chloroethane	U	U	0.5		1	12/03/12 14:49	TO-15/ES QA230
Chloroform	U	U	0.5		1	12/03/12 14:49	TO-15/ES QA230
Chloromethane	1.5	0.7	0.5		1	12/03/12 14:49	TO-15/ES QA230
Dibromochloromethane	U	U	0.5		1	12/03/12 14:49	TO-15/ES QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	12/03/12 14:49	TO-15/ES QA230
1,2-Dichlorobenzene	U	U	0.5		1	12/03/12 14:49	TO-15/ES QA230
1,3-Dichlorobenzene	U	U	0.5		1	12/03/12 14:49	TO-15/ES QA230
1,4-Dichlorobenzene	U	U	0.5		1	12/03/12 14:49	TO-15/ES QA230
Dichlorodifluoromethane	3.2	0.6	0.5		1	12/03/12 14:49	TO-15/ES QA230
1,1-Dichloroethane	U	U	0.5		1	12/03/12 14:49	TO-15/ES QA230
1,2-Dichloroethane	U	U	0.5		1	12/03/12 14:49	TO-15/ES QA230
1,1-Dichloroethene	U	U	0.5		1	12/03/12 14:49	TO-15/ES QA230
cis-1,2-Dichloroethane	U	U	0.5		1	12/03/12 14:49	TO-15/ES QA230
trans-1,2-Dichloroethane	U	U	0.5		1	12/03/12 14:49	TO-15/ES QA230
1,2-Dichloropropene	U	U	0.5		1	12/03/12 14:49	TO-15/ES QA230
cis-1,3-Dichloropropene	U	U	0.5		1	12/03/12 14:49	TO-15/ES QA230
trans-1,3-Dichloropropene	U	U	0.5		1	12/03/12 14:49	TO-15/ES QA230
Dichlorotetrafluoroethane	U	U	0.5		1	12/03/12 14:49	TO-15/ES QA230
Ethanol	7.8	4.1	0.5		1	12/03/12 14:49	TO-15/ES QA230
Ethylbenzene	U	U	0.5		1	12/03/12 14:49	TO-15/ES QA230
Heon 113	U	U	0.5		1	12/03/12 14:49	TO-15/ES QA230
Hexachlorobutadiene	U	U	0.5		1	12/03/12 14:49	TO-15/ES QA230
Methyl tert-Butyl Ether	U	U	0.5		1	12/03/12 14:49	TO-15/ES QA230
4-Methyl-2-pentanone	U	U	0.5		1	12/03/12 14:49	TO-15/ES QA230
Methylene Chloride	0.6	0.2	0.5	J	1	12/03/12 14:49	TO-15/ES QA230
Naphthalene	1.1	0.2	0.5	J	1	12/03/12 14:49	TO-15/ES QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-111212-3	Lab ID: 1211015-04
Sample Matrix: Air	Date Collected: 11/12/2012

Volatile Organic Compounds
Targets (Continued)

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF#
Propylene	U	U	0.5		1	12/03/12 14:49	TO-15/E3 QA230
Styrene	U	U	0.5		1	12/03/12 14:49	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	12/03/12 14:49	TO-15/E3 QA230
Tetrachloroethene	U	U	0.5		1	12/03/12 14:49	TO-15/E3 QA230
Toluene	6.2	1.6	0.5		1	12/03/12 14:49	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	12/03/12 14:49	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	12/03/12 14:49	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	12/03/12 14:49	TO-15/E3 QA230
Trichloroethene	U	U	0.5		1	12/03/12 14:49	TO-15/E3 QA230
Trichlorofluoromethane	1.6	0.3	0.5	J	1	12/03/12 14:49	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	12/03/12 14:49	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	12/03/12 14:49	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	12/03/12 14:49	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	12/03/12 14:49	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	12/03/12 14:49	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Encourag Limit	Expanded	Analysed	Method/SCDF#
<i>Surrogate: Bromofluorobenzene</i>	9.70		97%	80-120	12/03/12	12/03/12 14:49	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5350



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-111212	Lab ID: 1211015-05
Sample Matrix: Air	Date Collected: 11/12/2012

Volatile Organic Compounds
Targets

Analyte	Esult µg/m3	Esult ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM
Benzene	0.7	0.2	0.5	J	1	1203/12 1538	TO-15/R3 QA230
Benzyl chloride	U	U	0.5		1	1203/12 1538	TO-15/R3 QA230
Bromodichloromethane	U	U	0.5		1	1203/12 1538	TO-15/R3 QA230
Bromoform	U	U	0.5		1	1203/12 1538	TO-15/R3 QA230
Bromoethane	U	U	0.5		1	1203/12 1538	TO-15/R3 QA230
1,3-Butadiene	U	U	0.5		1	1203/12 1538	TO-15/R3 QA230
2-Butanone	0.9	0.3	0.5	J	1	1203/12 1538	TO-15/R3 QA230
Carbon disulfide	U	U	0.5		1	1203/12 1538	TO-15/R3 QA230
Carbon Tetrachloride	U	U	0.5		1	1203/12 1538	TO-15/R3 QA230
Chlorobenzene	U	U	0.5		1	1203/12 1538	TO-15/R3 QA230
Chloroethane	U	U	0.5		1	1203/12 1538	TO-15/R3 QA230
Chloroform	U	U	0.5		1	1203/12 1538	TO-15/R3 QA230
Chloromethane	1.4	0.7	0.5		1	1203/12 1538	TO-15/R3 QA230
Dibromochloromethane	U	U	0.5		1	1203/12 1538	TO-15/R3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	1203/12 1538	TO-15/R3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	1203/12 1538	TO-15/R3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	1203/12 1538	TO-15/R3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	1203/12 1538	TO-15/R3 QA230
Dichlorodifluoromethane	3.2	0.6	0.5		1	1203/12 1538	TO-15/R3 QA230
1,1-Dichloroethane	U	U	0.5		1	1203/12 1538	TO-15/R3 QA230
1,2-Dichloroethane	U	U	0.5		1	1203/12 1538	TO-15/R3 QA230
1,1-Dichloroethene	U	U	0.5		1	1203/12 1538	TO-15/R3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	1203/12 1538	TO-15/R3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	1203/12 1538	TO-15/R3 QA230
1,2-Dichloropropane	U	U	0.5		1	1203/12 1538	TO-15/R3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	1203/12 1538	TO-15/R3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	1203/12 1538	TO-15/R3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	1203/12 1538	TO-15/R3 QA230
Ethanol	7.2	3.8	0.5		1	1203/12 1538	TO-15/R3 QA230
Ethylbenzene	U	U	0.5		1	1203/12 1538	TO-15/R3 QA230
Freon 113	U	U	0.5		1	1203/12 1538	TO-15/R3 QA230
Hexachlorobutadiene	U	U	0.5		1	1203/12 1538	TO-15/R3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	1203/12 1538	TO-15/R3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	1203/12 1538	TO-15/R3 QA230
Methylene Chloride	0.6	0.2	0.5	J	1	1203/12 1538	TO-15/R3 QA230
Naphthalene	1.1	0.2	0.5	J	1	1203/12 1538	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-111212	Lab ID: 1211015-05
Sample Matrix: Air	Date Collected: 11/12/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDW
Propylene	U	U	0.5		1	12/03/12 15:38	TO-15/R3 Q4230
Styrene	U	U	0.5		1	12/03/12 15:38	TO-15/R3 Q4230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	12/03/12 15:38	TO-15/R3 Q4230
Tetrachloroethene	U	U	0.5		1	12/03/12 15:38	TO-15/R3 Q4230
Toluene	2.7	0.7	0.5		1	12/03/12 15:38	TO-15/R3 Q4230
1,2,4-Trichlorobenzene	U	U	0.5		1	12/03/12 15:38	TO-15/R3 Q4230
1,1,1-Trichloroethane	U	U	0.5		1	12/03/12 15:38	TO-15/R3 Q4230
1,1,2-Trichloroethane	U	U	0.5		1	12/03/12 15:38	TO-15/R3 Q4230
Trichloroethene	U	U	0.5		1	12/03/12 15:38	TO-15/R3 Q4230
Trichlorofluoromethane	1.6	0.3	0.5	J	1	12/03/12 15:38	TO-15/R3 Q4230
1,2,4-Trimethylbenzene	U	U	0.5		1	12/03/12 15:38	TO-15/R3 Q4230
1,3,5-Trimethylbenzene	U	U	0.5		1	12/03/12 15:38	TO-15/R3 Q4230
Vinyl chloride	U	U	0.5		1	12/03/12 15:38	TO-15/R3 Q4230
m,p-Xylene	U	U	1.0		1	12/03/12 15:38	TO-15/R3 Q4230
o-Xylene	U	U	0.5		1	12/03/12 15:38	TO-15/R3 Q4230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery Limit	Prepared	Analysed	Method/SCDW	
<i>Surrogate: Bromofluorobenzene</i>	9.71		97%	80-120	12/03/12	12/03/12 15:38	TO-15/R3 Q4230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-111512-1	Lab ID: 1211015-06
Sample Matrix: Air	Date Collected: 11/15/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Benzene	1.5	0.5	0.5		1	12/03/12 16:27	TO-15/E3 QA230
Benzyl chloride	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
Bromodichloromethane	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
Bromofom	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
Bromomethane	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
1,3-Butadiene	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
2-Butanone	0.8	0.3	0.5	J	1	12/03/12 16:27	TO-15/E3 QA230
Carbon disulfide	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
Carbon Tetrachloride	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
Chlorobenzene	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
Chloroethane	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
Chloroform	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
Chloromethane	1.3	0.6	0.5		1	12/03/12 16:27	TO-15/E3 QA230
Dibromochloromethane	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
Dichlorodifluoromethane	3.1	0.6	0.5		1	12/03/12 16:27	TO-15/E3 QA230
1,1-Dichloroethane	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
1,2-Dichloroethane	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
1,1-Dichloroethene	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
cis-1,2-Dichloroethane	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
trans-1,2-Dichloroethane	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
1,2-Dichloropropane	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
Ethanol	5.1	2.7	0.5		1	12/03/12 16:27	TO-15/E3 QA230
Ethylbenzene	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
Freon 113	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
Hexachlorobutadiene	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
Methylene Chloride	0.7	0.2	0.5	J	1	12/03/12 16:27	TO-15/E3 QA230
Naphthalene	1.1	0.2	0.5	J	1	12/03/12 16:27	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-111512-1	Lab ID: 1211015-06
Sample Matrix: Air	Date Collected: 11/15/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDW
Propylene	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
Styrene	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
Tetrachloroethene	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
Toluene	2.1	0.6	0.5		1	12/03/12 16:27	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
Trichloroethene	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
Trichlorofluoromethane	1.5	0.3	0.5	J	1	12/03/12 16:27	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	12/03/12 16:27	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	12/03/12 16:27	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Prepared	Analysed	Method/SCDW
<i>Surrogate: Bromofluorobenzene</i>	9.55		96%	80-120	12/03/12	12/03/12 16:27	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI)Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-111512-2	Lab ID: 1211015-07
Sample Matrix: Air	Date Collected: 11/15/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Benzene	1.5	0.4	0.5	J	1	12/03/12 17:15	TO-15/FS QA230
Benzyl chloride	U	U	0.5		1	12/03/12 17:15	TO-15/FS QA230
Bromodichloromethane	U	U	0.5		1	12/03/12 17:15	TO-15/FS QA230
Bromoform	U	U	0.5		1	12/03/12 17:15	TO-15/FS QA230
Bromoethane	U	U	0.5		1	12/03/12 17:15	TO-15/FS QA230
1,3-Butadiene	U	U	0.5		1	12/03/12 17:15	TO-15/FS QA230
2-Butanone	U	U	0.5		1	12/03/12 17:15	TO-15/FS QA230
Carbon disulfide	U	U	0.5		1	12/03/12 17:15	TO-15/FS QA230
Carbon Tetrachloride	U	U	0.5		1	12/03/12 17:15	TO-15/FS QA230
Chlorobenzene	U	U	0.5		1	12/03/12 17:15	TO-15/FS QA230
Chloroethane	U	U	0.5		1	12/03/12 17:15	TO-15/FS QA230
Chloroform	U	U	0.5		1	12/03/12 17:15	TO-15/FS QA230
Chloromethane	1.3	0.6	0.5		1	12/03/12 17:15	TO-15/FS QA230
Dibromochloromethane	U	U	0.5		1	12/03/12 17:15	TO-15/FS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	12/03/12 17:15	TO-15/FS QA230
1,2-Dichlorobenzene	U	U	0.5		1	12/03/12 17:15	TO-15/FS QA230
1,3-Dichlorobenzene	U	U	0.5		1	12/03/12 17:15	TO-15/FS QA230
1,4-Dichlorobenzene	U	U	0.5		1	12/03/12 17:15	TO-15/FS QA230
Dichlorodifluoromethane	3.1	0.6	0.5		1	12/03/12 17:15	TO-15/FS QA230
1,1-Dichloroethane	U	U	0.5		1	12/03/12 17:15	TO-15/FS QA230
1,2-Dichloroethane	U	U	0.5		1	12/03/12 17:15	TO-15/FS QA230
1,1-Dichloroethene	U	U	0.5		1	12/03/12 17:15	TO-15/FS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	12/03/12 17:15	TO-15/FS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	12/03/12 17:15	TO-15/FS QA230
1,2-Dichloropropane	U	U	0.5		1	12/03/12 17:15	TO-15/FS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	12/03/12 17:15	TO-15/FS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	12/03/12 17:15	TO-15/FS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	12/03/12 17:15	TO-15/FS QA230
Ethanol	5.7	3.0	0.5		1	12/03/12 17:15	TO-15/FS QA230
Ethylbenzene	U	U	0.5		1	12/03/12 17:15	TO-15/FS QA230
Freon 113	U	U	0.5		1	12/03/12 17:15	TO-15/FS QA230
Hexachlorobutadiene	U	U	0.5		1	12/03/12 17:15	TO-15/FS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	12/03/12 17:15	TO-15/FS QA230
4-Methyl-2-pentanone	U	U	0.5		1	12/03/12 17:15	TO-15/FS QA230
Methylene Chloride	0.7	0.2	0.5	J	1	12/03/12 17:15	TO-15/FS QA230
Naphthalene	1.1	0.2	0.5	J	1	12/03/12 17:15	TO-15/FS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-111512-2	Lab ID: 1211015-07
Sample Matrix: Air	Date Collected: 11/15/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDW
Propylene	U	U	0.5		1	12/03/12 17:15	TO-15/RS QA230
Styrene	U	U	0.5		1	12/03/12 17:15	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	12/03/12 17:15	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	12/03/12 17:15	TO-15/RS QA230
Toluene	2.3	0.6	0.5		1	12/03/12 17:15	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	12/03/12 17:15	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	12/03/12 17:15	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	12/03/12 17:15	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	12/03/12 17:15	TO-15/RS QA230
Trichlorofluoromethane	1.5	0.3	0.5	J	1	12/03/12 17:15	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	12/03/12 17:15	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	12/03/12 17:15	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	12/03/12 17:15	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	12/03/12 17:15	TO-15/RS QA230
o-Xylene	U	U	0.5		1	12/03/12 17:15	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limits	Prepared	Analysed	Method/SCDW
<i>Surrogate: Bromofluorobenzene</i>	9.54		95%	80-120	12/03/12	12/03/12 17:15	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-111512-2C0	Lab ID: 1211015-08
Sample Matrix: Air	Date Collected: 11/15/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualities	Dilution	Analysed	Method/SCM#
Benzene	1.2	0.4	0.5	J	1	12/03/12 23 06	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	12/03/12 23 06	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	12/03/12 23 06	TO-15/RS QA230
Bromofom	U	U	0.5		1	12/03/12 23 06	TO-15/RS QA230
Bromomethane	U	U	0.5		1	12/03/12 23 06	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	12/03/12 23 06	TO-15/RS QA230
2-Butanone	0.8	0.3	0.5	J	1	12/03/12 23 06	TO-15/RS QA230
Carbon disulfide	U	U	0.5		1	12/03/12 23 06	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	12/03/12 23 06	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	12/03/12 23 06	TO-15/RS QA230
Chloroethane	U	U	0.5		1	12/03/12 23 06	TO-15/RS QA230
Chlorofom	U	U	0.5		1	12/03/12 23 06	TO-15/RS QA230
Chloromethane	1.4	0.7	0.5		1	12/03/12 23 06	TO-15/RS QA230
Dibromodichloromethane	U	U	0.5		1	12/03/12 23 06	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	12/03/12 23 06	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	12/03/12 23 06	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	12/03/12 23 06	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	12/03/12 23 06	TO-15/RS QA230
Dichlorodifluoromethane	3.1	0.6	0.5		1	12/03/12 23 06	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	12/03/12 23 06	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	12/03/12 23 06	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	12/03/12 23 06	TO-15/RS QA230
cis-1,2-Dichloroethane	U	U	0.5		1	12/03/12 23 06	TO-15/RS QA230
trans-1,2-Dichloroethane	U	U	0.5		1	12/03/12 23 06	TO-15/RS QA230
1,2-Dichloropropane	U	U	0.5		1	12/03/12 23 06	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	12/03/12 23 06	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	12/03/12 23 06	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	12/03/12 23 06	TO-15/RS QA230
Ethanol	95.4	50.2	2.0		4	12/04/12 10 06	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	12/03/12 23 06	TO-15/RS QA230
Etion 113	U	U	0.5		1	12/03/12 23 06	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	12/03/12 23 06	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	12/03/12 23 06	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	12/03/12 23 06	TO-15/RS QA230
Methylene Chloride	0.6	0.2	0.5	J	1	12/03/12 23 06	TO-15/RS QA230
Naphthalene	U	U	0.5		1	12/03/12 23 06	TO-15/RS QA230

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-111512-2C0	Lab ID: 1211015-08
Sample Matrix: Air	Date Collected: 11/15/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	12/03/12 23:06	TO-15/RS QA230
Styrene	U	U	0.5		1	12/03/12 23:06	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	12/03/12 23:06	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	12/03/12 23:06	TO-15/RS QA230
Toluene	1.5	0.4	0.5	J	1	12/03/12 23:06	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	12/03/12 23:06	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	12/03/12 23:06	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	12/03/12 23:06	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	12/03/12 23:06	TO-15/RS QA230
Trichlorofluoromethane	1.5	0.3	0.5	J	1	12/03/12 23:06	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	12/03/12 23:06	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	12/03/12 23:06	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	12/03/12 23:06	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	12/03/12 23:06	TO-15/RS QA230
o-Xylene	U	U	0.5		1	12/03/12 23:06	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Encovary Limit	Prepared	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.60		96%	80-120	12/03/12	12/03/12 23:06	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-111512-3	Lab ID: 1211015-09
Sample Matrix: Air	Date Collected: 11/15/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/SCM#
Benzene	1.6	0.5	0.5		1	12/03/12 18:04	TO-15/E3 Q4230
Benzyl chloride	U	U	0.5		1	12/03/12 18:04	TO-15/E3 Q4230
Bromodichloroethane	U	U	0.5		1	12/03/12 18:04	TO-15/E3 Q4230
Bromoforn	U	U	0.5		1	12/03/12 18:04	TO-15/E3 Q4230
Bromomethane	U	U	0.5		1	12/03/12 18:04	TO-15/E3 Q4230
1,3-Butadiene	U	U	0.5		1	12/03/12 18:04	TO-15/E3 Q4230
2-Butanone	1.0	0.3	0.5	J	1	12/03/12 18:04	TO-15/E3 Q4230
Carbon disulfide	U	U	0.5		1	12/03/12 18:04	TO-15/E3 Q4230
Carbon Tetrachloride	U	U	0.5		1	12/03/12 18:04	TO-15/E3 Q4230
Chlorobenzene	U	U	0.5		1	12/03/12 18:04	TO-15/E3 Q4230
Chloroethane	U	U	0.5		1	12/03/12 18:04	TO-15/E3 Q4230
Chloroform	U	U	0.5		1	12/03/12 18:04	TO-15/E3 Q4230
Chloromethane	1.4	0.7	0.5		1	12/03/12 18:04	TO-15/E3 Q4230
Dibromochloroethane	U	U	0.5		1	12/03/12 18:04	TO-15/E3 Q4230
1,2-Dibromoethane (EDB)	U	U	0.5		1	12/03/12 18:04	TO-15/E3 Q4230
1,2-Dichlorobenzene	U	U	0.5		1	12/03/12 18:04	TO-15/E3 Q4230
1,3-Dichlorobenzene	U	U	0.5		1	12/03/12 18:04	TO-15/E3 Q4230
1,4-Dichlorobenzene	U	U	0.5		1	12/03/12 18:04	TO-15/E3 Q4230
Dichlorodifluoromethane	3.3	0.7	0.5		1	12/03/12 18:04	TO-15/E3 Q4230
1,1-Dichloroethane	U	U	0.5		1	12/03/12 18:04	TO-15/E3 Q4230
1,2-Dichloroethane	U	U	0.5		1	12/03/12 18:04	TO-15/E3 Q4230
1,1-Dichloroethene	U	U	0.5		1	12/03/12 18:04	TO-15/E3 Q4230
cis-1,2-Dichloroethene	U	U	0.5		1	12/03/12 18:04	TO-15/E3 Q4230
trans-1,2-Dichloroethene	U	U	0.5		1	12/03/12 18:04	TO-15/E3 Q4230
1,2-Dichloropropane	U	U	0.5		1	12/03/12 18:04	TO-15/E3 Q4230
cis-1,3-Dichloropropene	U	U	0.5		1	12/03/12 18:04	TO-15/E3 Q4230
trans-1,3-Dichloropropene	U	U	0.5		1	12/03/12 18:04	TO-15/E3 Q4230
Dichlorotetrafluoroethane	U	U	0.5		1	12/03/12 18:04	TO-15/E3 Q4230
Ethanol	U	U	0.5		1	12/03/12 18:04	TO-15/E3 Q4230
Ethylbenzene	U	U	0.5		1	12/03/12 18:04	TO-15/E3 Q4230
Freon 113	U	U	0.5		1	12/03/12 18:04	TO-15/E3 Q4230
Hexachlorobutadiene	U	U	0.5		1	12/03/12 18:04	TO-15/E3 Q4230
Methyl tert-Butyl Ether	U	U	0.5		1	12/03/12 18:04	TO-15/E3 Q4230
4-Methyl-2-pentanone	U	U	0.5		1	12/03/12 18:04	TO-15/E3 Q4230
Methylene Chloride	0.7	0.2	0.5	J	1	12/03/12 18:04	TO-15/E3 Q4230
Naphthalene	1.1	0.2	0.5	J	1	12/03/12 18:04	TO-15/E3 Q4230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-111512-3	Lab ID: 1211015-09
Sample Matrix: Air	Date Collected: 11/15/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/REF
Propylene	U	U	0.5		1	12/03/12 18:04	TO-15/RS QA230
Styrene	U	U	0.5		1	12/03/12 18:04	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	12/03/12 18:04	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	12/03/12 18:04	TO-15/RS QA230
Toluene	2.4	0.6	0.5		1	12/03/12 18:04	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	12/03/12 18:04	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	12/03/12 18:04	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	12/03/12 18:04	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	12/03/12 18:04	TO-15/RS QA230
Trichlorofluoromethane	1.6	0.3	0.5	J	1	12/03/12 18:04	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	12/03/12 18:04	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	12/03/12 18:04	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	12/03/12 18:04	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	12/03/12 18:04	TO-15/RS QA230
o-Xylene	U	U	0.5		1	12/03/12 18:04	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Prepared	Analysed	Method/REF
<i>Surrogate: Bromofluorobenzene</i>	9.62		96%	80-120	12/03/12	12/03/12 18:04	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-111512	Lab ID: 1211015-10
Sample Matrix: Air	Date Collected: 11/15/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifies	Dilution	Analysed	Method/SCHE
Benzene	1.2	0.4	0.5	J	1	12/03/12 18:51	TO-15/R3 QA230
Benzyl chloride	U	U	0.5		1	12/03/12 18:51	TO-15/R3 QA230
Bromodichloromethane	U	U	0.5		1	12/03/12 18:51	TO-15/R3 QA230
Bromoform	U	U	0.5		1	12/03/12 18:51	TO-15/R3 QA230
Bromomethane	U	U	0.5		1	12/03/12 18:51	TO-15/R3 QA230
1,3-Butadiene	U	U	0.5		1	12/03/12 18:51	TO-15/R3 QA230
2-Butanone	U	U	0.5		1	12/03/12 18:51	TO-15/R3 QA230
Carbon disulfide	U	U	0.5		1	12/03/12 18:51	TO-15/R3 QA230
Carbon Tetrachloride	U	U	0.5		1	12/03/12 18:51	TO-15/R3 QA230
Chlorobenzene	U	U	0.5		1	12/03/12 18:51	TO-15/R3 QA230
Chloroethane	U	U	0.5		1	12/03/12 18:51	TO-15/R3 QA230
Chloroform	U	U	0.5		1	12/03/12 18:51	TO-15/R3 QA230
Chloromethane	1.1	0.6	0.5		1	12/03/12 18:51	TO-15/R3 QA230
Dibromochloromethane	U	U	0.5		1	12/03/12 18:51	TO-15/R3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	12/03/12 18:51	TO-15/R3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	12/03/12 18:51	TO-15/R3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	12/03/12 18:51	TO-15/R3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	12/03/12 18:51	TO-15/R3 QA230
Dichlorodifluoromethane	3.0	0.6	0.5		1	12/03/12 18:51	TO-15/R3 QA230
1,1-Dichloroethane	U	U	0.5		1	12/03/12 18:51	TO-15/R3 QA230
1,2-Dichloroethane	U	U	0.5		1	12/03/12 18:51	TO-15/R3 QA230
1,1-Dichloroethene	U	U	0.5		1	12/03/12 18:51	TO-15/R3 QA230
cis-1,2-Dichloroethane	U	U	0.5		1	12/03/12 18:51	TO-15/R3 QA230
trans-1,2-Dichloroethane	U	U	0.5		1	12/03/12 18:51	TO-15/R3 QA230
1,2-Dichloropropene	U	U	0.5		1	12/03/12 18:51	TO-15/R3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	12/03/12 18:51	TO-15/R3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	12/03/12 18:51	TO-15/R3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	12/03/12 18:51	TO-15/R3 QA230
Ethanol	3.4	1.8	0.5		1	12/03/12 18:51	TO-15/R3 QA230
Ethylbenzene	U	U	0.5		1	12/03/12 18:51	TO-15/R3 QA230
Freon 113	U	U	0.5		1	12/03/12 18:51	TO-15/R3 QA230
Hexachlorobutadiene	U	U	0.5		1	12/03/12 18:51	TO-15/R3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	12/03/12 18:51	TO-15/R3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	12/03/12 18:51	TO-15/R3 QA230
Methylene Chloride	0.6	0.2	0.5	J	1	12/03/12 18:51	TO-15/R3 QA230
Naphthalene	U	U	0.5		1	12/03/12 18:51	TO-15/R3 QA230

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-111512	Lab ID: 1211015-10
Sample Matrix: Air	Date Collected: 11/15/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCHE
Propylene	U	U	0.5		1	12/03/12 18:51	TO-15/RS QA230
Styrene	U	U	0.5		1	12/03/12 18:51	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	12/03/12 18:51	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	12/03/12 18:51	TO-15/RS QA230
Toluene	1.3	0.4	0.5	J	1	12/03/12 18:51	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	12/03/12 18:51	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	12/03/12 18:51	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	12/03/12 18:51	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	12/03/12 18:51	TO-15/RS QA230
Trichlorofluoromethane	1.5	0.3	0.5	J	1	12/03/12 18:51	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	12/03/12 18:51	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	12/03/12 18:51	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	12/03/12 18:51	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	12/03/12 18:51	TO-15/RS QA230
o-Xylene	U	U	0.5		1	12/03/12 18:51	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limits	Prepared	Analysed	Method/SCHE
<i>Surrogate: Bromofluorobenzene</i>	9.50		95%	80-120	12/03/12	12/03/12 18:51	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-111712-2	Lab ID: 1211015-11
Sample Matrix: Air	Date Collected: 11/17/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Benzene	1.2	0.4	0.5	J	1	12/03/12 19:39	TO-15/ES QA230
Benzyl chloride	U	U	0.5		1	12/03/12 19:39	TO-15/ES QA230
Bromodichloromethane	U	U	0.5		1	12/03/12 19:39	TO-15/ES QA230
Bromofom	U	U	0.5		1	12/03/12 19:39	TO-15/ES QA230
Bromomethane	U	U	0.5		1	12/03/12 19:39	TO-15/ES QA230
1,3-Butadiene	U	U	0.5		1	12/03/12 19:39	TO-15/ES QA230
2-Butanone	0.7	0.2	0.5	J	1	12/03/12 19:39	TO-15/ES QA230
Carbon disulfide	U	U	0.5		1	12/03/12 19:39	TO-15/ES QA230
Carbon Tetrachloride	U	U	0.5		1	12/03/12 19:39	TO-15/ES QA230
Chlorobenzene	U	U	0.5		1	12/03/12 19:39	TO-15/ES QA230
Chloroethane	U	U	0.5		1	12/03/12 19:39	TO-15/ES QA230
Chloroform	U	U	0.5		1	12/03/12 19:39	TO-15/ES QA230
Chloromethane	1.2	0.6	0.5		1	12/03/12 19:39	TO-15/ES QA230
Dibromochloromethane	U	U	0.5		1	12/03/12 19:39	TO-15/ES QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	12/03/12 19:39	TO-15/ES QA230
1,2-Dichlorobenzene	U	U	0.5		1	12/03/12 19:39	TO-15/ES QA230
1,3-Dichlorobenzene	U	U	0.5		1	12/03/12 19:39	TO-15/ES QA230
1,4-Dichlorobenzene	U	U	0.5		1	12/03/12 19:39	TO-15/ES QA230
Dichlorodifluoromethane	3.1	0.6	0.5		1	12/03/12 19:39	TO-15/ES QA230
1,1-Dichloroethane	U	U	0.5		1	12/03/12 19:39	TO-15/ES QA230
1,2-Dichloroethane	U	U	0.5		1	12/03/12 19:39	TO-15/ES QA230
1,1-Dichloroethene	U	U	0.5		1	12/03/12 19:39	TO-15/ES QA230
cis-1,2-Dichloroethene	U	U	0.5		1	12/03/12 19:39	TO-15/ES QA230
trans-1,2-Dichloroethene	U	U	0.5		1	12/03/12 19:39	TO-15/ES QA230
1,2-Dichloropropene	U	U	0.5		1	12/03/12 19:39	TO-15/ES QA230
cis-1,3-Dichloropropene	U	U	0.5		1	12/03/12 19:39	TO-15/ES QA230
trans-1,3-Dichloropropene	U	U	0.5		1	12/03/12 19:39	TO-15/ES QA230
Dichlorotetrafluoroethane	U	U	0.5		1	12/03/12 19:39	TO-15/ES QA230
Ethanol	8.3	4.4	0.5		1	12/03/12 19:39	TO-15/ES QA230
Ethylbenzene	U	U	0.5		1	12/03/12 19:39	TO-15/ES QA230
Freon 113	U	U	0.5		1	12/03/12 19:39	TO-15/ES QA230
Hexachlorobutadiene	U	U	0.5		1	12/03/12 19:39	TO-15/ES QA230
Methyl tert-Butyl Ether	U	U	0.5		1	12/03/12 19:39	TO-15/ES QA230
4-Methyl-2-pentanone	U	U	0.5		1	12/03/12 19:39	TO-15/ES QA230
Methylene Chloride	0.6	0.2	0.5	J	1	12/03/12 19:39	TO-15/ES QA230
Naphthalene	U	U	0.5		1	12/03/12 19:39	TO-15/ES QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5390



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-111712-2	Lab ID: 1211015-11
Sample Matrix: Air	Date Collected: 11/17/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SOP#
Propylene	U	U	0.5		1	12/03/12 19:39	TO-15/E3 Q4230
Styrene	U	U	0.5		1	12/03/12 19:39	TO-15/E3 Q4230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	12/03/12 19:39	TO-15/E3 Q4230
Tetrachloroethane	U	U	0.5		1	12/03/12 19:39	TO-15/E3 Q4230
Toluene	2.4	0.6	0.5		1	12/03/12 19:39	TO-15/E3 Q4230
1,2,4-Trichlorobenzene	U	U	0.5		1	12/03/12 19:39	TO-15/E3 Q4230
1,1,1-Trichloroethane	U	U	0.5		1	12/03/12 19:39	TO-15/E3 Q4230
1,1,2-Trichloroethane	U	U	0.5		1	12/03/12 19:39	TO-15/E3 Q4230
Trichloroethane	U	U	0.5		1	12/03/12 19:39	TO-15/E3 Q4230
Trichlorofluoromethane	1.5	0.3	0.5	J	1	12/03/12 19:39	TO-15/E3 Q4230
1,2,4-Trimethylbenzene	U	U	0.5		1	12/03/12 19:39	TO-15/E3 Q4230
1,3,5-Trimethylbenzene	U	U	0.5		1	12/03/12 19:39	TO-15/E3 Q4230
Vinyl chloride	U	U	0.5		1	12/03/12 19:39	TO-15/E3 Q4230
m,p-Xylene	U	U	1.0		1	12/03/12 19:39	TO-15/E3 Q4230
o-Xylene	U	U	0.5		1	12/03/12 19:39	TO-15/E3 Q4230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Encroby Limit	Expanded	Analysed	Method/SOP#
<i>Surrogate: Bromofluorobenzene</i>	9.55		96%	80-120	12/03/12	12/03/12 19:39	TO-15/E3 Q4230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-111712-200	Lab ID: 1211015-12
Sample Matrix: Air	Date Collected: 11/17/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Benzene	1.1	0.3	0.5	J	1	12/03/12 20:29	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
Bromoform	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
Bromomethane	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
2-Butanone	0.8	0.3	0.5	J	1	12/03/12 20:29	TO-15/RS QA230
Carbon disulfide	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
Chloroethane	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
Chloroform	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
Chloromethane	1.2	0.6	0.5		1	12/03/12 20:29	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
Dichlorodifluoromethane	3.0	0.6	0.5		1	12/03/12 20:29	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
1,2-Dichloropropene	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
Ethanol	122	64.3	2.5		5	12/04/12 10:51	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
Freon 113	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
Methylene Chloride	0.6	0.2	0.5	J	1	12/03/12 20:29	TO-15/RS QA230
Naphthalene	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-111712-2o	Lab ID: 1211015-12
Sample Matrix: Air	Date Collected: 11/07/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM
Propylene	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
Styrene	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
Toluene	1.4	0.4	0.5	J	1	12/03/12 20:29	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
Trichlorofluoromethane	1.5	0.3	0.5	J	1	12/03/12 20:29	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	12/03/12 20:29	TO-15/RS QA230
o-Xylene	U	U	0.5		1	12/03/12 20:29	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery Recovery	%Recovery Limit	Expanded	Analysed	Method/SCM
<i>Surrogate: Bromofluorobenzene</i>	9.55		96%	80-120	12/03/12	12/03/12 20:29	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5350



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-111712-3	Lab ID: 1211015-13
Sample Matrix: Air	Date Collected: 11/27/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/SCDF
Benzene	1.5	0.4	0.5	J	1	1203/12 21:17	TO-15/R3 QA230
Benzyl chloride	U	U	0.5		1	1203/12 21:17	TO-15/R3 QA230
Bromodichloromethane	U	U	0.5		1	1203/12 21:17	TO-15/R3 QA230
Bromoform	U	U	0.5		1	1203/12 21:17	TO-15/R3 QA230
Bromoethane	U	U	0.5		1	1203/12 21:17	TO-15/R3 QA230
1,3-Butadiene	U	U	0.5		1	1203/12 21:17	TO-15/R3 QA230
2-Butanone	1.2	0.4	0.5	J	1	1203/12 21:17	TO-15/R3 QA230
Carbon disulfide	U	U	0.5		1	1203/12 21:17	TO-15/R3 QA230
Carbon Tetrachloride	U	U	0.5		1	1203/12 21:17	TO-15/R3 QA230
Chlorobenzene	U	U	0.5		1	1203/12 21:17	TO-15/R3 QA230
Chloroethane	U	U	0.5		1	1203/12 21:17	TO-15/R3 QA230
Chloroform	U	U	0.5		1	1203/12 21:17	TO-15/R3 QA230
Chloromethane	1.3	0.6	0.5		1	1203/12 21:17	TO-15/R3 QA230
Dibromochloromethane	U	U	0.5		1	1203/12 21:17	TO-15/R3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	1203/12 21:17	TO-15/R3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	1203/12 21:17	TO-15/R3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	1203/12 21:17	TO-15/R3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	1203/12 21:17	TO-15/R3 QA230
Dichlorodifluoromethane	3.1	0.6	0.5		1	1203/12 21:17	TO-15/R3 QA230
1,1-Dichloroethane	U	U	0.5		1	1203/12 21:17	TO-15/R3 QA230
1,2-Dichloroethane	U	U	0.5		1	1203/12 21:17	TO-15/R3 QA230
1,1-Dichloroethene	U	U	0.5		1	1203/12 21:17	TO-15/R3 QA230
cis-1,2-Dichloroethane	U	U	0.5		1	1203/12 21:17	TO-15/R3 QA230
trans-1,2-Dichloroethane	U	U	0.5		1	1203/12 21:17	TO-15/R3 QA230
1,2-Dichloropropene	U	U	0.5		1	1203/12 21:17	TO-15/R3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	1203/12 21:17	TO-15/R3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	1203/12 21:17	TO-15/R3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	1203/12 21:17	TO-15/R3 QA230
Ethanol	7.2	3.8	0.5		1	1203/12 21:17	TO-15/R3 QA230
Ethylbenzene	U	U	0.5		1	1203/12 21:17	TO-15/R3 QA230
Freon 113	U	U	0.5		1	1203/12 21:17	TO-15/R3 QA230
Hexachlorobutadiene	U	U	0.5		1	1203/12 21:17	TO-15/R3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	1203/12 21:17	TO-15/R3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	1203/12 21:17	TO-15/R3 QA230
Methylene Chloride	0.7	0.2	0.5	J	1	1203/12 21:17	TO-15/R3 QA230
Naphthalene	U	U	0.5		1	1203/12 21:17	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-111712-3	Lab ID: 1211015-13
Sample Matrix: Air	Date Collected: 11/17/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDH
Propylene	U	U	0.5		1	12/03/12 21:17	TO-15/RS QA230
Styrene	U	U	0.5		1	12/03/12 21:17	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	12/03/12 21:17	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	12/03/12 21:17	TO-15/RS QA230
Toluene	2.8	0.7	0.5		1	12/03/12 21:17	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	12/03/12 21:17	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	12/03/12 21:17	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	12/03/12 21:17	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	12/03/12 21:17	TO-15/RS QA230
Trichlorofluoromethane	1.5	0.3	0.5	J	1	12/03/12 21:17	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	12/03/12 21:17	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	12/03/12 21:17	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	12/03/12 21:17	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	12/03/12 21:17	TO-15/RS QA230
o-Xylene	U	U	0.5		1	12/03/12 21:17	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Encosity Limit	Expanded	Analysed	Method/SCDH
<i>Surrogate: Bromofluorobenzene</i>	9.56		96%	80-120	12/03/12	12/03/12 21:17	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5390



Site Name: Washington Co., PA
Station ID: FLO-VOC-111712
Sample Matrix: Air

Project #: NSF 615
Lab ID: 1211015-14
Date Collected: 11/17/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/SCM#
Benzene	0.9	0.3	0.5	J	1	12/03/12 22:07	TO-15/F3 QA230
Benzyl chloride	U	U	0.5		1	12/03/12 22:07	TO-15/F3 QA230
Bromodichloromethane	U	U	0.5		1	12/03/12 22:07	TO-15/F3 QA230
Bromofom	U	U	0.5		1	12/03/12 22:07	TO-15/F3 QA230
Bromomethane	U	U	0.5		1	12/03/12 22:07	TO-15/F3 QA230
1,3-Butadiene	U	U	0.5		1	12/03/12 22:07	TO-15/F3 QA230
2-Butanone	0.9	0.3	0.5	J	1	12/03/12 22:07	TO-15/F3 QA230
Carbon disulfide	U	U	0.5		1	12/03/12 22:07	TO-15/F3 QA230
Carbon Tetrachloride	U	U	0.5		1	12/03/12 22:07	TO-15/F3 QA230
Chlorobenzene	U	U	0.5		1	12/03/12 22:07	TO-15/F3 QA230
Chloroethane	U	U	0.5		1	12/03/12 22:07	TO-15/F3 QA230
Chloroform	U	U	0.5		1	12/03/12 22:07	TO-15/F3 QA230
Chloromethane	1.3	0.6	0.5		1	12/03/12 22:07	TO-15/F3 QA230
Dibromochloromethane	U	U	0.5		1	12/03/12 22:07	TO-15/F3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	12/03/12 22:07	TO-15/F3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	12/03/12 22:07	TO-15/F3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	12/03/12 22:07	TO-15/F3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	12/03/12 22:07	TO-15/F3 QA230
Dichlorodifluoromethane	3.2	0.6	0.5		1	12/03/12 22:07	TO-15/F3 QA230
1,1-Dichloroethane	U	U	0.5		1	12/03/12 22:07	TO-15/F3 QA230
1,2-Dichloroethane	U	U	0.5		1	12/03/12 22:07	TO-15/F3 QA230
1,1-Dichloroethene	U	U	0.5		1	12/03/12 22:07	TO-15/F3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	12/03/12 22:07	TO-15/F3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	12/03/12 22:07	TO-15/F3 QA230
1,2-Dichloropropane	U	U	0.5		1	12/03/12 22:07	TO-15/F3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	12/03/12 22:07	TO-15/F3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	12/03/12 22:07	TO-15/F3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	12/03/12 22:07	TO-15/F3 QA230
Ethanol	3.6	1.9	0.5		1	12/03/12 22:07	TO-15/F3 QA230
Ethylbenzene	U	U	0.5		1	12/03/12 22:07	TO-15/F3 QA230
Freon 113	U	U	0.5		1	12/03/12 22:07	TO-15/F3 QA230
Hexachlorobutadiene	U	U	0.5		1	12/03/12 22:07	TO-15/F3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	12/03/12 22:07	TO-15/F3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	12/03/12 22:07	TO-15/F3 QA230
Methylene Chloride	0.6	0.2	0.5	J	1	12/03/12 22:07	TO-15/F3 QA230
Naphthalene	U	U	0.5		1	12/03/12 22:07	TO-15/F3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-111712	Lab ID: 1211015-14
Sample Matrix: Air	Date Collected: 11/07/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	12/03/12 22:07	TO-15/R3 QA230
Styrene	U	U	0.5		1	12/03/12 22:07	TO-15/R3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	12/03/12 22:07	TO-15/R3 QA230
Tetrachloroethene	U	U	0.5		1	12/03/12 22:07	TO-15/R3 QA230
Toluene	1.4	0.4	0.5	J	1	12/03/12 22:07	TO-15/R3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	12/03/12 22:07	TO-15/R3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	12/03/12 22:07	TO-15/R3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	12/03/12 22:07	TO-15/R3 QA230
Trichloroethene	U	U	0.5		1	12/03/12 22:07	TO-15/R3 QA230
Trichlorofluoromethane	1.5	0.3	0.5	J	1	12/03/12 22:07	TO-15/R3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	12/03/12 22:07	TO-15/R3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	12/03/12 22:07	TO-15/R3 QA230
Vinyl chloride	U	U	0.5		1	12/03/12 22:07	TO-15/R3 QA230
m,p-Xylene	U	U	1.0		1	12/03/12 22:07	TO-15/R3 QA230
o-Xylene	U	U	0.5		1	12/03/12 22:07	TO-15/R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.61		96%	80-120	12/03/12	12/03/12 22:07	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5390



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-111912-1	Lab ID: 1211017-01
Sample Matrix: Air	Date Collected: 11/19/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualities	Dilution	Analysed	Method/SCEN
Benzene	2.1	0.6	0.5		1	12/04/12 14:05	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	12/04/12 14:05	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	12/04/12 14:05	TO-15/RS QA230
Bromoform	U	U	0.5		1	12/04/12 14:05	TO-15/RS QA230
Bromoethane	U	U	0.5		1	12/04/12 14:05	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	12/04/12 14:05	TO-15/RS QA230
2-Butanone	1.3	0.4	0.5	J	1	12/04/12 14:05	TO-15/RS QA230
Carbon disulfide	U	U	0.5		1	12/04/12 14:05	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	12/04/12 14:05	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	12/04/12 14:05	TO-15/RS QA230
Chloroethane	U	U	0.5		1	12/04/12 14:05	TO-15/RS QA230
Chloroform	U	U	0.5		1	12/04/12 14:05	TO-15/RS QA230
Chloroethane	U	U	0.5		1	12/04/12 14:05	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	12/04/12 14:05	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	12/04/12 14:05	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	12/04/12 14:05	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	12/04/12 14:05	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	12/04/12 14:05	TO-15/RS QA230
Dichlorodifluoromethane	U	U	0.5		1	12/04/12 14:05	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	12/04/12 14:05	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	12/04/12 14:05	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	12/04/12 14:05	TO-15/RS QA230
cis-1,2-Dichloroethane	U	U	0.5		1	12/04/12 14:05	TO-15/RS QA230
trans-1,2-Dichloroethane	U	U	0.5		1	12/04/12 14:05	TO-15/RS QA230
1,2-Dichloropropane	U	U	0.5		1	12/04/12 14:05	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	12/04/12 14:05	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	12/04/12 14:05	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	12/04/12 14:05	TO-15/RS QA230
Ethanol	8.6	4.5	0.5		1	12/04/12 14:05	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	12/04/12 14:05	TO-15/RS QA230
Freon 113	U	U	0.5		1	12/04/12 14:05	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	12/04/12 14:05	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	12/04/12 14:05	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	12/04/12 14:05	TO-15/RS QA230
Methylene Chloride	0.8	0.2	0.5	J	1	12/04/12 14:05	TO-15/RS QA230
Naphthalene	1.1	0.2	0.5	J	1	12/04/12 14:05	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-111912-1	Lab ID: 1211017-01
Sample Matrix: Air	Date Collected: 11/19/2012

Volatile Organic Compounds
 Targets (Continued)

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	12/04/12 14:05	TO-15/ES QA230
Styrene	U	U	0.5		1	12/04/12 14:05	TO-15/ES QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	12/04/12 14:05	TO-15/ES QA230
Tetrachloroethene	U	U	0.5		1	12/04/12 14:05	TO-15/ES QA230
Toluene	2.8	0.7	0.5		1	12/04/12 14:05	TO-15/ES QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	12/04/12 14:05	TO-15/ES QA230
1,1,1-Trichloroethane	U	U	0.5		1	12/04/12 14:05	TO-15/ES QA230
1,1,2-Trichloroethane	U	U	0.5		1	12/04/12 14:05	TO-15/ES QA230
Trichloroethene	U	U	0.5		1	12/04/12 14:05	TO-15/ES QA230
Trichlorofluoromethane	1.6	0.3	0.5	J	1	12/04/12 14:05	TO-15/ES QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	12/04/12 14:05	TO-15/ES QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	12/04/12 14:05	TO-15/ES QA230
Vinyl chloride	U	U	0.5		1	12/04/12 14:05	TO-15/ES QA230
m,p-Xylene	1.4	0.3	1.0	J	1	12/04/12 14:05	TO-15/ES QA230
o-Xylene	U	U	0.5		1	12/04/12 14:05	TO-15/ES QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Accuracy Limit	Prepared	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.63		96%	80-120	12/04/12	12/04/12 14:05	TO-15/ES QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI)Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-111912-2	Lab ID: 1211017-02
Sample Matrix: Air	Date Collected: 11/19/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifiers	Dilution	Analysis	Method/SCM#
Benzene	1.8	0.6	0.5		1	12/07/12 13:50	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	12/07/12 13:50	TO-15/RS QA230
Bromodichloroethane	U	U	0.5		1	12/07/12 13:50	TO-15/RS QA230
Bromoform	U	U	0.5		1	12/07/12 13:50	TO-15/RS QA230
Bromomethane	U	U	0.5		1	12/07/12 13:50	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	12/07/12 13:50	TO-15/RS QA230
2-Butanone	1.2	0.4	0.5	J	1	12/07/12 13:50	TO-15/RS QA230
Carbon disulfide	U	U	0.5		1	12/07/12 13:50	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	12/07/12 13:50	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	12/07/12 13:50	TO-15/RS QA230
Chloroethane	U	U	0.5		1	12/07/12 13:50	TO-15/RS QA230
Chloroform	U	U	0.5		1	12/07/12 13:50	TO-15/RS QA230
Chloromethane	1.3	0.6	0.5		1	12/07/12 13:50	TO-15/RS QA230
Dibromochloroethane	U	U	0.5		1	12/07/12 13:50	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	12/07/12 13:50	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	12/07/12 13:50	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	12/07/12 13:50	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	12/07/12 13:50	TO-15/RS QA230
Dichlorodifluoromethane	2.2	0.4	0.5	J	1	12/07/12 13:50	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	12/07/12 13:50	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	12/07/12 13:50	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	12/07/12 13:50	TO-15/RS QA230
cis-1,2-Dichloroethane	U	U	0.5		1	12/07/12 13:50	TO-15/RS QA230
trans-1,2-Dichloroethane	U	U	0.5		1	12/07/12 13:50	TO-15/RS QA230
1,2-Dichloropropene	U	U	0.5		1	12/07/12 13:50	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	12/07/12 13:50	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	12/07/12 13:50	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	12/07/12 13:50	TO-15/RS QA230
Ethanol	7.7	4.1	0.5		1	12/07/12 13:50	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	12/07/12 13:50	TO-15/RS QA230
Freon 113	U	U	0.5		1	12/07/12 13:50	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	12/07/12 13:50	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	12/07/12 13:50	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	12/07/12 13:50	TO-15/RS QA230
Methylene Chloride	0.8	0.2	0.5	J	1	12/07/12 13:50	TO-15/RS QA230
Naphthalene	1.1	0.2	0.5	J	1	12/07/12 13:50	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-111912-2	Lab ID: 1211017-02
Sample Matrix: Air	Date Collected: 11/19/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	12/07/12 13:50	TO-15/ES QA230
Styrene	U	U	0.5		1	12/07/12 13:50	TO-15/ES QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	12/07/12 13:50	TO-15/ES QA230
Tetrachloroethene	U	U	0.5		1	12/07/12 13:50	TO-15/ES QA230
Toluene	2.3	0.6	0.5		1	12/07/12 13:50	TO-15/ES QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	12/07/12 13:50	TO-15/ES QA230
1,1,1-Trichloroethane	U	U	0.5		1	12/07/12 13:50	TO-15/ES QA230
1,1,2-Trichloroethane	U	U	0.5		1	12/07/12 13:50	TO-15/ES QA230
Trichloroethene	U	U	0.5		1	12/07/12 13:50	TO-15/ES QA230
Trichlorofluoromethane	1.4	0.2	0.5	J	1	12/07/12 13:50	TO-15/ES QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	12/07/12 13:50	TO-15/ES QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	12/07/12 13:50	TO-15/ES QA230
Vinyl chloride	U	U	0.5		1	12/07/12 13:50	TO-15/ES QA230
m,p-Xylene	1.3	0.3	1.0	J	1	12/07/12 13:50	TO-15/ES QA230
o-Xylene	U	U	0.5		1	12/07/12 13:50	TO-15/ES QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Accuracy Limit	Expanded	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.58		96%	80-120	12/04/12	12/07/12 13:50	TO-15/ES QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-111912-3	Lab ID: 1211017-03
Sample Matrix: Air	Date Collected: 11/19/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/SCM
Benzene	1.4	0.4	0.5	J	1	1204/12 1508	TO-15/R3 QA230
Benzyl chloride	U	U	0.5		1	1204/12 1508	TO-15/R3 QA230
Bromodichloromethane	U	U	0.5		1	1204/12 1508	TO-15/R3 QA230
Bromofom	U	U	0.5		1	1204/12 1508	TO-15/R3 QA230
Bromomethane	U	U	0.5		1	1204/12 1508	TO-15/R3 QA230
1,3-Butadiene	U	U	0.5		1	1204/12 1508	TO-15/R3 QA230
2-Butanone	0.8	0.3	0.5	J	1	1204/12 1508	TO-15/R3 QA230
Carbon disulfide	U	U	0.5		1	1204/12 1508	TO-15/R3 QA230
Carbon Tetrachloride	U	U	0.5		1	1204/12 1508	TO-15/R3 QA230
Chlorobenzene	U	U	0.5		1	1204/12 1508	TO-15/R3 QA230
Chloroethane	U	U	0.5		1	1204/12 1508	TO-15/R3 QA230
Chloroform	U	U	0.5		1	1204/12 1508	TO-15/R3 QA230
Chloromethane	1.2	0.6	0.5		1	1204/12 1508	TO-15/R3 QA230
Dibromochloromethane	U	U	0.5		1	1204/12 1508	TO-15/R3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	1204/12 1508	TO-15/R3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	1204/12 1508	TO-15/R3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	1204/12 1508	TO-15/R3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	1204/12 1508	TO-15/R3 QA230
Dichlorodifluoromethane	3.2	0.6	0.5		1	1204/12 1508	TO-15/R3 QA230
1,1-Dichloroethane	U	U	0.5		1	1204/12 1508	TO-15/R3 QA230
1,2-Dichloroethane	U	U	0.5		1	1204/12 1508	TO-15/R3 QA230
1,1-Dichloroethene	U	U	0.5		1	1204/12 1508	TO-15/R3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	1204/12 1508	TO-15/R3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	1204/12 1508	TO-15/R3 QA230
1,2-Dichloropropane	U	U	0.5		1	1204/12 1508	TO-15/R3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	1204/12 1508	TO-15/R3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	1204/12 1508	TO-15/R3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	1204/12 1508	TO-15/R3 QA230
Ethanol	2.8	1.5	0.5		1	1204/12 1508	TO-15/R3 QA230
Ethylbenzene	U	U	0.5		1	1204/12 1508	TO-15/R3 QA230
Freon 113	U	U	0.5		1	1204/12 1508	TO-15/R3 QA230
Hexachlorobutadiene	U	U	0.5		1	1204/12 1508	TO-15/R3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	1204/12 1508	TO-15/R3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	1204/12 1508	TO-15/R3 QA230
Methylene Chloride	0.7	0.2	0.5	J	1	1204/12 1508	TO-15/R3 QA230
Naphthalene	1.1	0.2	0.5	J	1	1204/12 1508	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-111912-3	Lab ID: 1211017-03
Sample Matrix: Air	Date Collected: 11/19/2012

**Volatile Organic Compounds
Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF
Propylene	U	U	0.5		1	12/04/12 15:08	TO-15/RS QA230
Styrene	U	U	0.5		1	12/04/12 15:08	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	12/04/12 15:08	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	12/04/12 15:08	TO-15/RS QA230
Toluene	1.5	0.4	0.5	J	1	12/04/12 15:08	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	12/04/12 15:08	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	12/04/12 15:08	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	12/04/12 15:08	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	12/04/12 15:08	TO-15/RS QA230
Trichlorofluoromethane	1.6	0.3	0.5	J	1	12/04/12 15:08	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	12/04/12 15:08	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	12/04/12 15:08	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	12/04/12 15:08	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	12/04/12 15:08	TO-15/RS QA230
o-Xylene	U	U	0.5		1	12/04/12 15:08	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCDF
<i>Surrogate: Bromofluorobenzene</i>	9.62		96%	80-120	12/04/12	12/04/12 15:08	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5390



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-111912	Lab ID: 1211017-04
Sample Matrix: Air	Date Collected: 11/09/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/QC#
Benzene	2.1	0.6	0.5		1	12/04/12 15:57	TO-15/R3 QA230
Benzyl chloride	U	U	0.5		1	12/04/12 15:57	TO-15/R3 QA230
Bromodichloromethane	U	U	0.5		1	12/04/12 15:57	TO-15/R3 QA230
Bromoforn	U	U	0.5		1	12/04/12 15:57	TO-15/R3 QA230
Bromomethane	U	U	0.5		1	12/04/12 15:57	TO-15/R3 QA230
1,3-Butadiene	U	U	0.5		1	12/04/12 15:57	TO-15/R3 QA230
2-Butanone	1.2	0.4	0.5	J	1	12/04/12 15:57	TO-15/R3 QA230
Carbon disulfide	U	U	0.5		1	12/04/12 15:57	TO-15/R3 QA230
Carbon Tetrachloride	U	U	0.5		1	12/04/12 15:57	TO-15/R3 QA230
Chlorobenzene	U	U	0.5		1	12/04/12 15:57	TO-15/R3 QA230
Chloroethane	U	U	0.5		1	12/04/12 15:57	TO-15/R3 QA230
Chloroform	U	U	0.5		1	12/04/12 15:57	TO-15/R3 QA230
Chloromethane	1.4	0.7	0.5		1	12/04/12 15:57	TO-15/R3 QA230
Dibromochloromethane	U	U	0.5		1	12/04/12 15:57	TO-15/R3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	12/04/12 15:57	TO-15/R3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	12/04/12 15:57	TO-15/R3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	12/04/12 15:57	TO-15/R3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	12/04/12 15:57	TO-15/R3 QA230
Dichlorodifluoromethane	3.0	0.6	0.5		1	12/04/12 15:57	TO-15/R3 QA230
1,1-Dichloroethane	U	U	0.5		1	12/04/12 15:57	TO-15/R3 QA230
1,2-Dichloroethane	U	U	0.5		1	12/04/12 15:57	TO-15/R3 QA230
1,1-Dichloroethene	U	U	0.5		1	12/04/12 15:57	TO-15/R3 QA230
cis-1,2-Dichloroethene	U	U	0.5		1	12/04/12 15:57	TO-15/R3 QA230
trans-1,2-Dichloroethene	U	U	0.5		1	12/04/12 15:57	TO-15/R3 QA230
1,2-Dichloropropene	U	U	0.5		1	12/04/12 15:57	TO-15/R3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	12/04/12 15:57	TO-15/R3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	12/04/12 15:57	TO-15/R3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	12/04/12 15:57	TO-15/R3 QA230
Ethanol	9.0	4.7	0.5		1	12/04/12 15:57	TO-15/R3 QA230
Ethylbenzene	U	U	0.5		1	12/04/12 15:57	TO-15/R3 QA230
Ethylene	U	U	0.5		1	12/04/12 15:57	TO-15/R3 QA230
Hexachlorobutadiene	U	U	0.5		1	12/04/12 15:57	TO-15/R3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	12/04/12 15:57	TO-15/R3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	12/04/12 15:57	TO-15/R3 QA230
Methylene Chloride	0.8	0.2	0.5	J	1	12/04/12 15:57	TO-15/R3 QA230
Naphthalene	1.1	0.2	0.5	J	1	12/04/12 15:57	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5350



Site Name: Washington Co., PA	Project #: NSF615
Station ID: FLO-VOC-111912	Lab ID: 1211017-04
Sample Matrix: Air	Date Collected: 11/19/2012

**Volatile Organic Compounds
Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analyzed	Method/SCDF
Propylene	U	U	0.5		1	12/04/12 15:57	TO-15/R3 Q4230
Styrene	U	U	0.5		1	12/04/12 15:57	TO-15/R3 Q4230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	12/04/12 15:57	TO-15/R3 Q4230
Tetrachloroethene	U	U	0.5		1	12/04/12 15:57	TO-15/R3 Q4230
Toluene	2.6	0.7	0.5		1	12/04/12 15:57	TO-15/R3 Q4230
1,2,4-Trichlorobenzene	U	U	0.5		1	12/04/12 15:57	TO-15/R3 Q4230
1,1,1-Trichloroethane	U	U	0.5		1	12/04/12 15:57	TO-15/R3 Q4230
1,1,2-Trichloroethane	U	U	0.5		1	12/04/12 15:57	TO-15/R3 Q4230
Trichloroethene	U	U	0.5		1	12/04/12 15:57	TO-15/R3 Q4230
Trichlorofluoromethane	1.6	0.3	0.5	J	1	12/04/12 15:57	TO-15/R3 Q4230
1,2,4-Trimethylbenzene	U	U	0.5		1	12/04/12 15:57	TO-15/R3 Q4230
1,3,5-Trimethylbenzene	U	U	0.5		1	12/04/12 15:57	TO-15/R3 Q4230
Vinyl chloride	U	U	0.5		1	12/04/12 15:57	TO-15/R3 Q4230
m,p-Xylene	1.4	0.3	1.0	J	1	12/04/12 15:57	TO-15/R3 Q4230
o-Xylene	U	U	0.5		1	12/04/12 15:57	TO-15/R3 Q4230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analyzed	Method/SCDF
<i>Surrogate: Bromofluorobenzene</i>	9.60		96%	80-120	12/04/12	12/04/12 15:57	TO-15/R3 Q4230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-112512-2	Lab ID: 1211017-06
Sample Matrix: Air	Date Collected: 11/25/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/REF
Benzene	2.0	0.6	0.5		1	12/07/12 14:42	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
Bromoforn	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
Bromomethane	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
2-Butanone	0.7	0.2	0.5	J	1	12/07/12 14:42	TO-15/RS QA230
Carbon disulfide	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
Carbon Tetrachloride	1.1	0.2	0.5	J	1	12/07/12 14:42	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
Chloroethane	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
Chloroform	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
Chloromethane	2.0	1.0	0.5		1	12/07/12 14:42	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
Dichlorodifluoromethane	4.9	1.0	0.5		1	12/07/12 14:42	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
1,2-Dichloropropane	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
Ethanol	6.1	3.2	0.5		1	12/07/12 14:42	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
Freon 113	1.2	0.2	0.5	J	1	12/07/12 14:42	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
Methylene Chloride	0.7	0.2	0.5	J	1	12/07/12 14:42	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-112512-2	Lab ID: 1211017-06
Sample Matrix: Air	Date Collected: 11/25/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDW
Naphthalene	1.1	0.2	0.5	J	1	12/07/12 14:42	TO-15/RS QA230
Propylene	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
Styrene	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
Toluene	2.5	0.6	0.5		1	12/07/12 14:42	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
Trichlorofluoromethane	2.4	0.4	0.5	J	1	12/07/12 14:42	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	12/07/12 14:42	TO-15/RS QA230
o-Xylene	U	U	0.5		1	12/07/12 14:42	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Encovary Limit	Expanded	Analysed	Method/SCDW
Surrogate: Bromofluorobenzene	9.52		95%	80-120	12/04/12	12/07/12 14:42	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA
Station ID: ERIG-VOC-112712-1
Sample Matrix: Air

Project #: NSF615
Lab ID: 1211017-07
Date Collected: 11/27/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysis	Method/SCDF
Benzene	0.9	0.3	0.5	J	1	12/04/12 16:44	TO-15/R3 QA230
Benzyl chloride	U	U	0.5		1	12/04/12 16:44	TO-15/R3 QA230
Bromodichloromethane	U	U	0.5		1	12/04/12 16:44	TO-15/R3 QA230
Bromoforn	U	U	0.5		1	12/04/12 16:44	TO-15/R3 QA230
Bromomethane	U	U	0.5		1	12/04/12 16:44	TO-15/R3 QA230
1,3-Butadiene	U	U	0.5		1	12/04/12 16:44	TO-15/R3 QA230
2-Butanone	U	U	0.5		1	12/04/12 16:44	TO-15/R3 QA230
Carbon disulfide	U	U	0.5		1	12/04/12 16:44	TO-15/R3 QA230
Carbon Tetrachloride	U	U	0.5		1	12/04/12 16:44	TO-15/R3 QA230
Chlorobenzene	U	U	0.5		1	12/04/12 16:44	TO-15/R3 QA230
Chloroethane	U	U	0.5		1	12/04/12 16:44	TO-15/R3 QA230
Chloroform	U	U	0.5		1	12/04/12 16:44	TO-15/R3 QA230
Chloromethane	1.3	0.6	0.5		1	12/04/12 16:44	TO-15/R3 QA230
Dibromochloromethane	U	U	0.5		1	12/04/12 16:44	TO-15/R3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	12/04/12 16:44	TO-15/R3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	12/04/12 16:44	TO-15/R3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	12/04/12 16:44	TO-15/R3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	12/04/12 16:44	TO-15/R3 QA230
Dichlorodifluoromethane	3.1	0.6	0.5		1	12/04/12 16:44	TO-15/R3 QA230
1,1-Dichloroethane	U	U	0.5		1	12/04/12 16:44	TO-15/R3 QA230
1,2-Dichloroethane	U	U	0.5		1	12/04/12 16:44	TO-15/R3 QA230
1,1-Dichloroethene	U	U	0.5		1	12/04/12 16:44	TO-15/R3 QA230
cis-1,2-Dichloroethane	U	U	0.5		1	12/04/12 16:44	TO-15/R3 QA230
trans-1,2-Dichloroethane	U	U	0.5		1	12/04/12 16:44	TO-15/R3 QA230
1,2-Dichloropropane	U	U	0.5		1	12/04/12 16:44	TO-15/R3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	12/04/12 16:44	TO-15/R3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	12/04/12 16:44	TO-15/R3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	12/04/12 16:44	TO-15/R3 QA230
Ethanol	3.2	1.7	0.5	L	1	12/04/12 16:44	TO-15/R3 QA230
Ethylbenzene	U	U	0.5		1	12/04/12 16:44	TO-15/R3 QA230
Freon 113	U	U	0.5		1	12/04/12 16:44	TO-15/R3 QA230
Hexachlorobutadiene	U	U	0.5		1	12/04/12 16:44	TO-15/R3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	12/04/12 16:44	TO-15/R3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	12/04/12 16:44	TO-15/R3 QA230
Methylene Chloride	0.6	0.2	0.5	J	1	12/04/12 16:44	TO-15/R3 QA230
Naphthalene	U	U	0.5		1	12/04/12 16:44	TO-15/R3 QA230

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-112712-1	Lab ID: 1211017-07
Sample Matrix: Air	Date Collected: 11/27/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	12/04/12 16:44	TO-15/ES QA230
Styrene	U	U	0.5		1	12/04/12 16:44	TO-15/ES QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	12/04/12 16:44	TO-15/ES QA230
Tetrachloroethane	U	U	0.5		1	12/04/12 16:44	TO-15/ES QA230
Toluene	1.0	0.3	0.5	J	1	12/04/12 16:44	TO-15/ES QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	12/04/12 16:44	TO-15/ES QA230
1,1,1-Trichloroethane	U	U	0.5		1	12/04/12 16:44	TO-15/ES QA230
1,1,2-Trichloroethane	U	U	0.5		1	12/04/12 16:44	TO-15/ES QA230
Trichloroethane	U	U	0.5		1	12/04/12 16:44	TO-15/ES QA230
Trichlorofluoromethane	1.6	0.3	0.5	J	1	12/04/12 16:44	TO-15/ES QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	12/04/12 16:44	TO-15/ES QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	12/04/12 16:44	TO-15/ES QA230
Vinyl chloride	U	U	0.5		1	12/04/12 16:44	TO-15/ES QA230
m,p-Xylene	U	U	1.0		1	12/04/12 16:44	TO-15/ES QA230
o-Xylene	U	U	0.5		1	12/04/12 16:44	TO-15/ES QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.56		96%	80-120	12/04/12	12/04/12 16:44	TO-15/ES QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5350



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-112712-2	Lab ID: 1211017-08
Sample Matrix: Air	Date Collected: 11/27/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifies	Dilution	Analysed	Method/SCM#
Benzene	1.0	0.3	0.5	J	1	12/07/12 15:34	TO-15/E3 QA230
Benzyl chloride	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
Bromodichloromethane	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
Bromoform	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
Bromoethane	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
1,3-Butadiene	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
2-Butanone	0.6	0.2	0.5	J	1	12/07/12 15:34	TO-15/E3 QA230
Carbon disulfide	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
Carbon Tetrachloride	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
Chlorobenzene	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
Chloroethane	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
Chloroform	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
Chloroethane	1.4	0.7	0.5		1	12/07/12 15:34	TO-15/E3 QA230
Dibromochloromethane	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
Dichlorodifluoromethane	3.4	0.7	0.5		1	12/07/12 15:34	TO-15/E3 QA230
1,1-Dichloroethane	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
1,2-Dichloroethane	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
1,1-Dichloroethene	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
cis-1,2-Dichloroethane	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
trans-1,2-Dichloroethane	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
1,2-Dichloropropane	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
Ethanol	3.4	1.8	0.5		1	12/07/12 15:34	TO-15/E3 QA230
Ethylbenzene	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
Freon 113	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
Hexachlorobutadiene	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
Methylene Chloride	0.6	0.2	0.5	J	1	12/07/12 15:34	TO-15/E3 QA230
Naphthalene	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-112712-2	Lab ID: 1211017-08
Sample Matrix: Air	Date Collected: 11/27/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM
Propylene	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
Styrene	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
Tetrachloroethene	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
Toluene	1.1	0.3	0.5	J	1	12/07/12 15:34	TO-15/E3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
Trichloroethene	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
Trichlorofluoromethane	1.7	0.3	0.5	J	1	12/07/12 15:34	TO-15/E3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
Vinyl chloride	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230
m,p-Xylene	U	U	1.0		1	12/07/12 15:34	TO-15/E3 QA230
o-Xylene	U	U	0.5		1	12/07/12 15:34	TO-15/E3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Accuracy Limit	Expanded	Analysed	Method/SCM
<i>Surrogate: Bromofluorobenzene</i>	9.40		94%	80-120	12/04/12	12/07/12 15:34	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-112712-3	Lab ID: 1211017-09
Sample Matrix: Air	Date Collected: 11/27/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Benzene	0.9	0.3	0.5	J	1	12/04/12 17:33	TO-15/E3 QA230
Benzyl chloride	U	U	0.5		1	12/04/12 17:33	TO-15/E3 QA230
Bromodichloromethane	U	U	0.5		1	12/04/12 17:33	TO-15/E3 QA230
Bromoform	U	U	0.5		1	12/04/12 17:33	TO-15/E3 QA230
Bromoethane	U	U	0.5		1	12/04/12 17:33	TO-15/E3 QA230
1,3-Butadiene	U	U	0.5		1	12/04/12 17:33	TO-15/E3 QA230
2-Butanone	U	U	0.5		1	12/04/12 17:33	TO-15/E3 QA230
Carbon disulfide	0.7	0.2	0.5	J	1	12/04/12 17:33	TO-15/E3 QA230
Carbon Tetrachloride	U	U	0.5		1	12/04/12 17:33	TO-15/E3 QA230
Chlorobenzene	U	U	0.5		1	12/04/12 17:33	TO-15/E3 QA230
Chloroethane	U	U	0.5		1	12/04/12 17:33	TO-15/E3 QA230
Chloroform	U	U	0.5		1	12/04/12 17:33	TO-15/E3 QA230
Chloromethane	1.2	0.6	0.5		1	12/04/12 17:33	TO-15/E3 QA230
Dibromochloromethane	U	U	0.5		1	12/04/12 17:33	TO-15/E3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	12/04/12 17:33	TO-15/E3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	12/04/12 17:33	TO-15/E3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	12/04/12 17:33	TO-15/E3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	12/04/12 17:33	TO-15/E3 QA230
Dichlorodifluoromethane	3.0	0.6	0.5		1	12/04/12 17:33	TO-15/E3 QA230
1,1-Dichloroethane	U	U	0.5		1	12/04/12 17:33	TO-15/E3 QA230
1,2-Dichloroethane	U	U	0.5		1	12/04/12 17:33	TO-15/E3 QA230
1,1-Dichloroethene	U	U	0.5		1	12/04/12 17:33	TO-15/E3 QA230
cis-1,2-Dichloroethane	U	U	0.5		1	12/04/12 17:33	TO-15/E3 QA230
trans-1,2-Dichloroethane	U	U	0.5		1	12/04/12 17:33	TO-15/E3 QA230
1,2-Dichloropropane	U	U	0.5		1	12/04/12 17:33	TO-15/E3 QA230
cis-1,3-Dichloropropane	U	U	0.5		1	12/04/12 17:33	TO-15/E3 QA230
trans-1,3-Dichloropropane	U	U	0.5		1	12/04/12 17:33	TO-15/E3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	12/04/12 17:33	TO-15/E3 QA230
Ethanol	2.6	1.4	0.5		1	12/04/12 17:33	TO-15/E3 QA230
Ethylbenzene	U	U	0.5		1	12/04/12 17:33	TO-15/E3 QA230
Freon 113	U	U	0.5		1	12/04/12 17:33	TO-15/E3 QA230
Hexachlorobutadiene	U	U	0.5		1	12/04/12 17:33	TO-15/E3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	12/04/12 17:33	TO-15/E3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	12/04/12 17:33	TO-15/E3 QA230
Methylene Chloride	0.6	0.2	0.5	J	1	12/04/12 17:33	TO-15/E3 QA230
Naphthalene	U	U	0.5		1	12/04/12 17:33	TO-15/E3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-112712-3	Lab ID: 1211017-09
Sample Matrix: Air	Date Collected: 11/27/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Propylene	U	U	0.5		1	12/04/12 17:33	TO-15/RS QA230
Styrene	U	U	0.5		1	12/04/12 17:33	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	12/04/12 17:33	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	12/04/12 17:33	TO-15/RS QA230
Toluene	1.4	0.4	0.5	J	1	12/04/12 17:33	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	12/04/12 17:33	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	12/04/12 17:33	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	12/04/12 17:33	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	12/04/12 17:33	TO-15/RS QA230
Trichlorofluoromethane	1.5	0.3	0.5	J	1	12/04/12 17:33	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	12/04/12 17:33	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	12/04/12 17:33	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	12/04/12 17:33	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	12/04/12 17:33	TO-15/RS QA230
o-Xylene	U	U	0.5		1	12/04/12 17:33	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCM#
<i>Surrogate: Bromofluorobenzene</i>	9.38		96%	80-120	12/04/12	12/04/12 17:33	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-112512	Lab ID: 1211017-10
Sample Matrix: Air	Date Collected: 11/25/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result µg/m3	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Benzene	1.1	0.4	0.5	J	1	12/04/12 18:20	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
Bromofom	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
Bromomethane	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
2-Butanone	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
Carbon disulfide	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
Chloroethane	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
Chloroform	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
Chloromethane	1.2	0.6	0.5		1	12/04/12 18:20	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
Dichlorodifluoromethane	3.0	0.6	0.5		1	12/04/12 18:20	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
1,2-Dichloropropane	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
Ethanol	3.7	1.9	0.5		1	12/04/12 18:20	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
Heon 113	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
Methylene Chloride	0.6	0.2	0.5	J	1	12/04/12 18:20	TO-15/RS QA230
Naphthalene	1.1	0.2	0.5	J	1	12/04/12 18:20	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-112512	Lab ID: 1211017-10
Sample Matrix: Air	Date Collected: 11/25/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCEN
Propylene	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
Styrene	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
Tetrachloroethane	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
Toluene	1.5	0.4	0.5	J	1	12/04/12 18:20	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
Trichloroethane	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
Trichlorofluoromethane	1.5	0.3	0.5	J	1	12/04/12 18:20	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	12/04/12 18:20	TO-15/RS QA230
o-Xylene	U	U	0.5		1	12/04/12 18:20	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Recovery Limit	Expanded	Analysed	Method/SCEN
<i>Surrogate: Bromofluorobenzene</i>	9.51		95%	80-120	12/04/12	12/04/12 18:20	TO-15/RS QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-112712	Lab ID: 1211017-11
Sample Matrix: Air	Date Collected: 11/27/2012

**Volatile Organic Compounds
 Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCM#
Benzene	0.6	0.2	0.5	J	1	12/04/12 19:08	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	12/04/12 19:08	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	12/04/12 19:08	TO-15/RS QA230
Bromofom	U	U	0.5		1	12/04/12 19:08	TO-15/RS QA230
Bromomethane	U	U	0.5		1	12/04/12 19:08	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	12/04/12 19:08	TO-15/RS QA230
2-Butanone	U	U	0.5		1	12/04/12 19:08	TO-15/RS QA230
Carbon disulfide	U	U	0.5		1	12/04/12 19:08	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	12/04/12 19:08	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	12/04/12 19:08	TO-15/RS QA230
Chloroethane	U	U	0.5		1	12/04/12 19:08	TO-15/RS QA230
Chloroform	U	U	0.5		1	12/04/12 19:08	TO-15/RS QA230
Chloromethane	1.3	0.6	0.5		1	12/04/12 19:08	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	12/04/12 19:08	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	12/04/12 19:08	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	12/04/12 19:08	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	12/04/12 19:08	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	12/04/12 19:08	TO-15/RS QA230
Dichlorodifluoromethane	3.1	0.6	0.5		1	12/04/12 19:08	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	12/04/12 19:08	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	12/04/12 19:08	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	12/04/12 19:08	TO-15/RS QA230
cis-1,2-Dichloroethane	U	U	0.5		1	12/04/12 19:08	TO-15/RS QA230
trans-1,2-Dichloroethane	U	U	0.5		1	12/04/12 19:08	TO-15/RS QA230
1,2-Dichloropropene	U	U	0.5		1	12/04/12 19:08	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	12/04/12 19:08	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	12/04/12 19:08	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	12/04/12 19:08	TO-15/RS QA230
Ethanol	U	U	0.5		1	12/04/12 19:08	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	12/04/12 19:08	TO-15/RS QA230
Heon 113	U	U	0.5		1	12/04/12 19:08	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	12/04/12 19:08	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	12/04/12 19:08	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	12/04/12 19:08	TO-15/RS QA230
Methylene Chloride	0.6	0.2	0.5	J	1	12/04/12 19:08	TO-15/RS QA230
Naphthalene	U	U	0.5		1	12/04/12 19:08	TO-15/RS QA230
Propylene	U	U	0.5		1	12/04/12 19:08	TO-15/RS QA230

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: FLO-VOC-112712	Lab ID: 1211017-11
Sample Matrix: Air	Date Collected: 11/27/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDW
Styrene	U	U	0.5		1	12/04/12 19:08	TO-15/E3 Q4230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	12/04/12 19:08	TO-15/E3 Q4230
Tetrachloroethene	U	U	0.5		1	12/04/12 19:08	TO-15/E3 Q4230
Toluene	1.2	0.3	0.5	J	1	12/04/12 19:08	TO-15/E3 Q4230
1,2,4-Trichlorobenzene	U	U	0.5		1	12/04/12 19:08	TO-15/E3 Q4230
1,1,1-Trichloroethane	U	U	0.5		1	12/04/12 19:08	TO-15/E3 Q4230
1,1,2-Trichloroethane	U	U	0.5		1	12/04/12 19:08	TO-15/E3 Q4230
Trichloroethene	U	U	0.5		1	12/04/12 19:08	TO-15/E3 Q4230
Trichlorofluoromethane	1.5	0.3	0.5	J	1	12/04/12 19:08	TO-15/E3 Q4230
1,2,4-Trimethylbenzene	U	U	0.5		1	12/04/12 19:08	TO-15/E3 Q4230
1,3,5-Trimethylbenzene	U	U	0.5		1	12/04/12 19:08	TO-15/E3 Q4230
Vinyl chloride	U	U	0.5		1	12/04/12 19:08	TO-15/E3 Q4230
m,p-Xylene	U	U	1.0		1	12/04/12 19:08	TO-15/E3 Q4230
o-Xylene	U	U	0.5		1	12/04/12 19:08	TO-15/E3 Q4230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Encovary Limits	Expanded	Analysed	Method/SCDW
<i>Surrogate: Bromofluorobenzene</i>	9.54		95%	80-120	12/04/12	12/04/12 19:08	TO-15/E3 Q4230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-112512-3	Lab ID: 1211017-12
Sample Matrix: Air	Date Collected: 11/25/2012

**Volatile Organic Compounds
Targets**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDF
Benzene	1.4	0.4	0.5	J	1	12/07/12 16:26	TO-15/RS QA230
Benzyl chloride	U	U	0.5		1	12/07/12 16:26	TO-15/RS QA230
Bromodichloromethane	U	U	0.5		1	12/07/12 16:26	TO-15/RS QA230
Bromoform	U	U	0.5		1	12/07/12 16:26	TO-15/RS QA230
Bromoethane	U	U	0.5		1	12/07/12 16:26	TO-15/RS QA230
1,3-Butadiene	U	U	0.5		1	12/07/12 16:26	TO-15/RS QA230
2-Butanone	0.9	0.3	0.5	J	1	12/07/12 16:26	TO-15/RS QA230
Carbon disulfide	U	U	0.5		1	12/07/12 16:26	TO-15/RS QA230
Carbon Tetrachloride	U	U	0.5		1	12/07/12 16:26	TO-15/RS QA230
Chlorobenzene	U	U	0.5		1	12/07/12 16:26	TO-15/RS QA230
Chloroethane	U	U	0.5		1	12/07/12 16:26	TO-15/RS QA230
Chloroform	U	U	0.5		1	12/07/12 16:26	TO-15/RS QA230
Chloromethane	1.3	0.6	0.5		1	12/07/12 16:26	TO-15/RS QA230
Dibromochloromethane	U	U	0.5		1	12/07/12 16:26	TO-15/RS QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	12/07/12 16:26	TO-15/RS QA230
1,2-Dichlorobenzene	U	U	0.5		1	12/07/12 16:26	TO-15/RS QA230
1,3-Dichlorobenzene	U	U	0.5		1	12/07/12 16:26	TO-15/RS QA230
1,4-Dichlorobenzene	U	U	0.5		1	12/07/12 16:26	TO-15/RS QA230
Dichlorodifluoromethane	3.3	0.7	0.5		1	12/07/12 16:26	TO-15/RS QA230
1,1-Dichloroethane	U	U	0.5		1	12/07/12 16:26	TO-15/RS QA230
1,2-Dichloroethane	U	U	0.5		1	12/07/12 16:26	TO-15/RS QA230
1,1-Dichloroethene	U	U	0.5		1	12/07/12 16:26	TO-15/RS QA230
cis-1,2-Dichloroethene	U	U	0.5		1	12/07/12 16:26	TO-15/RS QA230
trans-1,2-Dichloroethene	U	U	0.5		1	12/07/12 16:26	TO-15/RS QA230
1,2-Dichloropropene	U	U	0.5		1	12/07/12 16:26	TO-15/RS QA230
cis-1,3-Dichloropropene	U	U	0.5		1	12/07/12 16:26	TO-15/RS QA230
trans-1,3-Dichloropropene	U	U	0.5		1	12/07/12 16:26	TO-15/RS QA230
Dichlorotetrafluoroethane	U	U	0.5		1	12/07/12 16:26	TO-15/RS QA230
Ethanol	3.0	1.6	0.5		1	12/07/12 16:26	TO-15/RS QA230
Ethylbenzene	U	U	0.5		1	12/07/12 16:26	TO-15/RS QA230
Freon 113	U	U	0.5		1	12/07/12 16:26	TO-15/RS QA230
Hexachlorobutadiene	U	U	0.5		1	12/07/12 16:26	TO-15/RS QA230
Methyl tert-Butyl Ether	U	U	0.5		1	12/07/12 16:26	TO-15/RS QA230
4-Methyl-2-pentanone	U	U	0.5		1	12/07/12 16:26	TO-15/RS QA230
Methylene Chloride	0.7	0.2	0.5	J	1	12/07/12 16:26	TO-15/RS QA230
Naphthalene	U	U	0.5		1	12/07/12 16:26	TO-15/RS QA230

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-112512-3	Lab ID: 1211017-12
Sample Matrix: Air	Date Collected: 11/25/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SOE#
Propylene	U	U	0.5		1	12/07/12 16:26	TO-15/R3 QA230
Styrene	U	U	0.5		1	12/07/12 16:26	TO-15/R3 QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	12/07/12 16:26	TO-15/R3 QA230
Tetrachloroethene	U	U	0.5		1	12/07/12 16:26	TO-15/R3 QA230
Toluene	1.4	0.4	0.5	J	1	12/07/12 16:26	TO-15/R3 QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	12/07/12 16:26	TO-15/R3 QA230
1,1,1-Trichloroethane	U	U	0.5		1	12/07/12 16:26	TO-15/R3 QA230
1,1,2-Trichloroethane	U	U	0.5		1	12/07/12 16:26	TO-15/R3 QA230
Trichloroethene	U	U	0.5		1	12/07/12 16:26	TO-15/R3 QA230
Trichlorofluoromethane	1.7	0.3	0.5	J	1	12/07/12 16:26	TO-15/R3 QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	12/07/12 16:26	TO-15/R3 QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	12/07/12 16:26	TO-15/R3 QA230
Vinyl chloride	U	U	0.5		1	12/07/12 16:26	TO-15/R3 QA230
m,p-Xylene	U	U	1.0		1	12/07/12 16:26	TO-15/R3 QA230
o-Xylene	U	U	0.5		1	12/07/12 16:26	TO-15/R3 QA230

Surrogates

Analyte	Result ppbv	Flag Qualifier	%Recovery	%Encumbrance Limit	Expanded	Analysed	Method/SOE#
<i>Surrogate: Bromofluorobenzene</i>	9.41		94%	80-120	12/04/12	12/07/12 16:26	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5350



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: BRIG-VOC-112812-1	Lab ID: 1211017-13
Sample Matrix: Air	Date Collected: 11/09/2012

Volatile Organic Compounds
Targets

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifier	Dilution	Analysed	Method/SCDH
Benzene	0.8	0.2	0.5	J	1	12/04/12 19:56	TO-15/R3 QA230
Benzyl chloride	U	U	0.5		1	12/04/12 19:56	TO-15/R3 QA230
Bromodichloromethane	U	U	0.5		1	12/04/12 19:56	TO-15/R3 QA230
Bromoforn	U	U	0.5		1	12/04/12 19:56	TO-15/R3 QA230
Bromomethane	U	U	0.5		1	12/04/12 19:56	TO-15/R3 QA230
1,3-Butadiene	U	U	0.5		1	12/04/12 19:56	TO-15/R3 QA230
2-Butanone	U	U	0.5		1	12/04/12 19:56	TO-15/R3 QA230
Carbon disulfide	U	U	0.5		1	12/04/12 19:56	TO-15/R3 QA230
Carbon Tetrachloride	U	U	0.5		1	12/04/12 19:56	TO-15/R3 QA230
Chlorobenzene	U	U	0.5		1	12/04/12 19:56	TO-15/R3 QA230
Chloroethane	U	U	0.5		1	12/04/12 19:56	TO-15/R3 QA230
Chloroform	U	U	0.5		1	12/04/12 19:56	TO-15/R3 QA230
Chloromethane	1.4	0.7	0.5		1	12/04/12 19:56	TO-15/R3 QA230
Dibromochloromethane	U	U	0.5		1	12/04/12 19:56	TO-15/R3 QA230
1,2-Dibromoethane (EDB)	U	U	0.5		1	12/04/12 19:56	TO-15/R3 QA230
1,2-Dichlorobenzene	U	U	0.5		1	12/04/12 19:56	TO-15/R3 QA230
1,3-Dichlorobenzene	U	U	0.5		1	12/04/12 19:56	TO-15/R3 QA230
1,4-Dichlorobenzene	U	U	0.5		1	12/04/12 19:56	TO-15/R3 QA230
Dichlorodifluoromethane	3.2	0.6	0.5		1	12/04/12 19:56	TO-15/R3 QA230
1,1-Dichloroethane	U	U	0.5		1	12/04/12 19:56	TO-15/R3 QA230
1,2-Dichloroethane	U	U	0.5		1	12/04/12 19:56	TO-15/R3 QA230
1,1-Dichloroethene	U	U	0.5		1	12/04/12 19:56	TO-15/R3 QA230
cis-1,2-Dichloroethane	U	U	0.5		1	12/04/12 19:56	TO-15/R3 QA230
trans-1,2-Dichloroethane	U	U	0.5		1	12/04/12 19:56	TO-15/R3 QA230
1,2-Dichloropropane	U	U	0.5		1	12/04/12 19:56	TO-15/R3 QA230
cis-1,3-Dichloropropene	U	U	0.5		1	12/04/12 19:56	TO-15/R3 QA230
trans-1,3-Dichloropropene	U	U	0.5		1	12/04/12 19:56	TO-15/R3 QA230
Dichlorotetrafluoroethane	U	U	0.5		1	12/04/12 19:56	TO-15/R3 QA230
Ethanol	5.4	2.8	0.5		1	12/04/12 19:56	TO-15/R3 QA230
Ethylbenzene	U	U	0.5		1	12/04/12 19:56	TO-15/R3 QA230
Freon 113	U	U	0.5		1	12/04/12 19:56	TO-15/R3 QA230
Hexachlorobutadiene	U	U	0.5		1	12/04/12 19:56	TO-15/R3 QA230
Methyl tert-Butyl Ether	U	U	0.5		1	12/04/12 19:56	TO-15/R3 QA230
4-Methyl-2-pentanone	U	U	0.5		1	12/04/12 19:56	TO-15/R3 QA230
Methylene Chloride	0.6	0.2	0.5	J	1	12/04/12 19:56	TO-15/R3 QA230
Naphthalene	U	U	0.5		1	12/04/12 19:56	TO-15/R3 QA230

Natural Gas Ambient Air Monitoring Initiative (NGAAMI) Appendix C: Data Laboratory Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region 3 Environmental Science Center
 Office of Analytical Services and Quality Assurance
 701 Mapes Road
 Fort Meade, Maryland 20755-5330



Site Name: Washington Co., PA	Project #: NSF 615
Station ID: ERIG-VOC-112812-1	Lab ID: 1211017-13
Sample Matrix: Air	Date Collected: 11/29/2012

**Volatile Organic Compounds
 Targets (Continued)**

Analyte	Result µg/m ³	Result ppbv	Quantitation Limit ppbv	Flag Qualifies	Dilution	Analysed	Method/REF
Propylene	U	U	0.5		1	12/04/12 19:56	TO-15/RS QA230
Styrene	U	U	0.5		1	12/04/12 19:56	TO-15/RS QA230
1,1,2,2-Tetrachloroethane	U	U	0.5		1	12/04/12 19:56	TO-15/RS QA230
Tetrachloroethene	U	U	0.5		1	12/04/12 19:56	TO-15/RS QA230
Toluene	0.7	0.2	0.5	J	1	12/04/12 19:56	TO-15/RS QA230
1,2,4-Trichlorobenzene	U	U	0.5		1	12/04/12 19:56	TO-15/RS QA230
1,1,1-Trichloroethane	U	U	0.5		1	12/04/12 19:56	TO-15/RS QA230
1,1,2-Trichloroethane	U	U	0.5		1	12/04/12 19:56	TO-15/RS QA230
Trichloroethene	U	U	0.5		1	12/04/12 19:56	TO-15/RS QA230
Trichlorofluoromethane	1.6	0.3	0.5	J	1	12/04/12 19:56	TO-15/RS QA230
1,2,4-Trimethylbenzene	U	U	0.5		1	12/04/12 19:56	TO-15/RS QA230
1,3,5-Trimethylbenzene	U	U	0.5		1	12/04/12 19:56	TO-15/RS QA230
Vinyl chloride	U	U	0.5		1	12/04/12 19:56	TO-15/RS QA230
m,p-Xylene	U	U	1.0		1	12/04/12 19:56	TO-15/RS QA230
o-Xylene	U	U	0.5		1	12/04/12 19:56	TO-15/RS QA230

Surrogates

Analyte	Result ppbv	Flag Qualifies	%Recovery	%Recovery Limit	Prepared	Analysed	Method/REF
<i>Surrogate: Bromofluorobenzene</i>	9.55		96%	80-120	12/04/12	12/04/12 19:56	TO-15/RS QA230