DRAFT

Site Name: West Virginia Chemical Leak **Project #: DAS R34317**

Report Narrative

VOA Analysis Note:
Ethyl ether was detected in the field blanks as a tentatively identified compound (TIC). Please ensure that the source water used to prepare field blanks is free of volatile organics.

1401014 DRAFT DAS R34317 02/11/2014

Freedom_0004520_0001

DRAFT

Site Name: West Virginia Chemical Leak **Project #: DAS R34317**

ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Matrix	Date Sampled	Date Received
CU	1401014-01	Surface Water	1/29/14 14:00	1/30/14 11:45
CD	1401014-02	Surface Water	1/29/14 14:55	1/30/14 11:45
CD1	1401014-03	Surface Water	1/29/14 15:05	1/30/14 11:45
FB01	1401014-04	Water	1/29/14 14:30	1/30/14 11:45
Pipe-1	1401014-06	Water	1/31/14 12:45	2/04/14 11:45
Seep-1	1401014-07	Groundwater	2/01/14 11:45	2/04/14 11:45

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

DRAFT

Site Name: West Virginia Chemical Leak
Project #: DAS R34317
Station ID: CU
Lab ID: 1401014-01
Sample Matrix: Surface Water
Date Collected: 01/29/2014

Semivolatile Organic Compounds
Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Acenaphthene	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
Acenaphthylene	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
Acetophenone	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
Anthracene	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
Atrazine	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
Benzaldehyde	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
Benzo(a)anthracene	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
Benzo(b)fluoranthene	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
Benzo(k)fluoranthene	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
Benzo(ghi)perylene	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
Benzo(a)pyrene	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
1,1-Biphenyl	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
Bis(2-chloroethoxy)methane	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
Bis(2-chloroethyl)ether	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
Bis(2-chloroisopropyl)ether	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
Bis(2-ethylhexyl)phthalate	1.64	J	4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
4-Bromophenyl phenyl ether	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
Butyl benzyl phthalate	0.067	J	4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
Carbazole	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
Caprolactam	U		9.52	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
4-Chloroaniline	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
4-Chloro-3-methylphenol	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
2-Chloronaphthalene	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
2-Chlorophenol	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
4-Chlorophenyl phenyl ether	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
Chrysene	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
Dibenz(a,h)anthracene	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
Dibenzofuran	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
3,3'-Dichlorobenzidine	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
Diethyl phthalate	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
2,4-Dichlorophenol	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
2,4-Dimethylphenol	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
Dimethyl phthalate	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
Di-n-butyl phthalate	0.324	J	4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
4,6-Dinitro-2-methylphenol	U		9.52	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
2,4-Dinitrophenol	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
2,4-Dinitrotoluene	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
2,6-Dinitrotoluene	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
Di-n-octyl phthalate	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
Fluoranthene	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201

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Site Name: West Virginia Chemical Leak
Project #: DAS R34317
Station ID: CU
Lab ID: 1401014-01
Sample Matrix: Surface Water
Date Collected: 01/29/2014

Semivolatile Organic Compounds
Targets (Continued)

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Fluorene	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
Hexachlorobenzene	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
Hexachlorobutadiene	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
Hexachlorocyclopentadiene	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
Hexachloroethane	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
Indeno(1,2,3-cd)pyrene	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
Isophorone	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
2-Methylnaphthalene	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
2-Methylphenol	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
4-Methylphenol	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
Naphthalene	0.076	J	4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
2-Nitroaniline	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
3-Nitroaniline	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
4-Nitroaniline	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
Nitrobenzene	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
2-Nitrophenol	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
4-Nitrophenol	U		19.0	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
N-Nitrosodimethylamine	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
N-Nitroso-di-n-propylamine	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
N-Nitrosodiphenylamine	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
Pentachlorophenol	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
Phenanthrene	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
Phenol	U		9.52	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
Pyrene	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
1,2,4,5-Tetrachlorobenzene	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
2,3,4,6-Tetrachlorophenol	U		4.76	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
2,4,5-Trichlorophenol	U		9.52	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201
2,4,6-Trichlorophenol	U		9.52	1	02/03/14	02/06/14 11:38	EPA 8270D/R3QA201

Surrogates

Analyte	Result ug/L	Flags Qualifiers	**%Recovery**	%Recovery Limits	Prepared	Analyzed	Method/SOP#
Surrogate: 2-Fluorophenol	40.6		**85 %**	*21-110*	02/03/14	02/06/14 11:38	*EPA 8270D/R3QA201*
Surrogate: Phenol-d5	42.3		**89 %**	*39-106*	02/03/14	02/06/14 11:38	*EPA 8270D/R3QA201*
Surrogate: Nitrobenzene-d5	19.1		**80 %**	*43-108*	02/03/14	02/06/14 11:38	*EPA 8270D/R3QA201*
Surrogate: 2-Fluorobiphenyl	20.1		**85 %**	*43-116*	02/03/14	02/06/14 11:38	*EPA 8270D/R3QA201*
Surrogate: 2,4,6-Tribromophenol	41.8		**88 %**	*10-123*	02/03/14	02/06/14 11:38	*EPA 8270D/R3QA201*
Surrogate: Terphenyl-d14	22.0		**92 %**	*33-141*	02/03/14	02/06/14 11:38	*EPA 8270D/R3QA201*

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

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Site Name: West Virginia Chemical Leak	**Project #:** DAS R34317
Station ID: CD	**Lab ID:** 1401014-02
Sample Matrix: Surface Water	**Date Collected:** 01/29/2014

Semivolatile Organic Compounds
Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Acenaphthene	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
Acenaphthylene	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
Acetophenone	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
Anthracene	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
Atrazine	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
Benzaldehyde	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
Benzo(a)anthracene	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
Benzo(b)fluoranthene	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
Benzo(k)fluoranthene	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
Benzo(ghi)perylene	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
Benzo(a)pyrene	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
1,1-Biphenyl	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
Bis(2-chloroethoxy)methane	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
Bis(2-chloroethyl)ether	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
Bis(2-chloroisopropyl)ether	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
Bis(2-ethylhexyl)phthalate	0.581	J	4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
4-Bromophenyl phenyl ether	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
Butyl benzyl phthalate	0.105	J	4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
Carbazole	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
Caprolactam	U		9.52	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
4-Chloroaniline	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
4-Chloro-3-methylphenol	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
2-Chloronaphthalene	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
2-Chlorophenol	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
4-Chlorophenyl phenyl ether	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
Chrysene	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
Dibenz(a,h)anthracene	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
Dibenzofuran	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
3,3'-Dichlorobenzidine	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
Diethyl phthalate	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
2,4-Dichlorophenol	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
2,4-Dimethylphenol	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
Dimethyl phthalate	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
Di-n-butyl phthalate	0.362	J	4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
4,6-Dinitro-2-methylphenol	U		9.52	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
2,4-Dinitrophenol	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
2,4-Dinitrotoluene	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
2,6-Dinitrotoluene	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
Di-n-octyl phthalate	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
Fluoranthene	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
Fluorene	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201

DRAFT

Site Name: West Virginia Chemical Leak
Project #: DAS R34317
Station ID: CD
Lab ID: 1401014-02
Sample Matrix: Surface Water
Date Collected: 01/29/2014

Semivolatile Organic Compounds
Targets (Continued)

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Hexachlorobenzene	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
Hexachlorobutadiene	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
Hexachlorocyclopentadiene	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
Hexachloroethane	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
Indeno(1,2,3-cd)pyrene	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
Isophorone	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
2-Methylnaphthalene	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
2-Methylphenol	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
4-Methylphenol	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
Naphthalene	0.114	J	4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
2-Nitroaniline	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
3-Nitroaniline	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
4-Nitroaniline	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
Nitrobenzene	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
2-Nitrophenol	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
4-Nitrophenol	U		19.0	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
N-Nitrosodimethylamine	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
N-Nitroso-di-n-propylamine	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
N-Nitrosodiphenylamine	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
Pentachlorophenol	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
Phenanthrene	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
Phenol	U		9.52	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
Pyrene	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
1,2,4,5-Tetrachlorobenzene	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
2,3,4,6-Tetrachlorophenol	U		4.76	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
2,4,5-Trichlorophenol	U		9.52	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201
2,4,6-Trichlorophenol	U		9.52	1	02/03/14	02/06/14 12:15	EPA 8270D/R3QA201

Surrogates

Analyte	Result ug/L	Flags Qualifiers	**%Recovery**	%Recovery Limits	Prepared	Analyzed	Method/SOP#
Surrogate: 2-Fluorophenol	40.9		**86 %**	*21-110*	02/03/14	02/06/14 12:15	*EPA 8270D/R3QA201*
Surrogate: Phenol-d5	42.8		**90 %**	*39-106*	02/03/14	02/06/14 12:15	*EPA 8270D/R3QA201*
Surrogate: Nitrobenzene-d5	19.0		**80 %**	*43-108*	02/03/14	02/06/14 12:15	*EPA 8270D/R3QA201*
Surrogate: 2-Fluorobiphenyl	20.2		**85 %**	*43-116*	02/03/14	02/06/14 12:15	*EPA 8270D/R3QA201*
Surrogate: 2,4,6-Tribromophenol	42.6		**90 %**	*10-123*	02/03/14	02/06/14 12:15	*EPA 8270D/R3QA201*
Surrogate: Terphenyl-d14	23.0		**97 %**	*33-141*	02/03/14	02/06/14 12:15	*EPA 8270D/R3QA201*

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

DRAFT

Site Name: West Virginia Chemical Leak
Project #: DAS R34317
Station ID: CD1
Lab ID: 1401014-03
Sample Matrix: Surface Water
Date Collected: 01/29/2014

Semivolatile Organic Compounds
Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Acenaphthene	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
Acenaphthylene	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
Acetophenone	0.057	J	4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
Anthracene	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
Atrazine	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
Benzaldehyde	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
Benzo(a)anthracene	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
Benzo(b)fluoranthene	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
Benzo(k)fluoranthene	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
Benzo(ghi)perylene	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
Benzo(a)pyrene	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
1,1-Biphenyl	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
Bis(2-chloroethoxy)methane	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
Bis(2-chloroethyl)ether	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
Bis(2-chloroisopropyl)ether	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
Bis(2-ethylhexyl)phthalate	0.571	J	4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
4-Bromophenyl phenyl ether	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
Butyl benzyl phthalate	0.095	J	4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
Carbazole	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
Caprolactam	U		9.52	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
4-Chloroaniline	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
4-Chloro-3-methylphenol	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
2-Chloronaphthalene	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
2-Chlorophenol	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
4-Chlorophenyl phenyl ether	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
Chrysene	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
Dibenz(a,h)anthracene	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
Dibenzofuran	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
3,3'-Dichlorobenzidine	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
Diethyl phthalate	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
2,4-Dichlorophenol	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
2,4-Dimethylphenol	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
Dimethyl phthalate	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
Di-n-butyl phthalate	0.324	J	4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
4,6-Dinitro-2-methylphenol	U		9.52	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
2,4-Dinitrophenol	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
2,4-Dinitrotoluene	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
2,6-Dinitrotoluene	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
Di-n-octyl phthalate	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
Fluoranthene	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
Fluorene	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201

DRAFT

Site Name: West Virginia Chemical Leak
Project #: DAS R34317
Station ID: CD1
Lab ID: 1401014-03
Sample Matrix: Surface Water
Date Collected: 01/29/2014

Semivolatile Organic Compounds
Targets (Continued)

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Hexachlorobenzene	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
Hexachlorobutadiene	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
Hexachlorocyclopentadiene	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
Hexachloroethane	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
Indeno(1,2,3-cd)pyrene	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
Isophorone	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
2-Methylnaphthalene	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
2-Methylphenol	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
4-Methylphenol	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
Naphthalene	0.095	J	4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
2-Nitroaniline	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
3-Nitroaniline	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
4-Nitroaniline	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
Nitrobenzene	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
2-Nitrophenol	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
4-Nitrophenol	U		19.0	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
N-Nitrosodimethylamine	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
N-Nitroso-di-n-propylamine	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
N-Nitrosodiphenylamine	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
Pentachlorophenol	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
Phenanthrene	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
Phenol	U		9.52	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
Pyrene	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
1,2,4,5-Tetrachlorobenzene	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
2,3,4,6-Tetrachlorophenol	U		4.76	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
2,4,5-Trichlorophenol	U		9.52	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201
2,4,6-Trichlorophenol	U		9.52	1	02/03/14	02/06/14 12:53	EPA 8270D/R3QA201

Surrogates

Analyte	Result ug/L	Flags Qualifiers	**%Recovery**	%Recovery Limits	Prepared	Analyzed	Method/SOP#
Surrogate: 2-Fluorophenol	37.6		**79 %**	*21-110*	02/03/14	02/06/14 12:53	*EPA 8270D/R3QA201*
Surrogate: Phenol-d5	38.4		**81 %**	*39-106*	02/03/14	02/06/14 12:53	*EPA 8270D/R3QA201*
Surrogate: Nitrobenzene-d5	16.9		**71 %**	*43-108*	02/03/14	02/06/14 12:53	*EPA 8270D/R3QA201*
Surrogate: 2-Fluorobiphenyl	17.8		**75 %**	*43-116*	02/03/14	02/06/14 12:53	*EPA 8270D/R3QA201*
Surrogate: 2,4,6-Tribromophenol	38.3		**80 %**	*10-123*	02/03/14	02/06/14 12:53	*EPA 8270D/R3QA201*
Surrogate: Terphenyl-d14	20.6		**87 %**	*33-141*	02/03/14	02/06/14 12:53	*EPA 8270D/R3QA201*

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

DRAFT

Site Name: West Virginia Chemical Leak
Project #: DAS R34317
Station ID: FB01
Lab ID: 1401014-04
Sample Matrix: Water
Date Collected: 01/29/2014

Semivolatile Organic Compounds
Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Acenaphthene	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
Acenaphthylene	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
Acetophenone	0.114	J	4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
Anthracene	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
Atrazine	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
Benzaldehyde	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
Benzo(a)anthracene	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
Benzo(b)fluoranthene	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
Benzo(k)fluoranthene	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
Benzo(ghi)perylene	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
Benzo(a)pyrene	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
1,1-Biphenyl	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
Bis(2-chloroethoxy)methane	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
Bis(2-chloroethyl)ether	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
Bis(2-chloroisopropyl)ether	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
Bis(2-ethylhexyl)phthalate	0.105	J	4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
4-Bromophenyl phenyl ether	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
Butyl benzyl phthalate	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
Carbazole	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
Caprolactam	U		9.52	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
4-Chloroaniline	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
4-Chloro-3-methylphenol	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
2-Chloronaphthalene	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
2-Chlorophenol	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
4-Chlorophenyl phenyl ether	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
Chrysene	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
Dibenz(a,h)anthracene	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
Dibenzofuran	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
3,3'-Dichlorobenzidine	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
Diethyl phthalate	0.067	J	4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
2,4-Dichlorophenol	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
2,4-Dimethylphenol	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
Dimethyl phthalate	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
Di-n-butyl phthalate	0.429	J	4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
4,6-Dinitro-2-methylphenol	U		9.52	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
2,4-Dinitrophenol	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
2,4-Dinitrotoluene	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
2,6-Dinitrotoluene	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
Di-n-octyl phthalate	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
Fluoranthene	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
Fluorene	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201

DRAFT

Site Name: West Virginia Chemical Leak
Project #: DAS R34317
Station ID: FB01
Lab ID: 1401014-04
Sample Matrix: Water
Date Collected: 01/29/2014

Semivolatile Organic Compounds
Targets (Continued)

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Hexachlorobenzene	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
Hexachlorobutadiene	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
Hexachlorocyclopentadiene	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
Hexachloroethane	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
Indeno(1,2,3-cd)pyrene	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
Isophorone	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
2-Methylnaphthalene	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
2-Methylphenol	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
4-Methylphenol	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
Naphthalene	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
2-Nitroaniline	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
3-Nitroaniline	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
4-Nitroaniline	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
Nitrobenzene	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
2-Nitrophenol	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
4-Nitrophenol	U		19.0	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
N-Nitrosodimethylamine	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
N-Nitroso-di-n-propylamine	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
N-Nitrosodiphenylamine	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
Pentachlorophenol	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
Phenanthrene	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
Phenol	U		9.52	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
Pyrene	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
1,2,4,5-Tetrachlorobenzene	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
2,3,4,6-Tetrachlorophenol	U		4.76	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
2,4,5-Trichlorophenol	U		9.52	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201
2,4,6-Trichlorophenol	U		9.52	1	02/03/14	02/06/14 13:30	EPA 8270D/R3QA201

Surrogates

Analyte	Result ug/L	Flags Qualifiers	**%Recovery**	%Recovery Limits	Prepared	Analyzed	Method/SOP#
Surrogate: 2-Fluorophenol	41.7		**88 %**	*21-110*	02/03/14	02/06/14 13:30	*EPA 8270D/R3QA201*
Surrogate: Phenol-d5	42.2		**89 %**	*39-106*	02/03/14	02/06/14 13:30	*EPA 8270D/R3QA201*
Surrogate: Nitrobenzene-d5	19.0		**80 %**	*43-108*	02/03/14	02/06/14 13:30	*EPA 8270D/R3QA201*
Surrogate: 2-Fluorobiphenyl	19.5		**82 %**	*43-116*	02/03/14	02/06/14 13:30	*EPA 8270D/R3QA201*
Surrogate: 2,4,6-Tribromophenol	39.3		**82 %**	*10-123*	02/03/14	02/06/14 13:30	*EPA 8270D/R3QA201*
Surrogate: Terphenyl-d14	22.0		**93 %**	*33-141*	02/03/14	02/06/14 13:30	*EPA 8270D/R3QA201*

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Site Name: **West Virginia Chemical Leak** **Project #:** **DAS R34317**

Tentatively Identified Compound (TIC) Report

Semivolatile Organic Compounds

CAS Number	Compound	Result ug/L	Analyte Qualifiers	Retention Time	Analyzed	Method/SOP#
Lab ID:	1401014-01					
Station ID:	CU					
Sample Matrix:	Surface Water					
Collected:	01/29/2014					
34885-03-5	MCHM	61.7			02/06/14 10:43	EPA 8270D/R3QA201
770-35-4	PPH	0.491			02/05/14 18:46	EPA 8270D/R3QA201
NA	unknown	2.06		4.79	02/06/14 11:38	EPA 8270D/R3QA201
3937-49-3	Cyclohexanemethanol, 4-methyl-, tr (01)	24.6		8.03	02/06/14 11:38	EPA 8270D/R3QA201
3937-49-3	Cyclohexanemethanol, 4-methyl-, tr (02)	13.9		8.34	02/06/14 11:38	EPA 8270D/R3QA201
57-10-3	n-Hexadecanoic acid	1.98		17.95	02/06/14 11:38	EPA 8270D/R3QA201
57-11-4	Octadecanoic acid	2.92		19.64	02/06/14 11:38	EPA 8270D/R3QA201

Semivolatile Organic Compounds

CAS Number	Compound	Result ug/L	Analyte Qualifiers	Retention Time	Analyzed	Method/SOP#
Lab ID:	1401014-02					
Station ID:	CD					
Sample Matrix:	Surface Water					
Collected:	01/29/2014					
34885-03-5	MCHM	145			02/06/14 11:34	EPA 8270D/R3QA201
770-35-4	PPH	0.913			02/05/14 19:36	EPA 8270D/R3QA201
NA	unknown (01)	3.05		6.06	02/06/14 12:15	EPA 8270D/R3QA201
3937-49-3	Cyclohexanemethanol, 4-methyl-, tr	55.4		8.05	02/06/14 12:15	EPA 8270D/R3QA201
4331-54-8	Cyclohexanecarboxylic acid, 4-meth	3.73		9.67	02/06/14 12:15	EPA 8270D/R3QA201
29474-11-1	1-Hydroxymethyl-2-methyl-1-cyclohe	3.53		11.15	02/06/14 12:15	EPA 8270D/R3QA201
NA	unknown (02)	2.39		12.36	02/06/14 12:15	EPA 8270D/R3QA201
NA	unknown (03)	2.40		14.18	02/06/14 12:15	EPA 8270D/R3QA201

DRAFT

Site Name: **West Virginia Chemical Leak** **Project #:** **DAS R34317**

Tentatively Identified Compound (TIC) Report

Semivolatile Organic Compounds

CAS Number	Compound	Result ug/L	Analyte Qualifiers	Retention Time	Analyzed	Method/SOP#
Lab ID:	1401014-03					
Station ID:	CD1					
Sample Matrix:	Surface Water					
Collected:	01/29/2014					
34885-03-5	MCHM	124			02/06/14 12:25	EPA 8270D/R3QA201
770-35-4	PPH	0.803			02/05/14 20:27	EPA 8270D/R3QA201
4291-80-9	Cyclohexane, 1-methyl-3-propyl-	2.16		6.23	02/06/14 12:53	EPA 8270D/R3QA201
3937-49-3	Cyclohexanemethanol, 4-methyl-, tr	48.8		8.05	02/06/14 12:53	EPA 8270D/R3QA201
4331-54-8	Cyclohexanecarboxylic acid, 4-meth	2.85		9.67	02/06/14 12:53	EPA 8270D/R3QA201
29474-11-1	1-Hydroxymethyl-2-methyl-1-cyclohe	2.99		11.15	02/06/14 12:53	EPA 8270D/R3QA201
NA	unknown	2.31		14.18	02/06/14 12:53	EPA 8270D/R3QA201

Semivolatile Organic Compounds

CAS Number	Compound	Result ug/L	Analyte Qualifiers	Retention Time	Analyzed	Method/SOP#
Lab ID:	1401014-04					
Station ID:	FB01					
Sample Matrix:	Water					
Collected:	01/29/2014					
34885-03-5	MCHM	U			02/05/14 21:17	EPA 8270D/R3QA201
770-35-4	PPH	U			02/05/14 21:17	EPA 8270D/R3QA201
90-05-1	Phenol, 2-methoxy-	5.85		8.45	02/06/14 13:30	EPA 8270D/R3QA201

Semivolatile Organic Compounds

CAS Number	Compound	Result ug/L	Analyte Qualifiers	Retention Time	Analyzed	Method/SOP#
Lab ID:	1401014-06					
Station ID:	Pipe-1					
Sample Matrix:	Water					
Collected:	01/31/2014					
34885-03-5	MCHM	221000			02/10/14 17:07	EPA 8270D/R3QA201
770-35-4	PPH	260			02/07/14 16:13	EPA 8270D/R3QA201

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

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Site Name: **West Virginia Chemical Leak** **Project #:** **DAS R34317**

Tentatively Identified Compound (TIC) Report

Semivolatile Organic Compounds

CAS Number	Compound	Result ug/L	Analyte Qualifiers	Retention Time	Analyzed	Method/SOP#
Lab ID:	1401014-07					
Station ID:	Seep-1					
Sample Matrix:	Groundwater					
Collected:	02/01/2014					
770-35-4	PPH	U			02/10/14 16:17	EPA 8270D/R3QA201
34885-03-5	MCHM	10.5			02/10/14 16:17	EPA 8270D/R3QA201

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Site Name: West Virginia Chemical Leak **Project #: DAS R34317**

QC Data
Semivolatile Organic Compounds

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BB40301 - EPA 3520C SVOC										
Blank (BB40301-BLK1)				Prepared: 02/03/14 07:30	Analyzed: 02/06/14 10:23					
Acenaphthene	U	5.00	ug/L							
Acenaphthylene	U	5.00	"							
Acetophenone	U	5.00	"							
Anthracene	U	5.00	"							
Atrazine	U	5.00	"							
Benzaldehyde	U	5.00	"							
Benzo(a)anthracene	U	5.00	"							
Benzo(b)fluoranthene	U	5.00	"							
Benzo(k)fluoranthene	U	5.00	"							
Benzo(ghi)perylene	U	5.00	"							
Benzo(a)pyrene	U	5.00	"							
1,1-Biphenyl	U	5.00	"							
Bis(2-chloroethoxy)methane	U	5.00	"							
Bis(2-chloroethyl)ether	U	5.00	"							
Bis(2-chloroisopropyl)ether	U	5.00	"							
Bis(2-ethylhexyl)phthalate	0.180	5.00	"							J
4-Bromophenyl phenyl ether	U	5.00	"							
Butyl benzyl phthalate	U	5.00	"							
Carbazole	U	5.00	"							
Caprolactam	U	10.0	"							
4-Chloroaniline	U	5.00	"							
4-Chloro-3-methylphenol	U	5.00	"							
2-Chloronaphthalene	U	5.00	"							
2-Chlorophenol	U	5.00	"							
4-Chlorophenyl phenyl ether	U	5.00	"							
Chrysene	U	5.00	"							
Dibenz(a,h)anthracene	U	5.00	"							
Dibenzofuran	U	5.00	"							
3,3'-Dichlorobenzidine	U	5.00	"							
Diethyl phthalate	U	5.00	"							
2,4-Dichlorophenol	U	5.00	"							
2,4-Dimethylphenol	U	5.00	"							
Dimethyl phthalate	2.36	5.00	"							J
Di-n-butyl phthalate	0.700	5.00	"							J
4,6-Dinitro-2-methylphenol	U	10.0	"							
2,4-Dinitrophenol	U	5.00	"							
2,4-Dinitrotoluene	U	5.00	"							
2,6-Dinitrotoluene	U	5.00	"							
Di-n-octyl phthalate	U	5.00	"							

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Site Name: West Virginia Chemical Leak **Project #: DAS R34317**

QC Data
Semivolatile Organic Compounds

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BB40301 - EPA 3520C SVOC										
Blank (BB40301-BLK1)				Prepared: 02/03/14 07:30	Analyzed: 02/06/14 10:23					
Fluoranthene	U	5.00	ug/L							
Fluorene	U	5.00	"							
Hexachlorobenzene	U	5.00	"							
Hexachlorobutadiene	U	5.00	"							
Hexachlorocyclopentadiene	U	5.00	"							
Hexachloroethane	U	5.00	"							
Indeno(1,2,3-cd)pyrene	U	5.00	"							
Isophorone	U	5.00	"							
2-Methylnaphthalene	U	5.00	"							
2-Methylphenol	U	5.00	"							
4-Methylphenol	U	5.00	"							
Naphthalene	U	5.00	"							
2-Nitroaniline	U	5.00	"							
3-Nitroaniline	U	5.00	"							
4-Nitroaniline	U	5.00	"							
Nitrobenzene	U	5.00	"							
2-Nitrophenol	U	5.00	"							
4-Nitrophenol	U	20.0	"							
N-Nitrosodimethylamine	U	5.00	"							
N-Nitroso-di-n-propylamine	U	5.00	"							
N-Nitrosodiphenylamine	U	5.00	"							
Pentachlorophenol	U	5.00	"							
Phenanthrene	U	5.00	"							
Phenol	U	10.0	"							
Pyrene	U	5.00	"							
1,2,4,5-Tetrachlorobenzene	U	5.00	"							
2,3,4,6-Tetrachlorophenol	U	5.00	"							
2,4,5-Trichlorophenol	U	10.0	"							
2,4,6-Trichlorophenol	U	10.0	"							
Cyclopentane, 1,1,3,3-tetramethyl-	3.64		"							
Ethanone, 1-(2,2-dimethylcyclopentyl)-	5.40		"							
Cyclopentanone, 2-(1-methylpropyl)-	3.74		"							
Cyclohexane, 1-methyl-2-propyl- (02)	13.0		"							
Cyclohexane, 1-methyl-2-propyl- (01)	3.96		"							
Decane, 3,3,4-trimethyl-	24.7		"							
Sulfurous acid, cyclohexylmethyl tridecyl este	2.40		"							
PPH	U	0.500	"							
Furan, 2,3-dihydro-4-methyl-	23.0		"							
MCHM	U	0.500	"							
2-Butenal, 2-methyl-	2.66		"							
2-Pentenal, (E)-	4.32		"							
2,3-Dimethyl-2-heptene	2.06		"							

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Site Name: West Virginia Chemical Leak **Project #: DAS R34317**

QC Data
Semivolatile Organic Compounds

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BB40301 - EPA 3520C SVOC										
Blank (BB40301-BLK1)				Prepared: 02/03/14 07:30		Analyzed: 02/06/14 10:23				
Ethanedioic acid, bis(3-methylbutyl) ester	2.79		ug/L							
1-Pentene, 3-ethyl-2-methyl-	2.45		"							
2,3-Dimethyl-1-hexene	3.14		"							
3-Ethyl-4-methyl-2-pentene	9.42		"							
Surrogate: 2-Fluorophenol	*43.1*		"	*50.000*		*86*	*21-110*			
Surrogate: Phenol-d5	*44.4*		"	*50.000*		*89*	*39-106*			
Surrogate: Nitrobenzene-d5	*20.1*		"	*25.000*		*80*	*43-108*			
Surrogate: 2-Fluorobiphenyl	*20.0*		"	*25.000*		*80*	*43-116*			
Surrogate: 2,4,6-Tribromophenol	*42.5*		"	*50.000*		*85*	*10-123*			
Surrogate: Terphenyl-d14	*21.9*		"	*25.000*		*87*	*33-141*			
LCS (BB40301-BS1)				Prepared: 02/03/14 07:30		Analyzed: 02/06/14 11:01				
Acenaphthene	33.9	5.00	ug/L	40.000		85	60-132			
Acenaphthylene	36.6	5.00	"	40.000		91	53-126			
Acetophenone	33.3	5.00	"	40.000		83	30-160			
Anthracene	33.5	5.00	"	40.000		84	43-118			
Atrazine	76.7	5.00	"	40.000		192	30-160			
Benzaldehyde	28.9	5.00	"	40.000		72	30-160			
Benzo(a)anthracene	U	5.00	"	40.000			41-133			
Benzo(b)fluoranthene	U	5.00	"	40.000			42-140			
Benzo(k)fluoranthene	U	5.00	"	40.000			25-146			
Benzo(ghi)perylene	27.3	5.00	"	40.000		68	0.01-195			
Benzo(a)pyrene	U	5.00	"	40.000			31-148			
1,1-Biphenyl	33.8	5.00	"	40.000		85	30-160			
Bis(2-chloroethoxy)methane	31.2	5.00	"	40.000		78	49-165			
Bis(2-chloroethyl)ether	31.2	5.00	"	40.000		78	42-126			
Bis(2-chloroisopropyl)ether	26.8	5.00	"	40.000		67	62-139			
Bis(2-ethylhexyl)phthalate	28.5	5.00	"	40.000		71	28-137			
4-Bromophenyl phenyl ether	32.3	5.00	"	40.000		81	64-114			
Butyl benzyl phthalate	46.2	5.00	"	40.000		115	0.01-140			
Carbazole	71.9	5.00	"	40.000		180	30-160			
Caprolactam	28.6	10.0	"	40.000		71	30-160			
4-Chloroaniline	24.5	5.00	"	40.000		61	30-160			
4-Chloro-3-methylphenol	33.5	5.00	"	40.000		84	40-128			
2-Chloronaphthalene	34.0	5.00	"	40.000		85	64-114			
2-Chlorophenol	33.7	5.00	"	40.000		84	36-121			
4-Chlorophenyl phenyl ether	34.5	5.00	"	40.000		86	38-145			
Chrysene	30.9	5.00	"	40.000		77	44-140			
Dibenz(a,h)anthracene	28.0	5.00	"	40.000		70	0.01-200			
Dibenzofuran	33.3	5.00	"	40.000		83	30-160			
3,3'-Dichlorobenzidine	U	5.00	"	40.000			8-213			
Diethyl phthalate	34.9	5.00	"	40.000		87	0.01-100			

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Site Name: West Virginia Chemical Leak **Project #: DAS R34317**

QC Data
Semivolatile Organic Compounds

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BB40301 - EPA 3520C SVOC										
LCS (BB40301-BS1)				Prepared: 02/03/14 07:30		Analyzed: 02/06/14 11:01				
2,4-Dichlorophenol	32.7	5.00	ug/L	40.000		82	52-122			
2,4-Dimethylphenol	28.6	5.00	"	40.000		71	41-109			
Dimethyl phthalate	35.6	5.00	"	40.000		89	0.01-100			
Di-n-butyl phthalate	35.4	5.00	"	40.000		89	8-111			
4,6-Dinitro-2-methylphenol	30.6	10.0	"	40.000		77	53-100			
2,4-Dinitrophenol	16.8	5.00	"	40.000		42	0.01-173			
2,4-Dinitrotoluene	33.1	5.00	"	40.000		83	47-127			
2,6-Dinitrotoluene	34.1	5.00	"	40.000		85	68-138			
Di-n-octyl phthalate	37.7	5.00	"	40.000		94	18-132			
Fluoranthene	31.7	5.00	"	40.000		79	42-122			
Fluorene	33.9	5.00	"	40.000		85	71-109			
Hexachlorobenzene	32.4	5.00	"	40.000		81	10-142			
Hexachlorobutadiene	31.1	5.00	"	40.000		78	37-103			
Hexachlorocyclopentadiene	17.5	5.00	"	40.000		44	0.01-104			
Hexachloroethane	31.1	5.00	"	40.000		78	55-100			
Indeno(1,2,3-cd)pyrene	28.2	5.00	"	40.000		71	0.01-151			
Isophorone	31.9	5.00	"	40.000		80	46-181			
2-Methylnaphthalene	32.9	5.00	"	40.000		82	30-160			
2-Methylphenol	34.1	5.00	"	40.000		85	30-160			
4-Methylphenol	33.1	5.00	"	40.000		83	30-160			
Naphthalene	33.0	5.00	"	40.000		83	35-120			
2-Nitroaniline	34.3	5.00	"	40.000		86	30-160			
3-Nitroaniline	34.3	5.00	"	40.000		86	30-160			
4-Nitroaniline	28.6	5.00	"	40.000		72	30-160			
Nitrobenzene	30.7	5.00	"	40.000		77	54-158			
2-Nitrophenol	30.1	5.00	"	40.000		75	45-167			
4-Nitrophenol	32.5	20.0	"	40.000		81	13-107			
N-Nitrosodimethylamine	22.0	5.00	"	40.000		55	30-160			
N-Nitroso-di-n-propylamine	35.1	5.00	"	40.000		88	41-116			
N-Nitrosodiphenylamine	43.4	5.00	"	40.000		109	30-160			
Pentachlorophenol	30.6	5.00	"	40.000		77	9-103			
Phenanthrene	33.1	5.00	"	40.000		83	65-109			
Phenol	30.4	10.0	"	40.000		76	12-110			
Pyrene	36.3	5.00	"	40.000		91	69-100			
1,2,4,5-Tetrachlorobenzene	32.1	5.00	"	40.000		80	30-160			
2,3,4,6-Tetrachlorophenol	33.2	5.00	"	40.000		83	30-160			
2,4,5-Trichlorophenol	34.2	10.0	"	40.000		86	30-160			
2,4,6-Trichlorophenol	33.6	10.0	"	40.000		84	52-130			
PPH	4.65	0.500	"							
MCHM	4.73	0.500	"							
Surrogate: 2-Fluorophenol	*41.1*		"	*50.000*		*82*	*21-110*			
Surrogate: Phenol-d5	*43.0*		"	*50.000*		*86*	*39-106*			

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Site Name: West Virginia Chemical Leak **Project #: DAS R34317**

QC Data
Semivolatile Organic Compounds

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BB40301 - EPA 3520C SVOC										
LCS (BB40301-BS1)				Prepared: 02/03/14 07:30		Analyzed: 02/06/14 11:01				
Surrogate: Nitrobenzene-d5	*20.8*		*ug/L*	*25.000*		*83*	*43-108*			
Surrogate: 2-Fluorobiphenyl	*21.7*		*"*	*25.000*		*87*	*43-116*			
Surrogate: 2,4,6-Tribromophenol	*44.2*		*"*	*50.000*		*88*	*10-123*			
Surrogate: Terphenyl-d14	*30.2*		*"*	*25.000*		*121*	*33-141*			
Batch BB40502 - EPA 3520C SVOC										
Blank (BB40502-BLK1)				Prepared: 02/05/14 13:07		Analyzed: 02/11/14 07:47				
Acenaphthene	U	5.00	ug/L							
Acenaphthylene	U	5.00	"							
Acetophenone	U	5.00	"							
Anthracene	U	5.00	"							
Atrazine	U	5.00	"							
Benzaldehyde	U	5.00	"							
Benzo(a)anthracene	U	5.00	"							
Benzo(b)fluoranthene	U	5.00	"							
Benzo(k)fluoranthene	U	5.00	"							
Benzo(ghi)perylene	U	5.00	"							
Benzo(a)pyrene	U	5.00	"							
1,1-Biphenyl	U	5.00	"							
Bis(2-chloroethoxy)methane	U	5.00	"							
Bis(2-chloroethyl)ether	U	5.00	"							
Bis(2-chloroisopropyl)ether	U	5.00	"							
Bis(2-ethylhexyl)phthalate	U	5.00	"							
4-Bromophenyl phenyl ether	U	5.00	"							
Butyl benzyl phthalate	U	5.00	"							
Carbazole	U	5.00	"							
Caprolactam	U	10.0	"							
4-Chloroaniline	U	5.00	"							
4-Chloro-3-methylphenol	U	5.00	"							
2-Chloronaphthalene	U	5.00	"							
2-Chlorophenol	U	5.00	"							
4-Chlorophenyl phenyl ether	U	5.00	"							
Chrysene	U	5.00	"							
Dibenz(a,h)anthracene	U	5.00	"							
Dibenzofuran	U	5.00	"							
3,3'-Dichlorobenzidine	U	5.00	"							
Diethyl phthalate	U	5.00	"							
2,4-Dichlorophenol	U	5.00	"							
2,4-Dimethylphenol	U	5.00	"							
Dimethyl phthalate	U	5.00	"							
Di-n-butyl phthalate	U	5.00	"							

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Site Name: West Virginia Chemical Leak **Project #: DAS R34317**

QC Data
Semivolatile Organic Compounds

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BB40502 - EPA 3520C SVOC										
Blank (BB40502-BLK1)				Prepared: 02/05/14 13:07		Analyzed: 02/11/14 07:47				
4,6-Dinitro-2-methylphenol	U	10.0	ug/L							
2,4-Dinitrophenol	U	5.00	"							
2,4-Dinitrotoluene	U	5.00	"							
2,6-Dinitrotoluene	U	5.00	"							
Di-n-octyl phthalate	U	5.00	"							
Fluoranthene	U	5.00	"							
Fluorene	U	5.00	"							
Hexachlorobenzene	U	5.00	"							
Hexachlorobutadiene	U	5.00	"							
Hexachlorocyclopentadiene	U	5.00	"							
Hexachloroethane	U	5.00	"							
Indeno(1,2,3-cd)pyrene	U	5.00	"							
Isophorone	U	5.00	"							
2-Methylnaphthalene	U	5.00	"							
2-Methylphenol	U	5.00	"							
4-Methylphenol	U	5.00	"							
Naphthalene	U	5.00	"							
2-Nitroaniline	U	5.00	"							
3-Nitroaniline	U	5.00	"							
4-Nitroaniline	U	5.00	"							
Nitrobenzene	U	5.00	"							
2-Nitrophenol	U	5.00	"							
4-Nitrophenol	U	20.0	"							
N-Nitrosodimethylamine	U	5.00	"							
N-Nitroso-di-n-propylamine	U	5.00	"							
N-Nitrosodiphenylamine	U	5.00	"							
Pentachlorophenol	U	5.00	"							
Phenanthrene	U	5.00	"							
Phenol	U	10.0	"							
Pyrene	U	5.00	"							
1,2,4,5-Tetrachlorobenzene	U	5.00	"							
2,3,4,6-Tetrachlorophenol	U	5.00	"							
2,4,5-Trichlorophenol	U	10.0	"							
2,4,6-Trichlorophenol	U	10.0	"							
MCHM	U	0.500	"							
PPH	U	0.500	"							
Surrogate: 2-Fluorophenol	*U*		*"*	*50.000*			*21-110*			
Surrogate: Phenol-d5	*U*		*"*	*50.000*			*39-106*			
Surrogate: Nitrobenzene-d5	*U*		*"*	*25.000*			*43-108*			
Surrogate: 2-Fluorobiphenyl	*U*		*"*	*25.000*			*43-116*			
Surrogate: 2,4,6-Tribromophenol	*U*		*"*	*50.000*			*10-123*			
Surrogate: Terphenyl-d14	*U*		*"*	*25.000*			*33-141*			

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Site Name: West Virginia Chemical Leak **Project #: DAS R34317**

QC Data
Semivolatile Organic Compounds

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BB40502 - EPA 3520C SVOC										
LCS (BB40502-BS1)				Prepared: 02/05/14 13:07		Analyzed: 02/11/14 07:47				
Acenaphthene	U	5.00	ug/L	40.000			60-132			
Acenaphthylene	U	5.00	"	40.000			53-126			
Acetophenone	U	5.00	"	40.000			30-160			
Anthracene	U	5.00	"	40.000			43-118			
Atrazine	U	5.00	"	40.000			30-160			
Benzaldehyde	U	5.00	"	40.000			30-160			
Benzo(a)anthracene	U	5.00	"	40.000			41-133			
Benzo(b)fluoranthene	U	5.00	"	40.000			42-140			
Benzo(k)fluoranthene	U	5.00	"	40.000			25-146			
Benzo(ghi)perylene	U	5.00	"	40.000			0.01-195			
Benzo(a)pyrene	U	5.00	"	40.000			31-148			
1,1-Biphenyl	U	5.00	"	40.000			30-160			
Bis(2-chloroethoxy)methane	U	5.00	"	40.000			49-165			
Bis(2-chloroethyl)ether	U	5.00	"	40.000			42-126			
Bis(2-chloroisopropyl)ether	U	5.00	"	40.000			62-139			
Bis(2-ethylhexyl)phthalate	U	5.00	"	40.000			28-137			
4-Bromophenyl phenyl ether	U	5.00	"	40.000			64-114			
Butyl benzyl phthalate	U	5.00	"	40.000			0.01-140			
Carbazole	U	5.00	"	40.000			30-160			
Caprolactam	U	10.0	"	40.000			30-160			
4-Chloroaniline	U	5.00	"	40.000			30-160			
4-Chloro-3-methylphenol	U	5.00	"	40.000			40-128			
2-Chloronaphthalene	U	5.00	"	40.000			64-114			
2-Chlorophenol	U	5.00	"	40.000			36-121			
4-Chlorophenyl phenyl ether	U	5.00	"	40.000			38-145			
Chrysene	U	5.00	"	40.000			44-140			
Dibenz(a,h)anthracene	U	5.00	"	40.000			0.01-200			
Dibenzofuran	U	5.00	"	40.000			30-160			
3,3'-Dichlorobenzidine	U	5.00	"	40.000			8-213			
Diethyl phthalate	U	5.00	"	40.000			0.01-100			
2,4-Dichlorophenol	U	5.00	"	40.000			52-122			
2,4-Dimethylphenol	U	5.00	"	40.000			41-109			
Dimethyl phthalate	U	5.00	"	40.000			0.01-100			
Di-n-butyl phthalate	U	5.00	"	40.000			8-111			
4,6-Dinitro-2-methylphenol	U	10.0	"	40.000			53-100			
2,4-Dinitrophenol	U	5.00	"	40.000			0.01-173			
2,4-Dinitrotoluene	U	5.00	"	40.000			47-127			
2,6-Dinitrotoluene	U	5.00	"	40.000			68-138			
Di-n-octyl phthalate	U	5.00	"	40.000			18-132			
Fluoranthene	U	5.00	"	40.000			42-122			
Fluorene	U	5.00	"	40.000			71-109			
Hexachlorobenzene	U	5.00	"	40.000			10-142			

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Site Name: West Virginia Chemical Leak **Project #: DAS R34317**

QC Data
Semivolatile Organic Compounds

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BB40502 - EPA 3520C SVOC										
LCS (BB40502-BS1)				Prepared: 02/05/14 13:07			Analyzed: 02/11/14 07:47			
Hexachlorobutadiene	U	5.00	ug/L	40.000			37-103			
Hexachlorocyclopentadiene	U	5.00	"	40.000			0.01-104			
Hexachloroethane	U	5.00	"	40.000			55-100			
Indeno(1,2,3-cd)pyrene	U	5.00	"	40.000			0.01-151			
Isophorone	U	5.00	"	40.000			46-181			
2-Methylnaphthalene	U	5.00	"	40.000			30-160			
2-Methylphenol	U	5.00	"	40.000			30-160			
4-Methylphenol	U	5.00	"	40.000			30-160			
Naphthalene	U	5.00	"	40.000			35-120			
2-Nitroaniline	U	5.00	"	40.000			30-160			
3-Nitroaniline	U	5.00	"	40.000			30-160			
4-Nitroaniline	U	5.00	"	40.000			30-160			
Nitrobenzene	U	5.00	"	40.000			54-158			
2-Nitrophenol	U	5.00	"	40.000			45-167			
4-Nitrophenol	U	20.0	"	40.000			13-107			
N-Nitrosodimethylamine	U	5.00	"	40.000			30-160			
N-Nitroso-di-n-propylamine	U	5.00	"	40.000			41-116			
N-Nitrosodiphenylamine	U	5.00	"	40.000			30-160			
Pentachlorophenol	U	5.00	"	40.000			9-103			
Phenanthrene	U	5.00	"	40.000			65-109			
Phenol	U	10.0	"	40.000			12-110			
Pyrene	U	5.00	"	40.000			69-100			
1,2,4,5-Tetrachlorobenzene	U	5.00	"	40.000			30-160			
2,3,4,6-Tetrachlorophenol	U	5.00	"	40.000			30-160			
2,4,5-Trichlorophenol	U	10.0	"	40.000			30-160			
2,4,6-Trichlorophenol	U	10.0	"	40.000			52-130			
PPH	4.61	0.500	"							
MCHM	4.83	0.500	"							
Surrogate: 2-Fluorophenol	*U*		*"*	*50.000*			*21-110*			
Surrogate: Phenol-d5	*U*		*"*	*50.000*			*39-106*			
Surrogate: Nitrobenzene-d5	*U*		*"*	*25.000*			*43-108*			
Surrogate: 2-Fluorobiphenyl	*U*		*"*	*25.000*			*43-116*			
Surrogate: 2,4,6-Tribromophenol	*U*		*"*	*50.000*			*10-123*			
Surrogate: Terphenyl-d14	*U*		*"*	*25.000*			*33-141*			

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Site Name: West Virginia Chemical Leak **Project #: DAS R34317**

QC Data
Semivolatile Organic Compounds

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BB41002 - EPA 3520C SVOC										
Blank (BB41002-BLK1)				Prepared: 02/10/14 10:14	Analyzed: 02/11/14 07:47					
Acenaphthene	U	5.00	ug/L							
Acenaphthylene	U	5.00	"							
Acetophenone	U	5.00	"							
Anthracene	U	5.00	"							
Atrazine	U	5.00	"							
Benzaldehyde	U	5.00	"							
Benzo(a)anthracene	U	5.00	"							
Benzo(b)fluoranthene	U	5.00	"							
Benzo(k)fluoranthene	U	5.00	"							
Benzo(ghi)perylene	U	5.00	"							
Benzo(a)pyrene	U	5.00	"							
1,1-Biphenyl	U	5.00	"							
Bis(2-chloroethoxy)methane	U	5.00	"							
Bis(2-chloroethyl)ether	U	5.00	"							
Bis(2-chloroisopropyl)ether	U	5.00	"							
Bis(2-ethylhexyl)phthalate	U	5.00	"							
4-Bromophenyl phenyl ether	U	5.00	"							
Butyl benzyl phthalate	U	5.00	"							
Carbazole	U	5.00	"							
Caprolactam	U	10.0	"							
4-Chloroaniline	U	5.00	"							
4-Chloro-3-methylphenol	U	5.00	"							
2-Chloronaphthalene	U	5.00	"							
2-Chlorophenol	U	5.00	"							
4-Chlorophenyl phenyl ether	U	5.00	"							
Chrysene	U	5.00	"							
Dibenz(a,h)anthracene	U	5.00	"							
Dibenzofuran	U	5.00	"							
3,3'-Dichlorobenzidine	U	5.00	"							
Diethyl phthalate	U	5.00	"							
2,4-Dichlorophenol	U	5.00	"							
2,4-Dimethylphenol	U	5.00	"							
Dimethyl phthalate	U	5.00	"							
Di-n-butyl phthalate	U	5.00	"							
4,6-Dinitro-2-methylphenol	U	10.0	"							
2,4-Dinitrophenol	U	5.00	"							
2,4-Dinitrotoluene	U	5.00	"							
2,6-Dinitrotoluene	U	5.00	"							
Di-n-octyl phthalate	U	5.00	"							
Fluoranthene	U	5.00	"							
Fluorene	U	5.00	"							
Hexachlorobenzene	U	5.00	"							

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Site Name: West Virginia Chemical Leak **Project #: DAS R34317**

QC Data
Semivolatile Organic Compounds

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BB41002 - EPA 3520C SVOC										
Blank (BB41002-BLK1)				Prepared: 02/10/14 10:14	Analyzed: 02/11/14 07:47					
Hexachlorobutadiene	U	5.00	ug/L							
Hexachlorocyclopentadiene	U	5.00	"							
Hexachloroethane	U	5.00	"							
Indeno(1,2,3-cd)pyrene	U	5.00	"							
Isophorone	U	5.00	"							
2-Methylnaphthalene	U	5.00	"							
2-Methylphenol	U	5.00	"							
4-Methylphenol	U	5.00	"							
Naphthalene	U	5.00	"							
2-Nitroaniline	U	5.00	"							
3-Nitroaniline	U	5.00	"							
4-Nitroaniline	U	5.00	"							
Nitrobenzene	U	5.00	"							
2-Nitrophenol	U	5.00	"							
4-Nitrophenol	U	20.0	"							
N-Nitrosodimethylamine	U	5.00	"							
N-Nitroso-di-n-propylamine	U	5.00	"							
N-Nitrosodiphenylamine	U	5.00	"							
Pentachlorophenol	U	5.00	"							
Phenanthrene	U	5.00	"							
Phenol	U	10.0	"							
Pyrene	U	5.00	"							
1,2,4,5-Tetrachlorobenzene	U	5.00	"							
2,3,4,6-Tetrachlorophenol	U	5.00	"							
2,4,5-Trichlorophenol	U	10.0	"							
2,4,6-Trichlorophenol	U	10.0	"							
PPH	U	0.500	"							
MCHM	U	0.500	"							
Surrogate: 2-Fluorophenol	*U*		*"*	*50.000*			*21-110*			
Surrogate: Phenol-d5	*U*		*"*	*50.000*			*39-106*			
Surrogate: Nitrobenzene-d5	*U*		*"*	*25.000*			*43-108*			
Surrogate: 2-Fluorobiphenyl	*U*		*"*	*25.000*			*43-116*			
Surrogate: 2,4,6-Tribromophenol	*U*		*"*	*50.000*			*10-123*			
Surrogate: Terphenyl-d14	*U*		*"*	*25.000*			*33-141*			

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Site Name: West Virginia Chemical Leak **Project #: DAS R34317**

QC Data
Semivolatile Organic Compounds

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BB41002 - EPA 3520C SVOC										
LCS (BB41002-BS1)				Prepared: 02/10/14 10:14			Analyzed: 02/11/14 07:47			
Acenaphthene	U	5.00	ug/L	40.000			60-132			
Acenaphthylene	U	5.00	"	40.000			53-126			
Acetophenone	U	5.00	"	40.000			30-160			
Anthracene	U	5.00	"	40.000			43-118			
Atrazine	U	5.00	"	40.000			30-160			
Benzaldehyde	U	5.00	"	40.000			30-160			
Benzo(a)anthracene	U	5.00	"	40.000			41-133			
Benzo(b)fluoranthene	U	5.00	"	40.000			42-140			
Benzo(k)fluoranthene	U	5.00	"	40.000			25-146			
Benzo(ghi)perylene	U	5.00	"	40.000			0.01-195			
Benzo(a)pyrene	U	5.00	"	40.000			31-148			
1,1-Biphenyl	U	5.00	"	40.000			30-160			
Bis(2-chloroethoxy)methane	U	5.00	"	40.000			49-165			
Bis(2-chloroethyl)ether	U	5.00	"	40.000			42-126			
Bis(2-chloroisopropyl)ether	U	5.00	"	40.000			62-139			
Bis(2-ethylhexyl)phthalate	U	5.00	"	40.000			28-137			
4-Bromophenyl phenyl ether	U	5.00	"	40.000			64-114			
Butyl benzyl phthalate	U	5.00	"	40.000			0.01-140			
Carbazole	U	5.00	"	40.000			30-160			
Caprolactam	U	10.0	"	40.000			30-160			
4-Chloroaniline	U	5.00	"	40.000			30-160			
4-Chloro-3-methylphenol	U	5.00	"	40.000			40-128			
2-Chloronaphthalene	U	5.00	"	40.000			64-114			
2-Chlorophenol	U	5.00	"	40.000			36-121			
4-Chlorophenyl phenyl ether	U	5.00	"	40.000			38-145			
Chrysene	U	5.00	"	40.000			44-140			
Dibenz(a,h)anthracene	U	5.00	"	40.000			0.01-200			
Dibenzofuran	U	5.00	"	40.000			30-160			
3,3'-Dichlorobenzidine	U	5.00	"	40.000			8-213			
Diethyl phthalate	U	5.00	"	40.000			0.01-100			
2,4-Dichlorophenol	U	5.00	"	40.000			52-122			
2,4-Dimethylphenol	U	5.00	"	40.000			41-109			
Dimethyl phthalate	U	5.00	"	40.000			0.01-100			
Di-n-butyl phthalate	U	5.00	"	40.000			8-111			
4,6-Dinitro-2-methylphenol	U	10.0	"	40.000			53-100			
2,4-Dinitrophenol	U	5.00	"	40.000			0.01-173			
2,4-Dinitrotoluene	U	5.00	"	40.000			47-127			
2,6-Dinitrotoluene	U	5.00	"	40.000			68-138			
Di-n-octyl phthalate	U	5.00	"	40.000			18-132			
Fluoranthene	U	5.00	"	40.000			42-122			
Fluorene	U	5.00	"	40.000			71-109			
Hexachlorobenzene	U	5.00	"	40.000			10-142			

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Site Name: West Virginia Chemical Leak **Project #: DAS R34317**

QC Data
Semivolatile Organic Compounds

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BB41002 - EPA 3520C SVOC										
LCS (BB41002-BS1)				Prepared: 02/10/14 10:14			Analyzed: 02/11/14 07:47			
Hexachlorobutadiene	U	5.00	ug/L	40.000			37-103			
Hexachlorocyclopentadiene	U	5.00	"	40.000			0.01-104			
Hexachloroethane	U	5.00	"	40.000			55-100			
Indeno(1,2,3-cd)pyrene	U	5.00	"	40.000			0.01-151			
Isophorone	U	5.00	"	40.000			46-181			
2-Methylnaphthalene	U	5.00	"	40.000			30-160			
2-Methylphenol	U	5.00	"	40.000			30-160			
4-Methylphenol	U	5.00	"	40.000			30-160			
Naphthalene	U	5.00	"	40.000			35-120			
2-Nitroaniline	U	5.00	"	40.000			30-160			
3-Nitroaniline	U	5.00	"	40.000			30-160			
4-Nitroaniline	U	5.00	"	40.000			30-160			
Nitrobenzene	U	5.00	"	40.000			54-158			
2-Nitrophenol	U	5.00	"	40.000			45-167			
4-Nitrophenol	U	20.0	"	40.000			13-107			
N-Nitrosodimethylamine	U	5.00	"	40.000			30-160			
N-Nitroso-di-n-propylamine	U	5.00	"	40.000			41-116			
N-Nitrosodiphenylamine	U	5.00	"	40.000			30-160			
Pentachlorophenol	U	5.00	"	40.000			9-103			
Phenanthrene	U	5.00	"	40.000			65-109			
Phenol	U	10.0	"	40.000			12-110			
Pyrene	U	5.00	"	40.000			69-100			
1,2,4,5-Tetrachlorobenzene	U	5.00	"	40.000			30-160			
2,3,4,6-Tetrachlorophenol	U	5.00	"	40.000			30-160			
2,4,5-Trichlorophenol	U	10.0	"	40.000			30-160			
2,4,6-Trichlorophenol	U	10.0	"	40.000			52-130			
PPH	U	0.500	"							
MCHM	U	0.500	"							
Surrogate: 2-Fluorophenol	*U*		*"*	*50.000*			*21-110*			
Surrogate: Phenol-d5	*U*		*"*	*50.000*			*39-106*			
Surrogate: Nitrobenzene-d5	*U*		*"*	*25.000*			*43-108*			
Surrogate: 2-Fluorobiphenyl	*U*		*"*	*25.000*			*43-116*			
Surrogate: 2,4,6-Tribromophenol	*U*		*"*	*50.000*			*10-123*			
Surrogate: Terphenyl-d14	*U*		*"*	*25.000*			*33-141*			

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Site Name: West Virginia Chemical Leak **Project #: DAS R34317**

Notes and Definitions

J	The identification of the analyte is acceptable; the reported value is an estimate.
%REC	Percent Recovery
RPD	Relative Percent Difference
U	Analyte included in the analysis, but not detected at or above the quantitation limit.

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

REPORTING PROTOCOL FOR SOLID SAMPLE RESULTS: Percent Solids (percent dry wt at 105 degrees C) determinations are routinely performed for most organic and inorganic analyses. Consequently, these samples are analyzed wet and converted to a dry weight result for reporting purposes. If metals and mercury analyses are requested, they are routinely prepared for analyses by an initial drying at 60 degrees C, homogenized prior to digestion, and are analyzed and reported on a dry weight basis. Oil-type samples are analyzed and reported on a wet weight basis for all analyses because of the nature of the sample matrix. Any exceptions to this protocol will be noted in the narrative.

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Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
	SVOCs by SW846 8270D	(Water)	J-Flags used
	SVOCs by SW846 8270D	(Water)	Result calculations based on MDL
	SVOCs by SW846 8270D	(Water)	RPD calculations based on %Recovery
1401014-01	SVOCs by SW846 8270D		Status is Analyzed
1401014-02	SVOCs by SW846 8270D		Status is Analyzed
1401014-03	SVOCs by SW846 8270D		Status is Analyzed
1401014-04	SVOCs by SW846 8270D		Status is Analyzed
1401014-06	SVOCs by SW846 8270D		Status is Analyzed
1401014-07	SVOCs by SW846 8270D		Status is Analyzed
1401014-09	SVOCs by SW846 8270D		Status is Batched
BB40301-BLK1	SVOCs by SW846 8270D	1-Pentene, 3-ethyl-2-methyl-	Blank >1 x MRL
BB40301-BLK1	SVOCs by SW846 8270D	2,3-Dimethyl-1-hexene	Blank >1 x MRL
BB40301-BLK1	SVOCs by SW846 8270D	2,3-Dimethyl-2-heptene	Blank >1 x MRL
BB40301-BLK1	SVOCs by SW846 8270D	2-Butenal, 2-methyl-	Blank >1 x MRL
BB40301-BLK1	SVOCs by SW846 8270D	2-Pentenal, (E)-	Blank >1 x MRL
BB40301-BLK1	SVOCs by SW846 8270D	3-Ethyl-4-methyl-2-pentene	Blank >1 x MRL
BB40301-BLK1	SVOCs by SW846 8270D	Cyclohexane, 1-methyl-2-propyl- (01)	Blank >1 x MRL
BB40301-BLK1	SVOCs by SW846 8270D	Cyclohexane, 1-methyl-2-propyl- (02)	Blank >1 x MRL
BB40301-BLK1	SVOCs by SW846 8270D	Cyclopentane, 1,1,3,3-tetramethyl-	Blank >1 x MRL
BB40301-BLK1	SVOCs by SW846 8270D	Cyclopentanone, 2-(1-methylpropyl)-	Blank >1 x MRL
BB40301-BLK1	SVOCs by SW846 8270D	Decane, 3,3,4-trimethyl-	Blank >1 x MRL
BB40301-BLK1	SVOCs by SW846 8270D	Ethanedioic acid, bis(3-methylbutyl) ester	Blank >1 x MRL
BB40301-BLK1	SVOCs by SW846 8270D	Ethanone, 1-(2,2-dimethylcyclopentyl)-	Blank >1 x MRL
BB40301-BLK1	SVOCs by SW846 8270D	Furan, 2,3-dihydro-4-methyl-	Blank >1 x MRL
BB40301-BLK1	SVOCs by SW846 8270D	Sulfurous acid, cyclohexylmethyl tridecyl este	Blank >1 x MRL
BB40301-BS1	SVOCs by SW846 8270D	Atrazine	Exceeds upper control limit
BB40301-BS1	SVOCs by SW846 8270D	Carbazole	Exceeds upper control limit