

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

PA Dept. of Env. Protection
Rachel Carson Off Bldg 14th Fl
PO Box 8471
Harrisburg PA 17105-8471

July 16, 2014

Project: 1-263

Submittal Date: 07/01/2014
Group Number: 1485858
SDG: PDW91
PO Number: 4000016590
Release Number: 1-263
State of Sample Origin: PA

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
MW-3S Grab Groundwater	7518032
MW-3D-LOWER Grab Groundwater	7518033
MW-3D-UPPER Grab Groundwater	7518034
MW-1D-LOWER Grab Groundwater	7518035
MW-1D-UPPER Grab Groundwater	7518036
MW-5S Grab Groundwater	7518037
MW-6S Grab Groundwater	7518038
MW-7S Grab Groundwater	7518039
MW-10D-UPPER Grab Groundwater	7518040
MW-10D-LOWER Grab Groundwater	7518041
Duplicate-1 Grab Groundwater	7518042
Rinsate-1 Grab Water	7518043
Trip-1 Water	7518044

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	Leidos	Attn: Richard L Merhar
ELECTRONIC COPY TO	PA Dept. of Env. Protection	Attn: Ann Asbury
ELECTRONIC COPY TO	PA Dept. of Env. Protection	Attn: Colin Wade

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Sample Description: MW-3S Grab Groundwater
1-263

LL Sample # WW 7518032
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 10:40 by BB

PA Dept. of Env. Protection

Submitted: 07/01/2014 15:06

Rachel Carson Off Bldg 14th Fl

Reported: 07/16/2014 14:02

PO Box 8471

Harrisburg PA 17105-8471

HFF3S SDG#: PDW91-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	N.D.	0.5	2.0	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
04678	Anthracene	120-12-7	N.D.	0.1	0.5	1
04678	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
04678	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
04678	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
04678	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
04678	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-3S Grab Groundwater
1-263

LL Sample # WW 7518032
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 10:40 by BB

PA Dept. of Env. Protection

Submitted: 07/01/2014 15:06

Rachel Carson Off Bldg 14th Fl

Reported: 07/16/2014 14:02

PO Box 8471

Harrisburg PA 17105-8471

HFF3S SDG#: PDW91-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
04678	Carbazole	86-74-8	N.D.	0.5	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.5	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
04678	Chrysene	218-01-9	N.D.	0.1	0.5	1
04678	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
04678	Dibenzofuran	132-64-9	N.D.	0.5	1	1
04678	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	1	1
04678	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1	1
04678	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	5	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	5	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	16	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	10	31	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
04678	Fluoranthene	206-44-0	0.1 J	0.1	0.5	1
04678	Fluorene	86-73-7	N.D.	0.1	0.5	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	5	16	1
04678	Hexachloroethane	67-72-1	N.D.	1	5	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
04678	Isophorone	78-59-1	N.D.	0.5	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
04678	2-Methylphenol	95-48-7	N.D.	0.5	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04678	Naphthalene	91-20-3	N.D.	0.1	0.5	1
04678	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.5	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
04678	4-Nitrophenol	100-02-7	N.D.	10	31	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-3S Grab Groundwater
1-263

LL Sample # WW 7518032
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 10:40 by BB

PA Dept. of Env. Protection

Rachel Carson Off Bldg 14th Fl

Submitted: 07/01/2014 15:06

PO Box 8471

Reported: 07/16/2014 14:02

Harrisburg PA 17105-8471

HFF3S SDG#: PDW91-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04678	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
04678	Pentachlorophenol	87-86-5	N.D.	1	5	1
04678	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
04678	Phenol	108-95-2	N.D.	0.5	1	1
04678	Pyrene	129-00-0	0.1 J	0.1	0.5	1
04678	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial.

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL	1	C141832AA	07/03/2014 00:31	Kevin A Sposito	1
00527	19.5 1,4-Dioxane 8260B	SW-846 8260B SIM	1	E141831AA	07/02/2014 18:14	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141831AA	07/02/2014 18:14	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C141832AA	07/03/2014 00:31	Kevin A Sposito	1
04678	8.37 TCL	SW-846 8270C	1	14183WAC026	07/05/2014 01:15	Chad A Moline	1
	Semivolatiles/Waters						
00813	BNA Water Extraction	SW-846 3510C	1	14183WAC026	07/02/2014 16:00	Seth A Farrier	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-3D-LOWER Grab Groundwater
1-263

LL Sample # WW 7518033
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 11:05 by BB

PA Dept. of Env. Protection

Submitted: 07/01/2014 15:06

Rachel Carson Off Bldg 14th Fl

Reported: 07/16/2014 14:02

PO Box 8471

Harrisburg PA 17105-8471

3DLOW SDG#: PDW91-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	0.7	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	N.D.	0.5	2.0	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
04678	Anthracene	120-12-7	N.D.	0.1	0.5	1
04678	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
04678	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
04678	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
04678	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
04678	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-3D-LOWER Grab Groundwater
1-263

LL Sample # WW 7518033
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 11:05 by BB

PA Dept. of Env. Protection

Submitted: 07/01/2014 15:06

Rachel Carson Off Bldg 14th Fl

Reported: 07/16/2014 14:02

PO Box 8471

Harrisburg PA 17105-8471

3DLOW SDG#: PDW91-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
04678	Carbazole	86-74-8	N.D.	0.5	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.5	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
04678	Chrysene	218-01-9	N.D.	0.1	0.5	1
04678	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
04678	Dibenzofuran	132-64-9	N.D.	0.5	1	1
04678	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	1	1
04678	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1	1
04678	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	5	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	5	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	10	30	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
04678	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
04678	Fluorene	86-73-7	N.D.	0.1	0.5	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
04678	Hexachloroethane	67-72-1	N.D.	1	5	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
04678	Isophorone	78-59-1	N.D.	0.5	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
04678	2-Methylphenol	95-48-7	N.D.	0.5	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.5	1	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04678	Naphthalene	91-20-3	N.D.	0.1	0.5	1
04678	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.5	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
04678	4-Nitrophenol	100-02-7	N.D.	10	30	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-3D-LOWER Grab Groundwater
1-263

LL Sample # WW 7518033
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 11:05 by BB

PA Dept. of Env. Protection

Submitted: 07/01/2014 15:06

Rachel Carson Off Bldg 14th Fl

Reported: 07/16/2014 14:02

PO Box 8471

Harrisburg PA 17105-8471

3DLOW SDG#: PDW91-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04678	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
04678	Pentachlorophenol	87-86-5	N.D.	1	5	1
04678	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
04678	Phenol	108-95-2	N.D.	0.5	1	1
04678	Pyrene	129-00-0	N.D.	0.1	0.5	1
04678	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial.

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL	1	C141832AA	07/03/2014 00:54	Kevin A Sposito	1
00527	19.5 1,4-Dioxane 8260B	SW-846 8260B SIM	1	E141831AA	07/02/2014 18:35	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141831AA	07/02/2014 18:35	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C141832AA	07/03/2014 00:54	Kevin A Sposito	1
04678	8.37 TCL	SW-846 8270C	1	14183WAC026	07/05/2014 01:43	Chad A Moline	1
	Semivolatiles/Waters						
00813	BNA Water Extraction	SW-846 3510C	1	14183WAC026	07/02/2014 16:00	Seth A Farrier	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-3D-UPPER Grab Groundwater
1-263

LL Sample # WW 7518034
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 12:15 by BB

PA Dept. of Env. Protection

Submitted: 07/01/2014 15:06

Rachel Carson Off Bldg 14th Fl

Reported: 07/16/2014 14:02

PO Box 8471

Harrisburg PA 17105-8471

3DUPP SDG#: PDW91-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	N.D.	0.5	2.0	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
04678	Anthracene	120-12-7	N.D.	0.1	0.5	1
04678	Benzo(a)anthracene	56-55-3	0.2 J	0.1	0.5	1
04678	Benzo(a)pyrene	50-32-8	0.3 J	0.1	0.5	1
04678	Benzo(b)fluoranthene	205-99-2	0.3 J	0.1	0.5	1
04678	Benzo(g,h,i)perylene	191-24-2	0.2 J	0.1	0.5	1
04678	Benzo(k)fluoranthene	207-08-9	0.2 J	0.1	0.5	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-3D-UPPER Grab Groundwater
1-263

LL Sample # WW 7518034

LL Group # 1485858

Account # 06195

Project Name: 1-263

Collected: 06/30/2014 12:15 by BB

PA Dept. of Env. Protection

Rachel Carson Off Bldg 14th Fl

Submitted: 07/01/2014 15:06

PO Box 8471

Reported: 07/16/2014 14:02

Harrisburg PA 17105-8471

3DUPP SDG#: PDW91-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
04678	Carbazole	86-74-8	N.D.	0.5	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.5	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
04678	Chrysene	218-01-9	0.2 J	0.1	0.5	1
04678	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
04678	Dibenzofuran	132-64-9	N.D.	0.5	1	1
04678	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	1	1
04678	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1	1
04678	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	5	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	5	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	10	30	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
04678	Fluoranthene	206-44-0	0.4 J	0.1	0.5	1
04678	Fluorene	86-73-7	N.D.	0.1	0.5	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
04678	Hexachloroethane	67-72-1	N.D.	1	5	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	0.2 J	0.1	0.5	1
04678	Isophorone	78-59-1	N.D.	0.5	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
04678	2-Methylphenol	95-48-7	N.D.	0.5	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.5	1	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04678	Naphthalene	91-20-3	N.D.	0.1	0.5	1
04678	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.5	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
04678	4-Nitrophenol	100-02-7	N.D.	10	30	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-3D-UPPER Grab Groundwater
1-263

LL Sample # WW 7518034
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 12:15 by BB

PA Dept. of Env. Protection

Rachel Carson Off Bldg 14th Fl

Submitted: 07/01/2014 15:06

PO Box 8471

Reported: 07/16/2014 14:02

Harrisburg PA 17105-8471

3DUPP SDG#: PDW91-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04678	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
04678	Pentachlorophenol	87-86-5	N.D.	1	5	1
04678	Phenanthrene	85-01-8	0.1 J	0.1	0.5	1
04678	Phenol	108-95-2	N.D.	0.5	1	1
04678	Pyrene	129-00-0	0.4 J	0.1	0.5	1
04678	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial.

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL purge	1	C141832AA	07/03/2014 01:16	Kevin A Sposito	1
00527	19.5 1,4-Dioxane 8260B SIM	SW-846 8260B SIM	1	E141831AA	07/02/2014 18:56	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141831AA	07/02/2014 18:56	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C141832AA	07/03/2014 01:16	Kevin A Sposito	1
04678	8.37 TCL Semivolatiles/Waters	SW-846 8270C	1	14183WAC026	07/05/2014 02:11	Chad A Moline	1
00813	BNA Water Extraction	SW-846 3510C	1	14183WAC026	07/02/2014 16:00	Seth A Farrier	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-1D-LOWER Grab Groundwater
1-263

LL Sample # WW 7518035
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 13:55 by BB

PA Dept. of Env. Protection

Submitted: 07/01/2014 15:06

Rachel Carson Off Bldg 14th Fl

Reported: 07/16/2014 14:02

PO Box 8471

Harrisburg PA 17105-8471

1DLOW SDG#: PDW91-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 J	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	0.1 J	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.1 J	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.7 J	0.5	2.0	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
04678	Anthracene	120-12-7	N.D.	0.1	0.5	1
04678	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
04678	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
04678	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
04678	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
04678	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-1D-LOWER Grab Groundwater
1-263

LL Sample # WW 7518035
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 13:55 by BB

PA Dept. of Env. Protection

Submitted: 07/01/2014 15:06

Rachel Carson Off Bldg 14th Fl

Reported: 07/16/2014 14:02

PO Box 8471

Harrisburg PA 17105-8471

1DLOW SDG#: PDW91-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
04678	Carbazole	86-74-8	N.D.	0.5	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.5	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
04678	Chrysene	218-01-9	N.D.	0.1	0.5	1
04678	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
04678	Dibenzofuran	132-64-9	N.D.	0.5	1	1
04678	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	1	1
04678	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1	1
04678	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	5	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	5	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	16	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	11	33	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
04678	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
04678	Fluorene	86-73-7	N.D.	0.1	0.5	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	5	16	1
04678	Hexachloroethane	67-72-1	N.D.	1	5	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
04678	Isophorone	78-59-1	N.D.	0.5	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
04678	2-Methylphenol	95-48-7	N.D.	0.5	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04678	Naphthalene	91-20-3	N.D.	0.1	0.5	1
04678	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.5	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
04678	4-Nitrophenol	100-02-7	N.D.	11	33	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-1D-LOWER Grab Groundwater
1-263

LL Sample # WW 7518035
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 13:55 by BB

PA Dept. of Env. Protection

Submitted: 07/01/2014 15:06

Rachel Carson Off Bldg 14th Fl

Reported: 07/16/2014 14:02

PO Box 8471

Harrisburg PA 17105-8471

1DLOW SDG#: PDW91-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04678	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
04678	Pentachlorophenol	87-86-5	N.D.	1	5	1
04678	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
04678	Phenol	108-95-2	N.D.	0.5	1	1
04678	Pyrene	129-00-0	N.D.	0.1	0.5	1
04678	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial.

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs	8260B 25mL SW-846	1	C141832AA	07/03/2014 01:39	Kevin A Sposito	1
00527	19.5 1,4-Dioxane	8260B SIM SW-846	1	E141831AA	07/02/2014 19:17	Sara E Johnson	1
01163	GC/MS VOA Water Prep	5030B SW-846	1	E141831AA	07/02/2014 19:17	Sara E Johnson	1
01163	GC/MS VOA Water Prep	5030B SW-846	2	C141832AA	07/03/2014 01:39	Kevin A Sposito	1
04678	8.37 TCL	8270C SW-846	1	14183WAC026	07/05/2014 02:40	Chad A Moline	1
	Semivolatiles/Waters						
00813	BNA Water Extraction	3510C SW-846	1	14183WAC026	07/02/2014 16:00	Seth A Farrier	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-1D-UPPER Grab Groundwater
1-263

LL Sample # WW 7518036
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 15:00 by BB

PA Dept. of Env. Protection

Submitted: 07/01/2014 15:06

Rachel Carson Off Bldg 14th Fl

Reported: 07/16/2014 14:02

PO Box 8471

Harrisburg PA 17105-8471

1DUPP SDG#: PDW91-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.8 J	0.5	2.0	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
04678	Anthracene	120-12-7	N.D.	0.1	0.5	1
04678	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
04678	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
04678	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
04678	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
04678	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-1D-UPPER Grab Groundwater
1-263

LL Sample # WW 7518036
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 15:00 by BB

PA Dept. of Env. Protection

Submitted: 07/01/2014 15:06

Rachel Carson Off Bldg 14th Fl

Reported: 07/16/2014 14:02

PO Box 8471

Harrisburg PA 17105-8471

1DUPP SDG#: PDW91-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
04678	Carbazole	86-74-8	N.D.	0.5	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.5	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
04678	Chrysene	218-01-9	N.D.	0.1	0.5	1
04678	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
04678	Dibenzofuran	132-64-9	N.D.	0.5	1	1
04678	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	1	1
04678	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1	1
04678	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	5	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	5	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	10	31	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
04678	Fluoranthene	206-44-0	0.2 J	0.1	0.5	1
04678	Fluorene	86-73-7	N.D.	0.1	0.5	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
04678	Hexachloroethane	67-72-1	N.D.	1	5	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
04678	Isophorone	78-59-1	N.D.	0.5	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
04678	2-Methylphenol	95-48-7	N.D.	0.5	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04678	Naphthalene	91-20-3	N.D.	0.1	0.5	1
04678	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.5	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
04678	4-Nitrophenol	100-02-7	N.D.	10	31	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-1D-UPPER Grab Groundwater
1-263

LL Sample # WW 7518036
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 15:00 by BB

PA Dept. of Env. Protection

Submitted: 07/01/2014 15:06

Rachel Carson Off Bldg 14th Fl

Reported: 07/16/2014 14:02

PO Box 8471

Harrisburg PA 17105-8471

1DUPP SDG#: PDW91-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04678	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
04678	Pentachlorophenol	87-86-5	N.D.	1	5	1
04678	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
04678	Phenol	108-95-2	N.D.	0.5	1	1
04678	Pyrene	129-00-0	0.2 J	0.1	0.5	1
04678	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial.					

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL purge	1	C141832AA	07/03/2014 02:02	Kevin A Sposito	1
00527	19.5 1,4-Dioxane 8260B SIM	SW-846 8260B SIM	1	E141831AA	07/02/2014 19:37	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141831AA	07/02/2014 19:37	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C141832AA	07/03/2014 02:02	Kevin A Sposito	1
04678	8.37 TCL Semivolatiles/Waters	SW-846 8270C	1	14183WAC026	07/05/2014 03:08	Chad A Moline	1
00813	BNA Water Extraction	SW-846 3510C	1	14183WAC026	07/02/2014 16:00	Seth A Farrier	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-5S Grab Groundwater
1-263

LL Sample # WW 7518037
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 14:35 by BB

PA Dept. of Env. Protection

Submitted: 07/01/2014 15:06

Rachel Carson Off Bldg 14th Fl

Reported: 07/16/2014 14:02

PO Box 8471

Harrisburg PA 17105-8471

HFF5S SDG#: PDW91-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	N.D.	0.5	2.0	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
04678	Anthracene	120-12-7	N.D.	0.1	0.5	1
04678	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
04678	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
04678	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
04678	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
04678	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-5S Grab Groundwater
1-263

LL Sample # WW 7518037
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 14:35 by BB

PA Dept. of Env. Protection

Submitted: 07/01/2014 15:06

Rachel Carson Off Bldg 14th Fl

Reported: 07/16/2014 14:02

PO Box 8471

Harrisburg PA 17105-8471

HFF5S SDG#: PDW91-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
04678	Carbazole	86-74-8	N.D.	0.5	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.5	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
04678	Chrysene	218-01-9	N.D.	0.1	0.5	1
04678	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
04678	Dibenzofuran	132-64-9	N.D.	0.5	1	1
04678	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	1	1
04678	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1	1
04678	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	5	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	5	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	16	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	10	31	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
04678	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
04678	Fluorene	86-73-7	N.D.	0.1	0.5	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	5	16	1
04678	Hexachloroethane	67-72-1	N.D.	1	5	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
04678	Isophorone	78-59-1	N.D.	0.5	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
04678	2-Methylphenol	95-48-7	N.D.	0.5	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04678	Naphthalene	91-20-3	N.D.	0.1	0.5	1
04678	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.5	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
04678	4-Nitrophenol	100-02-7	N.D.	10	31	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-5S Grab Groundwater
1-263

LL Sample # WW 7518037
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 14:35 by BB

PA Dept. of Env. Protection

Submitted: 07/01/2014 15:06

Rachel Carson Off Bldg 14th Fl

Reported: 07/16/2014 14:02

PO Box 8471

Harrisburg PA 17105-8471

HFF5S SDG#: PDW91-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04678	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
04678	Pentachlorophenol	87-86-5	N.D.	1	5	1
04678	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
04678	Phenol	108-95-2	N.D.	0.5	1	1
04678	Pyrene	129-00-0	N.D.	0.1	0.5	1
04678	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial.

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL purge	1	C141832AA	07/03/2014 02:25	Kevin A Sposito	1
00527	19.5 1,4-Dioxane 8260B SIM	SW-846 8260B SIM	1	E141831AA	07/02/2014 19:58	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141831AA	07/02/2014 19:58	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C141832AA	07/03/2014 02:25	Kevin A Sposito	1
04678	8.37 TCL Semivolatiles/Waters	SW-846 8270C	1	14183WAC026	07/05/2014 03:36	Chad A Moline	1
00813	BNA Water Extraction	SW-846 3510C	1	14183WAC026	07/02/2014 16:00	Seth A Farrier	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-6S Grab Groundwater
1-263

LL Sample # WW 7518038
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 13:15 by BB

PA Dept. of Env. Protection

Submitted: 07/01/2014 15:06

Rachel Carson Off Bldg 14th Fl

Reported: 07/16/2014 14:02

PO Box 8471

Harrisburg PA 17105-8471

HFF6S SDG#: PDW91-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	N.D.	0.5	2.0	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	0.6	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.6	1
04678	Anthracene	120-12-7	N.D.	0.1	0.6	1
04678	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.6	1
04678	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.6	1
04678	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.6	1
04678	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.6	1
04678	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.6	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.6	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	6	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-6S Grab Groundwater
1-263

LL Sample # WW 7518038
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 13:15 by BB

PA Dept. of Env. Protection

Submitted: 07/01/2014 15:06

Rachel Carson Off Bldg 14th Fl

Reported: 07/16/2014 14:02

PO Box 8471

Harrisburg PA 17105-8471

HFF6S SDG#: PDW91-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	6	1
04678	Carbazole	86-74-8	N.D.	0.6	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.6	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.6	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.6	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.6	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.5	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.6	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.6	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.6	1	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
04678	Chrysene	218-01-9	N.D.	0.1	0.6	1
04678	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.6	1
04678	Dibenzofuran	132-64-9	N.D.	0.6	1	1
04678	1,2-Dichlorobenzene	95-50-1	N.D.	0.6	1	1
04678	1,3-Dichlorobenzene	541-73-1	N.D.	0.6	1	1
04678	1,4-Dichlorobenzene	106-46-7	N.D.	0.6	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	6	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.6	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	6	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.6	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	6	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	6	17	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	12	35	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	6	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.6	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	6	1
04678	Fluoranthene	206-44-0	N.D.	0.1	0.6	1
04678	Fluorene	86-73-7	N.D.	0.1	0.6	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.6	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.6	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	6	17	1
04678	Hexachloroethane	67-72-1	N.D.	1	6	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.6	1
04678	Isophorone	78-59-1	N.D.	0.6	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.6	1
04678	2-Methylphenol	95-48-7	N.D.	0.6	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.6	1	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04678	Naphthalene	91-20-3	N.D.	0.1	0.6	1
04678	2-Nitroaniline	88-74-4	N.D.	0.6	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.6	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.6	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.6	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.6	1	1
04678	4-Nitrophenol	100-02-7	N.D.	12	35	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-6S Grab Groundwater
1-263

LL Sample # WW 7518038
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 13:15 by BB

PA Dept. of Env. Protection

Rachel Carson Off Bldg 14th Fl

Submitted: 07/01/2014 15:06

PO Box 8471

Reported: 07/16/2014 14:02

Harrisburg PA 17105-8471

HFF6S SDG#: PDW91-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.6	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.6	1	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04678	Di-n-octylphthalate	117-84-0	N.D.	2	6	1
04678	Pentachlorophenol	87-86-5	N.D.	1	6	1
04678	Phenanthrene	85-01-8	N.D.	0.1	0.6	1
04678	Phenol	108-95-2	N.D.	0.6	1	1
04678	Pyrene	129-00-0	N.D.	0.1	0.6	1
04678	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.6	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.6	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.6	1	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial.

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL purge	1	C141832AA	07/03/2014 02:47	Kevin A Sposito	1
00527	19.5 1,4-Dioxane 8260B SIM	SW-846 8260B SIM	1	E141831AA	07/02/2014 20:19	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141831AA	07/02/2014 20:19	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C141832AA	07/03/2014 02:47	Kevin A Sposito	1
04678	8.37 TCL Semivolatiles/Waters	SW-846 8270C	1	14183WAC026	07/05/2014 04:04	Chad A Moline	1
00813	BNA Water Extraction	SW-846 3510C	1	14183WAC026	07/02/2014 16:00	Seth A Farrier	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-7S Grab Groundwater
1-263

LL Sample # WW 7518039
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 12:00 by BB

PA Dept. of Env. Protection

Submitted: 07/01/2014 15:06

Rachel Carson Off Bldg 14th Fl

Reported: 07/16/2014 14:02

PO Box 8471

Harrisburg PA 17105-8471

HFF7S SDG#: PDW91-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	N.D.	0.5	2.0	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	0.6	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.6	1
04678	Anthracene	120-12-7	N.D.	0.1	0.6	1
04678	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.6	1
04678	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.6	1
04678	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.6	1
04678	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.6	1
04678	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.6	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.6	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	6	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-7S Grab Groundwater
1-263

LL Sample # WW 7518039
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 12:00 by BB

PA Dept. of Env. Protection

Submitted: 07/01/2014 15:06

Rachel Carson Off Bldg 14th Fl

Reported: 07/16/2014 14:02

PO Box 8471

Harrisburg PA 17105-8471

HFF7S SDG#: PDW91-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	6	1
04678	Carbazole	86-74-8	N.D.	0.6	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.6	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.6	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.6	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.6	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.5	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.6	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.6	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.6	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
04678	Chrysene	218-01-9	N.D.	0.1	0.6	1
04678	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.6	1
04678	Dibenzofuran	132-64-9	N.D.	0.6	1	1
04678	1,2-Dichlorobenzene	95-50-1	N.D.	0.6	1	1
04678	1,3-Dichlorobenzene	541-73-1	N.D.	0.6	1	1
04678	1,4-Dichlorobenzene	106-46-7	N.D.	0.6	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	6	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.6	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	6	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.6	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	6	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	6	17	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	11	34	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	6	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.6	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	6	1
04678	Fluoranthene	206-44-0	N.D.	0.1	0.6	1
04678	Fluorene	86-73-7	N.D.	0.1	0.6	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.6	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.6	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	6	17	1
04678	Hexachloroethane	67-72-1	N.D.	1	6	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.6	1
04678	Isophorone	78-59-1	N.D.	0.6	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.6	1
04678	2-Methylphenol	95-48-7	N.D.	0.6	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.6	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04678	Naphthalene	91-20-3	N.D.	0.1	0.6	1
04678	2-Nitroaniline	88-74-4	N.D.	0.6	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.6	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.6	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.6	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.6	1	1
04678	4-Nitrophenol	100-02-7	N.D.	11	34	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-7S Grab Groundwater
1-263

LL Sample # WW 7518039
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 12:00 by BB

PA Dept. of Env. Protection

Rachel Carson Off Bldg 14th Fl

Submitted: 07/01/2014 15:06

PO Box 8471

Reported: 07/16/2014 14:02

Harrisburg PA 17105-8471

HFF7S SDG#: PDW91-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.6	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.6	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04678	Di-n-octylphthalate	117-84-0	N.D.	2	6	1
04678	Pentachlorophenol	87-86-5	N.D.	1	6	1
04678	Phenanthrene	85-01-8	N.D.	0.1	0.6	1
04678	Phenol	108-95-2	N.D.	0.6	1	1
04678	Pyrene	129-00-0	N.D.	0.1	0.6	1
04678	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.6	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.6	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.6	1	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial.

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL	1	C141832AA	07/03/2014 03:10	Kevin A Sposito	1
00527	19.5 1,4-Dioxane 8260B	SW-846 8260B SIM	1	E141831AA	07/02/2014 20:40	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141831AA	07/02/2014 20:40	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C141832AA	07/03/2014 03:10	Kevin A Sposito	1
04678	8.37 TCL	SW-846 8270C	1	14183WAC026	07/05/2014 04:33	Chad A Moline	1
	Semivolatiles/Waters						
00813	BNA Water Extraction	SW-846 3510C	1	14183WAC026	07/02/2014 16:00	Seth A Farrier	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-10D-UPPER Grab Groundwater
1-263

LL Sample # WW 7518040
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 15:20 by BB

PA Dept. of Env. Protection

Submitted: 07/01/2014 15:06

Rachel Carson Off Bldg 14th Fl

Reported: 07/16/2014 14:02

PO Box 8471

Harrisburg PA 17105-8471

10DUP SDG#: PDW91-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	N.D.	0.5	2.0	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
04678	Anthracene	120-12-7	N.D.	0.1	0.5	1
04678	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
04678	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
04678	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
04678	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
04678	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-10D-UPPER Grab Groundwater
1-263

LL Sample # WW 7518040
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 15:20 by BB

PA Dept. of Env. Protection

Submitted: 07/01/2014 15:06

Rachel Carson Off Bldg 14th Fl

Reported: 07/16/2014 14:02

PO Box 8471

Harrisburg PA 17105-8471

10DUP SDG#: PDW91-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
04678	Carbazole	86-74-8	N.D.	0.5	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.5	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
04678	Chrysene	218-01-9	N.D.	0.1	0.5	1
04678	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
04678	Dibenzofuran	132-64-9	N.D.	0.5	1	1
04678	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	1	1
04678	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1	1
04678	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	5	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	5	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	10	31	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
04678	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
04678	Fluorene	86-73-7	N.D.	0.1	0.5	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
04678	Hexachloroethane	67-72-1	N.D.	1	5	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
04678	Isophorone	78-59-1	N.D.	0.5	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
04678	2-Methylphenol	95-48-7	N.D.	0.5	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04678	Naphthalene	91-20-3	N.D.	0.1	0.5	1
04678	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.5	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
04678	4-Nitrophenol	100-02-7	N.D.	10	31	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-10D-UPPER Grab Groundwater
1-263

LL Sample # WW 7518040
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 15:20 by BB

PA Dept. of Env. Protection

Rachel Carson Off Bldg 14th Fl

Submitted: 07/01/2014 15:06

PO Box 8471

Reported: 07/16/2014 14:02

Harrisburg PA 17105-8471

10DUP SDG#: PDW91-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04678	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
04678	Pentachlorophenol	87-86-5	N.D.	1	5	1
04678	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
04678	Phenol	108-95-2	N.D.	0.5	1	1
04678	Pyrene	129-00-0	N.D.	0.1	0.5	1
04678	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1
	The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial.					
Metals Dissolved	SW-846 6010B	mg/l	mg/l	mg/l		
01743	Aluminum	7429-90-5	N.D.	0.0674	0.200	1
07044	Antimony	7440-36-0	N.D.	0.0051	0.0200	1
07035	Arsenic	7440-38-2	N.D.	0.0072	0.0200	1
07046	Barium	7440-39-3	0.0118	0.00033	0.0050	1
07047	Beryllium	7440-41-7	N.D.	0.00067	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00033	0.0050	1
01750	Calcium	7440-70-2	68.4	0.0334	0.200	1
07051	Chromium	7440-47-3	0.0013 J	0.0013	0.0150	1
07052	Cobalt	7440-48-4	N.D.	0.0010	0.0050	1
07053	Copper	7440-50-8	N.D.	0.0028	0.0100	1
01754	Iron	7439-89-6	N.D.	0.0334	0.200	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	18.0	0.0167	0.100	1
07058	Manganese	7439-96-5	0.0023 J	0.00083	0.0050	1
07061	Nickel	7440-02-0	N.D.	0.0016	0.0100	1
01762	Potassium	7440-09-7	3.55	0.133	0.500	1
07036	Selenium	7782-49-2	N.D.	0.0048	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0018	0.0050	1
01767	Sodium	7440-23-5	20.1	0.167	1.00	1
07022	Thallium	7440-28-0	N.D.	0.0051	0.0300	1
07071	Vanadium	7440-62-2	0.0022 J	0.0019	0.0050	1
07072	Zinc	7440-66-6	0.0022 J	0.0020	0.0200	1
	SW-846 7470A	mg/l	mg/l	mg/l		
00259	Mercury Water	7439-97-6	N.D.	0.000060	0.00020	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-10D-UPPER Grab Groundwater
1-263

LL Sample # WW 7518040
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 15:20 by BB

PA Dept. of Env. Protection

Submitted: 07/01/2014 15:06

Rachel Carson Off Bldg 14th Fl

Reported: 07/16/2014 14:02

PO Box 8471

Harrisburg PA 17105-8471

10DUP SDG#: PDW91-09

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.
This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL	1	C141832AA	07/03/2014 03:33	Kevin A Sposito	1
00527	19.5 1,4-Dioxane 8260B SIM	SW-846 8260B SIM	1	E141831AA	07/02/2014 21:00	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141831AA	07/02/2014 21:00	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C141832AA	07/03/2014 03:33	Kevin A Sposito	1
04678	8.37 TCL Semivolatiles/Waters	SW-846 8270C	1	14183WAC026	07/06/2014 22:42	Brian K Graham	1
00813	BNA Water Extraction	SW-846 3510C	1	14183WAC026	07/02/2014 16:00	Seth A Farrier	1
01743	Aluminum	SW-846 6010B	1	141831848001	07/08/2014 01:26	Tara L Snyder	1
07044	Antimony	SW-846 6010B	1	141831848001	07/08/2014 01:26	Tara L Snyder	1
07035	Arsenic	SW-846 6010B	1	141831848001	07/08/2014 01:26	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	141831848001	07/08/2014 01:26	Tara L Snyder	1
07047	Beryllium	SW-846 6010B	1	141831848001	07/08/2014 01:26	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	141831848001	07/08/2014 01:26	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	141831848001	07/08/2014 01:26	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	141831848001	07/08/2014 01:26	Tara L Snyder	1
07052	Cobalt	SW-846 6010B	1	141831848001	07/08/2014 01:26	Tara L Snyder	1
07053	Copper	SW-846 6010B	1	141831848001	07/08/2014 01:26	Tara L Snyder	1
01754	Iron	SW-846 6010B	1	141831848001	07/08/2014 01:26	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	141831848001	07/08/2014 01:26	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	141831848001	07/08/2014 01:26	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	141831848001	07/08/2014 01:26	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	141831848001	07/08/2014 01:26	Tara L Snyder	1
01762	Potassium	SW-846 6010B	1	141831848001	07/08/2014 01:26	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	141831848001	07/08/2014 01:26	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	141831848001	07/08/2014 01:26	Tara L Snyder	1
01767	Sodium	SW-846 6010B	1	141831848001	07/08/2014 01:26	Tara L Snyder	1
07022	Thallium	SW-846 6010B	1	141831848001	07/08/2014 01:26	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	141831848001	07/08/2014 01:26	Tara L Snyder	1
07072	Zinc	SW-846 6010B	1	141831848001	07/08/2014 01:26	Tara L Snyder	1
00259	Mercury Water	SW-846 7470A	1	141955713004	07/16/2014 07:38	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	141831848001	07/07/2014 10:27	Micaela L Dishong	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	141835713005	07/08/2014 09:23	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	2	141915713002	07/11/2014 09:34	Micaela L Dishong	1
05713	WW SW846 Hg Digest	SW-846 7470A	3	141955713004	07/15/2014 09:08	James L Mertz	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-10D-LOWER Grab Groundwater
1-263

LL Sample # WW 7518041
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 12:00 by BB

PA Dept. of Env. Protection

Submitted: 07/01/2014 15:06

Rachel Carson Off Bldg 14th Fl

Reported: 07/16/2014 14:02

PO Box 8471

Harrisburg PA 17105-8471

10DLO SDG#: PDW91-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	N.D.	0.5	2.0	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
04678	Anthracene	120-12-7	N.D.	0.1	0.5	1
04678	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
04678	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
04678	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
04678	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
04678	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-10D-LOWER Grab Groundwater
1-263

LL Sample # WW 7518041
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 12:00 by BB

PA Dept. of Env. Protection

Submitted: 07/01/2014 15:06

Rachel Carson Off Bldg 14th Fl

Reported: 07/16/2014 14:02

PO Box 8471

Harrisburg PA 17105-8471

10DLO SDG#: PDW91-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
04678	Carbazole	86-74-8	N.D.	0.5	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.5	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
04678	Chrysene	218-01-9	N.D.	0.1	0.5	1
04678	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
04678	Dibenzofuran	132-64-9	N.D.	0.5	1	1
04678	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	1	1
04678	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1	1
04678	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	5	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	5	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	10	30	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
04678	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
04678	Fluorene	86-73-7	N.D.	0.1	0.5	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
04678	Hexachloroethane	67-72-1	N.D.	1	5	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
04678	Isophorone	78-59-1	N.D.	0.5	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
04678	2-Methylphenol	95-48-7	N.D.	0.5	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04678	Naphthalene	91-20-3	N.D.	0.1	0.5	1
04678	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.5	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
04678	4-Nitrophenol	100-02-7	N.D.	10	30	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-10D-LOWER Grab Groundwater
1-263

LL Sample # WW 7518041
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 12:00 by BB

PA Dept. of Env. Protection

Rachel Carson Off Bldg 14th Fl

Submitted: 07/01/2014 15:06

PO Box 8471

Reported: 07/16/2014 14:02

Harrisburg PA 17105-8471

10DLO SDG#: PDW91-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04678	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
04678	Pentachlorophenol	87-86-5	N.D.	1	5	1
04678	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
04678	Phenol	108-95-2	N.D.	0.5	1	1
04678	Pyrene	129-00-0	N.D.	0.1	0.5	1
04678	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1
The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial.						
Metals Dissolved	SW-846 6010B	mg/l	mg/l	mg/l		
01743	Aluminum	7429-90-5	N.D.	0.0674	0.200	1
07044	Antimony	7440-36-0	N.D.	0.0051	0.0200	1
07035	Arsenic	7440-38-2	0.0098 J	0.0072	0.0200	1
07046	Barium	7440-39-3	0.0427	0.00033	0.0050	1
07047	Beryllium	7440-41-7	N.D.	0.00067	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00033	0.0050	1
01750	Calcium	7440-70-2	65.3	0.0334	0.200	1
07051	Chromium	7440-47-3	0.0017 J	0.0013	0.0150	1
07052	Cobalt	7440-48-4	N.D.	0.0010	0.0050	1
07053	Copper	7440-50-8	N.D.	0.0028	0.0100	1
01754	Iron	7439-89-6	N.D.	0.0334	0.200	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	18.5	0.0167	0.100	1
07058	Manganese	7439-96-5	0.0050 J	0.00083	0.0050	1
07061	Nickel	7440-02-0	N.D.	0.0016	0.0100	1
01762	Potassium	7440-09-7	2.96	0.133	0.500	1
07036	Selenium	7782-49-2	N.D.	0.0048	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0018	0.0050	1
01767	Sodium	7440-23-5	20.6	0.167	1.00	1
07022	Thallium	7440-28-0	N.D.	0.0051	0.0300	1
07071	Vanadium	7440-62-2	0.0029 J	0.0019	0.0050	1
07072	Zinc	7440-66-6	0.0043 J	0.0020	0.0200	1
	SW-846 7470A	mg/l	mg/l	mg/l		
00259	Mercury Water	7439-97-6	N.D.	0.000060	0.00020	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-10D-LOWER Grab Groundwater
1-263

LL Sample # WW 7518041
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 12:00 by BB

PA Dept. of Env. Protection

Submitted: 07/01/2014 15:06

Rachel Carson Off Bldg 14th Fl

Reported: 07/16/2014 14:02

PO Box 8471

Harrisburg PA 17105-8471

10DLO SDG#: PDW91-10

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.
This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL	1	C141832AA	07/03/2014 03:56	Kevin A Sposito	1
00527	19.5 1,4-Dioxane 8260B SIM	SW-846 8260B SIM	1	E141831AA	07/02/2014 21:21	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141831AA	07/02/2014 21:21	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C141832AA	07/03/2014 03:56	Kevin A Sposito	1
04678	8.37 TCL Semivolatiles/Waters	SW-846 8270C	1	14183WAC026	07/06/2014 23:11	Brian K Graham	1
00813	BNA Water Extraction	SW-846 3510C	1	14183WAC026	07/02/2014 16:00	Seth A Farrier	1
01743	Aluminum	SW-846 6010B	1	141831848001	07/08/2014 01:30	Tara L Snyder	1
07044	Antimony	SW-846 6010B	1	141831848001	07/08/2014 01:30	Tara L Snyder	1
07035	Arsenic	SW-846 6010B	1	141831848001	07/08/2014 01:30	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	141831848001	07/08/2014 01:30	Tara L Snyder	1
07047	Beryllium	SW-846 6010B	1	141831848001	07/08/2014 01:30	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	141831848001	07/08/2014 01:30	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	141831848001	07/08/2014 01:30	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	141831848001	07/08/2014 01:30	Tara L Snyder	1
07052	Cobalt	SW-846 6010B	1	141831848001	07/08/2014 01:30	Tara L Snyder	1
07053	Copper	SW-846 6010B	1	141831848001	07/08/2014 01:30	Tara L Snyder	1
01754	Iron	SW-846 6010B	1	141831848001	07/08/2014 01:30	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	141831848001	07/08/2014 01:30	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	141831848001	07/08/2014 01:30	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	141831848001	07/08/2014 01:30	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	141831848001	07/08/2014 01:30	Tara L Snyder	1
01762	Potassium	SW-846 6010B	1	141831848001	07/08/2014 01:30	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	141831848001	07/08/2014 01:30	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	141831848001	07/08/2014 01:30	Tara L Snyder	1
01767	Sodium	SW-846 6010B	1	141831848001	07/08/2014 01:30	Tara L Snyder	1
07022	Thallium	SW-846 6010B	1	141831848001	07/08/2014 01:30	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	141831848001	07/08/2014 01:30	Tara L Snyder	1
07072	Zinc	SW-846 6010B	1	141831848001	07/08/2014 01:30	Tara L Snyder	1
00259	Mercury Water	SW-846 7470A	1	141955713004	07/16/2014 07:44	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	141831848001	07/07/2014 10:27	Micaela L Dishong	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	141835713005	07/08/2014 09:23	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	2	141915713002	07/11/2014 09:34	Micaela L Dishong	1
05713	WW SW846 Hg Digest	SW-846 7470A	3	141955713004	07/15/2014 09:08	James L Mertz	1

*=This limit was used in the evaluation of the final result

Sample Description: Duplicate-1 Grab Groundwater
1-263

LL Sample # WW 7518042
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 18:00 by BB

PA Dept. of Env. Protection

Submitted: 07/01/2014 15:06

Rachel Carson Off Bldg 14th Fl

Reported: 07/16/2014 14:02

PO Box 8471

Harrisburg PA 17105-8471

HFFFD SDG#: PDW91-11FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	N.D.	0.5	2.0	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
04678	Anthracene	120-12-7	N.D.	0.1	0.5	1
04678	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
04678	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
04678	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
04678	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
04678	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: Duplicate-1 Grab Groundwater
1-263

LL Sample # WW 7518042
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 18:00 by BB

PA Dept. of Env. Protection

Submitted: 07/01/2014 15:06

Rachel Carson Off Bldg 14th Fl

Reported: 07/16/2014 14:02

PO Box 8471

Harrisburg PA 17105-8471

HFFFD SDG#: PDW91-11FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
04678	Carbazole	86-74-8	N.D.	0.5	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.5	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
04678	Chrysene	218-01-9	N.D.	0.1	0.5	1
04678	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
04678	Dibenzofuran	132-64-9	N.D.	0.5	1	1
04678	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	1	1
04678	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1	1
04678	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	5	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	5	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	10	30	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
04678	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
04678	Fluorene	86-73-7	N.D.	0.1	0.5	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
04678	Hexachloroethane	67-72-1	N.D.	1	5	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
04678	Isophorone	78-59-1	N.D.	0.5	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
04678	2-Methylphenol	95-48-7	N.D.	0.5	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.5	1	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04678	Naphthalene	91-20-3	N.D.	0.1	0.5	1
04678	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.5	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
04678	4-Nitrophenol	100-02-7	N.D.	10	30	1

*=This limit was used in the evaluation of the final result

Sample Description: Duplicate-1 Grab Groundwater
1-263

LL Sample # WW 7518042
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 18:00 by BB

PA Dept. of Env. Protection

Rachel Carson Off Bldg 14th Fl

Submitted: 07/01/2014 15:06

PO Box 8471

Reported: 07/16/2014 14:02

Harrisburg PA 17105-8471

HFFFD SDG#: PDW91-11FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04678	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
04678	Pentachlorophenol	87-86-5	N.D.	1	5	1
04678	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
04678	Phenol	108-95-2	N.D.	0.5	1	1
04678	Pyrene	129-00-0	N.D.	0.1	0.5	1
04678	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1
The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial.						
Metals Dissolved	SW-846 6010B		mg/l	mg/l	mg/l	
01743	Aluminum	7429-90-5	N.D.	0.0674	0.200	1
07044	Antimony	7440-36-0	N.D.	0.0051	0.0200	1
07035	Arsenic	7440-38-2	0.0120 J	0.0072	0.0200	1
07046	Barium	7440-39-3	0.0079	0.00033	0.0050	1
07047	Beryllium	7440-41-7	N.D.	0.00067	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00033	0.0050	1
01750	Calcium	7440-70-2	68.4	0.0334	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0013	0.0150	1
07052	Cobalt	7440-48-4	N.D.	0.0010	0.0050	1
07053	Copper	7440-50-8	N.D.	0.0028	0.0100	1
01754	Iron	7439-89-6	N.D.	0.0334	0.200	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	18.1	0.0167	0.100	1
07058	Manganese	7439-96-5	0.0024 J	0.00083	0.0050	1
07061	Nickel	7440-02-0	N.D.	0.0016	0.0100	1
01762	Potassium	7440-09-7	3.47	0.133	0.500	1
07036	Selenium	7782-49-2	N.D.	0.0048	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0018	0.0050	1
01767	Sodium	7440-23-5	19.1	0.167	1.00	1
07022	Thallium	7440-28-0	N.D.	0.0051	0.0300	1
07071	Vanadium	7440-62-2	0.0019 J	0.0019	0.0050	1
07072	Zinc	7440-66-6	0.0033 J	0.0020	0.0200	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury Water	7439-97-6	N.D.	0.000060	0.00020	1

*=This limit was used in the evaluation of the final result

Sample Description: Duplicate-1 Grab Groundwater
1-263

LL Sample # WW 7518042
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 18:00 by BB

PA Dept. of Env. Protection

Submitted: 07/01/2014 15:06

Rachel Carson Off Bldg 14th Fl

Reported: 07/16/2014 14:02

PO Box 8471

Harrisburg PA 17105-8471

HFFFD SDG#: PDW91-11FD

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.
This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL	1	C141832AA	07/03/2014 04:18	Kevin A Sposito	1
00527	19.5 1,4-Dioxane 8260B SIM	SW-846 8260B SIM	1	E141831AA	07/02/2014 21:42	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141831AA	07/02/2014 21:42	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C141832AA	07/03/2014 04:18	Kevin A Sposito	1
04678	8.37 TCL Semivolatiles/Waters	SW-846 8270C	1	14183WAC026	07/06/2014 23:39	Brian K Graham	1
00813	BNA Water Extraction	SW-846 3510C	1	14183WAC026	07/02/2014 16:00	Seth A Farrier	1
01743	Aluminum	SW-846 6010B	1	141831848001	07/08/2014 01:41	Tara L Snyder	1
07044	Antimony	SW-846 6010B	1	141831848001	07/08/2014 01:41	Tara L Snyder	1
07035	Arsenic	SW-846 6010B	1	141831848001	07/08/2014 01:41	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	141831848001	07/08/2014 01:41	Tara L Snyder	1
07047	Beryllium	SW-846 6010B	1	141831848001	07/08/2014 01:41	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	141831848001	07/08/2014 01:41	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	141831848001	07/08/2014 01:41	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	141831848001	07/08/2014 01:41	Tara L Snyder	1
07052	Cobalt	SW-846 6010B	1	141831848001	07/08/2014 01:41	Tara L Snyder	1
07053	Copper	SW-846 6010B	1	141831848001	07/08/2014 01:41	Tara L Snyder	1
01754	Iron	SW-846 6010B	1	141831848001	07/08/2014 01:41	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	141831848001	07/08/2014 01:41	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	141831848001	07/08/2014 01:41	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	141831848001	07/08/2014 01:41	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	141831848001	07/08/2014 01:41	Tara L Snyder	1
01762	Potassium	SW-846 6010B	1	141831848001	07/08/2014 01:41	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	141831848001	07/08/2014 01:41	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	141831848001	07/08/2014 01:41	Tara L Snyder	1
01767	Sodium	SW-846 6010B	1	141831848001	07/08/2014 01:41	Tara L Snyder	1
07022	Thallium	SW-846 6010B	1	141831848001	07/08/2014 01:41	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	141831848001	07/08/2014 01:41	Tara L Snyder	1
07072	Zinc	SW-846 6010B	1	141831848001	07/08/2014 01:41	Tara L Snyder	1
00259	Mercury Water	SW-846 7470A	1	141955713004	07/16/2014 07:47	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	141831848001	07/07/2014 10:27	Micaela L Dishong	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	141835713005	07/08/2014 09:23	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	2	141915713002	07/11/2014 09:34	Micaela L Dishong	1
05713	WW SW846 Hg Digest	SW-846 7470A	3	141955713004	07/15/2014 09:08	James L Mertz	1

*=This limit was used in the evaluation of the final result

Sample Description: Rinsate-1 Grab Water
1-263

LL Sample # WW 7518043
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 15:40 by BB

PA Dept. of Env. Protection

Submitted: 07/01/2014 15:06

Rachel Carson Off Bldg 14th Fl

Reported: 07/16/2014 14:02

PO Box 8471

Harrisburg PA 17105-8471

HFFRB SDG#: PDW91-12RB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	J	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	N.D.	0.5	2.0	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
04678	Anthracene	120-12-7	N.D.	0.1	0.5	1
04678	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
04678	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
04678	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
04678	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
04678	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: Rinsate-1 Grab Water
1-263

LL Sample # WW 7518043
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 15:40 by BB

PA Dept. of Env. Protection

Submitted: 07/01/2014 15:06

Rachel Carson Off Bldg 14th Fl

Reported: 07/16/2014 14:02

PO Box 8471

Harrisburg PA 17105-8471

HFFRB SDG#: PDW91-12RB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
04678	Carbazole	86-74-8	N.D.	0.5	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.5	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
04678	Chrysene	218-01-9	N.D.	0.1	0.5	1
04678	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
04678	Dibenzofuran	132-64-9	N.D.	0.5	1	1
04678	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	1	1
04678	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1	1
04678	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	5	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	5	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	16	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	10	31	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
04678	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
04678	Fluorene	86-73-7	N.D.	0.1	0.5	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	5	16	1
04678	Hexachloroethane	67-72-1	N.D.	1	5	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
04678	Isophorone	78-59-1	N.D.	0.5	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
04678	2-Methylphenol	95-48-7	N.D.	0.5	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04678	Naphthalene	91-20-3	N.D.	0.1	0.5	1
04678	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.5	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
04678	4-Nitrophenol	100-02-7	N.D.	10	31	1

*=This limit was used in the evaluation of the final result

Sample Description: Rinsate-1 Grab Water
1-263

LL Sample # WW 7518043
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 15:40 by BB

PA Dept. of Env. Protection

Rachel Carson Off Bldg 14th Fl

Submitted: 07/01/2014 15:06

PO Box 8471

Reported: 07/16/2014 14:02

Harrisburg PA 17105-8471

HFRRB SDG#: PDW91-12RB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04678	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
04678	Pentachlorophenol	87-86-5	N.D.	1	5	1
04678	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
04678	Phenol	108-95-2	N.D.	0.5	1	1
04678	Pyrene	129-00-0	N.D.	0.1	0.5	1
04678	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1
The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted and the QC is again outside of the acceptance limits. The data is reported from the initial trial.						
Metals Dissolved	SW-846 6010B	mg/l	mg/l	mg/l		
01743	Aluminum	7429-90-5	N.D.	0.0674	0.200	1
07044	Antimony	7440-36-0	N.D.	0.0051	0.0200	1
07035	Arsenic	7440-38-2	N.D.	0.0072	0.0200	1
07046	Barium	7440-39-3	0.0361	0.00033	0.0050	1
07047	Beryllium	7440-41-7	N.D.	0.00067	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00033	0.0050	1
01750	Calcium	7440-70-2	0.196 J	0.0334	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0013	0.0150	1
07052	Cobalt	7440-48-4	N.D.	0.0010	0.0050	1
07053	Copper	7440-50-8	N.D.	0.0028	0.0100	1
01754	Iron	7439-89-6	N.D.	0.0334	0.200	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	0.0216 J	0.0167	0.100	1
07058	Manganese	7439-96-5	0.0013 J	0.00083	0.0050	1
07061	Nickel	7440-02-0	N.D.	0.0016	0.0100	1
01762	Potassium	7440-09-7	N.D.	0.133	0.500	1
07036	Selenium	7782-49-2	N.D.	0.0048	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0018	0.0050	1
01767	Sodium	7440-23-5	0.949 J	0.167	1.00	1
07022	Thallium	7440-28-0	N.D.	0.0051	0.0300	1
07071	Vanadium	7440-62-2	N.D.	0.0019	0.0050	1
07072	Zinc	7440-66-6	N.D.	0.0020	0.0200	1
	SW-846 7470A	mg/l	mg/l	mg/l		
00259	Mercury Water	7439-97-6	N.D.	0.000060	0.00020	1

*=This limit was used in the evaluation of the final result

Sample Description: Rinsate-1 Grab Water
1-263

LL Sample # WW 7518043
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014 15:40 by BB

PA Dept. of Env. Protection

Submitted: 07/01/2014 15:06

Rachel Carson Off Bldg 14th Fl

Reported: 07/16/2014 14:02

PO Box 8471

Harrisburg PA 17105-8471

HFFRB SDG#: PDW91-12RB

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.
This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL	1	C141832AA	07/02/2014 23:00	Kevin A Sposito	1
00527	19.5 1,4-Dioxane 8260B SIM	SW-846 8260B SIM	1	E141831AA	07/02/2014 17:33	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141831AA	07/02/2014 17:33	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C141832AA	07/02/2014 23:00	Kevin A Sposito	1
04678	8.37 TCL Semivolatiles/Waters	SW-846 8270C	1	14183WAC026	07/07/2014 00:07	Brian K Graham	1
00813	BNA Water Extraction	SW-846 3510C	1	14183WAC026	07/02/2014 16:00	Seth A Farrier	1
01743	Aluminum	SW-846 6010B	1	141831848001	07/08/2014 01:44	Tara L Snyder	1
07044	Antimony	SW-846 6010B	1	141831848001	07/08/2014 01:44	Tara L Snyder	1
07035	Arsenic	SW-846 6010B	1	141831848001	07/08/2014 01:44	Tara L Snyder	1
07046	Barium	SW-846 6010B	1	141831848001	07/08/2014 01:44	Tara L Snyder	1
07047	Beryllium	SW-846 6010B	1	141831848001	07/08/2014 01:44	Tara L Snyder	1
07049	Cadmium	SW-846 6010B	1	141831848001	07/08/2014 01:44	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	141831848001	07/08/2014 01:44	Tara L Snyder	1
07051	Chromium	SW-846 6010B	1	141831848001	07/08/2014 01:44	Tara L Snyder	1
07052	Cobalt	SW-846 6010B	1	141831848001	07/08/2014 01:44	Tara L Snyder	1
07053	Copper	SW-846 6010B	1	141831848001	07/08/2014 01:44	Tara L Snyder	1
01754	Iron	SW-846 6010B	1	141831848001	07/08/2014 01:44	Tara L Snyder	1
07055	Lead	SW-846 6010B	1	141831848001	07/08/2014 01:44	Tara L Snyder	1
01757	Magnesium	SW-846 6010B	1	141831848001	07/08/2014 01:44	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	141831848001	07/08/2014 01:44	Tara L Snyder	1
07061	Nickel	SW-846 6010B	1	141831848001	07/08/2014 01:44	Tara L Snyder	1
01762	Potassium	SW-846 6010B	1	141831848001	07/08/2014 01:44	Tara L Snyder	1
07036	Selenium	SW-846 6010B	1	141831848001	07/08/2014 01:44	Tara L Snyder	1
07066	Silver	SW-846 6010B	1	141831848001	07/08/2014 01:44	Tara L Snyder	1
01767	Sodium	SW-846 6010B	1	141831848001	07/08/2014 01:44	Tara L Snyder	1
07022	Thallium	SW-846 6010B	1	141831848001	07/08/2014 01:44	Tara L Snyder	1
07071	Vanadium	SW-846 6010B	1	141831848001	07/08/2014 01:44	Tara L Snyder	1
07072	Zinc	SW-846 6010B	1	141831848001	07/08/2014 01:44	Tara L Snyder	1
00259	Mercury Water	SW-846 7470A	1	141955713004	07/16/2014 07:49	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	141831848001	07/07/2014 10:27	Micaela L Dishong	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	141835713005	07/08/2014 09:23	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	2	141915713002	07/11/2014 09:34	Micaela L Dishong	1
05713	WW SW846 Hg Digest	SW-846 7470A	3	141955713004	07/15/2014 09:08	James L Mertz	1

*=This limit was used in the evaluation of the final result

Sample Description: Trip-1 Water
1-263

LL Sample # WW 7518044
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014

PA Dept. of Env. Protection

Submitted: 07/01/2014 15:06

Rachel Carson Off Bldg 14th Fl

Reported: 07/16/2014 14:02

PO Box 8471

Harrisburg PA 17105-8471

HFFTB SDG#: PDW91-13TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	N.D.	0.5	2.0	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: Trip-1 Water
1-263

LL Sample # WW 7518044
LL Group # 1485858
Account # 06195

Project Name: 1-263

Collected: 06/30/2014

PA Dept. of Env. Protection

Submitted: 07/01/2014 15:06

Rachel Carson Off Bldg 14th Fl

Reported: 07/16/2014 14:02

PO Box 8471

Harrisburg PA 17105-8471

HFFTB SDG#: PDW91-13TB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL purge	1	C141832AA	07/02/2014 23:23	Kevin A Sposito	1
00527	19.5 1,4-Dioxane 8260B SIM	SW-846 8260B SIM	1	E141831AA	07/02/2014 17:53	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141831AA	07/02/2014 17:53	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C141832AA	07/02/2014 23:23	Kevin A Sposito	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: PA Dept. of Env. Protection
Reported: 07/16/14 at 02:02 PM

Group Number: 1485858

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: C141832AA	Sample number(s): 7518032-7518044								
Acetone	N.D.	3.0	5.0	ug/l	91	91	60-139	0	30
Benzene	N.D.	0.1	0.5	ug/l	98	96	80-120	2	30
Bromodichloromethane	N.D.	0.1	0.5	ug/l	111	109	80-120	1	30
Bromoform	N.D.	0.1	0.5	ug/l	105	104	72-138	1	30
Bromomethane	N.D.	0.1	0.5	ug/l	115	114	62-126	1	30
2-Butanone	N.D.	1.0	5.0	ug/l	88	87	63-137	1	30
Carbon Disulfide	N.D.	0.4	0.5	ug/l	107	104	80-120	3	30
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	127	125	80-135	2	30
Chlorobenzene	N.D.	0.1	0.5	ug/l	103	102	80-120	0	30
Chloroethane	N.D.	0.1	0.5	ug/l	108	108	68-120	0	30
Chloroform	N.D.	0.1	0.5	ug/l	108	107	80-120	1	30
Chloromethane	N.D.	0.2	0.5	ug/l	113	113	55-120	0	30
Dibromochloromethane	N.D.	0.1	0.5	ug/l	115	114	80-126	1	30
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	100	99	80-120	1	30
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	119	116	80-127	2	30
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	104	103	80-123	2	30
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	103	101	80-120	2	30
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	106	105	80-120	1	30
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	98	98	80-120	0	30
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	98	99	80-120	2	30
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	104	107	80-120	2	30
Ethylbenzene	N.D.	0.1	0.5	ug/l	101	100	80-120	1	30
2-Hexanone	N.D.	1.0	5.0	ug/l	92	93	62-128	1	30
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	92	94	69-135	2	30
Methylene Chloride	N.D.	0.2	0.5	ug/l	95	93	80-120	2	30
Styrene	N.D.	0.1	0.5	ug/l	103	102	80-120	0	30
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	94	91	80-120	4	30
Tetrachloroethene	N.D.	0.1	0.5	ug/l	109	109	80-120	1	30
Toluene	N.D.	0.1	0.5	ug/l	99	99	80-120	0	30
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	116	115	80-120	1	30
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	102	101	80-120	1	30
Trichloroethene	N.D.	0.1	0.5	ug/l	107	106	80-120	1	30
Vinyl Chloride	N.D.	0.1	0.5	ug/l	120	118	59-124	2	30
Xylene (Total)	N.D.	0.1	0.5	ug/l	103	102	80-120	1	30
Batch number: E141831AA	Sample number(s): 7518032-7518044								
1,4-Dioxane	N.D.	0.5	2.0	ug/l	102	103	80-123	1	30
Batch number: 14183WAC026	Sample number(s): 7518032-7518043								
Acenaphthene	N.D.	0.1	0.5	ug/l	80	88	80-112	10	30
Acenaphthylene	N.D.	0.1	0.5	ug/l	89	100	84-125	11	30
Anthracene	N.D.	0.1	0.5	ug/l	83	89	82-116	7	30
Benzo(a)anthracene	N.D.	0.1	0.5	ug/l	91	95	81-126	4	30

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control SummaryClient Name: PA Dept. of Env. Protection
Reported: 07/16/14 at 02:02 PM

Group Number: 1485858

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS D %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Benzo(a)pyrene	N.D.	0.1	0.5	ug/l	84	85	82-116	1	30
Benzo(b)fluoranthene	N.D.	0.1	0.5	ug/l	93	92	82-121	2	30
Benzo(g,h,i)perylene	N.D.	0.1	0.5	ug/l	95	92	76-128	3	30
Benzo(k)fluoranthene	N.D.	0.1	0.5	ug/l	91	91	81-122	0	30
4-Bromophenyl-phenylether	N.D.	0.5	1	ug/l	81*	84	82-118	4	30
Butylbenzylphthalate	N.D.	2.	5	ug/l	62*	70*	79-119	13	30
Di-n-butylphthalate	N.D.	2.	5	ug/l	75*	81	80-119	8	30
Carbazole	N.D.	0.5	1	ug/l	84	94	84-117	11	30
4-Chloro-3-methylphenol	N.D.	0.5	1	ug/l	95	95	80-123	0	30
4-Chloroaniline	N.D.	0.5	1	ug/l	75	91	55-113	19	30
bis(2-Chloroethoxy)methane	N.D.	0.5	1	ug/l	82	93	77-115	13	30
bis(2-Chloroethyl)ether	N.D.	0.5	1	ug/l	78	87	78-112	11	30
2-Chloronaphthalene	N.D.	0.4	1	ug/l	77	83	71-120	8	30
2-Chlorophenol	N.D.	0.5	1	ug/l	91	89	76-111	1	30
4-Chlorophenyl-phenylether	N.D.	0.5	1	ug/l	78	85	77-114	7	30
2,2'-oxybis(1-Chloropropane)	N.D.	0.5	1	ug/l	79	88	60-118	11	30
Chrysene	N.D.	0.1	0.5	ug/l	93	98	81-120	5	30
Dibenz(a,h)anthracene	N.D.	0.1	0.5	ug/l	94	92	83-124	1	30
Dibenzofuran	N.D.	0.5	1	ug/l	80*	88	81-110	9	30
1,2-Dichlorobenzene	N.D.	0.5	1	ug/l	71	78	69-107	9	30
1,3-Dichlorobenzene	N.D.	0.5	1	ug/l	66*	73	69-107	10	30
1,4-Dichlorobenzene	N.D.	0.5	1	ug/l	68	74	66-111	8	30
3,3'-Dichlorobenzidine	N.D.	2.	5	ug/l	61	83	47-108	31*	30
2,4-Dichlorophenol	N.D.	0.5	1	ug/l	95	94	84-119	1	30
Diethylphthalate	N.D.	2.	5	ug/l	69*	77	70-118	11	30
2,4-Dimethylphenol	N.D.	0.5	1	ug/l	81	86	81-114	6	30
Dimethylphthalate	N.D.	2.	5	ug/l	50	57	43-128	13	30
4,6-Dinitro-2-methylphenol	N.D.	5.	15	ug/l	87	84	56-145	4	30
2,4-Dinitrophenol	N.D.	10.	30	ug/l	69	72	32-148	3	30
2,4-Dinitrotoluene	N.D.	1.	5	ug/l	87	99	84-126	13	30
2,6-Dinitrotoluene	N.D.	0.5	1	ug/l	86	98	81-124	13	30
bis(2-Ethylhexyl)phthalate	N.D.	2.	5	ug/l	85	88	78-124	3	30
Fluoranthene	N.D.	0.1	0.5	ug/l	85	90	82-121	6	30
Fluorene	N.D.	0.1	0.5	ug/l	81	89	80-117	10	30
Hexachlorobenzene	N.D.	0.1	0.5	ug/l	85	85	80-119	1	30
Hexachlorobutadiene	N.D.	0.5	1	ug/l	64	67	61-120	4	30
Hexachlorocyclopentadiene	N.D.	5.	15	ug/l	28	30	28-133	7	30
Hexachloroethane	N.D.	1.	5	ug/l	64	70	55-109	9	30
Indeno(1,2,3-cd)pyrene	N.D.	0.1	0.5	ug/l	91	87	80-126	3	30
Isophorone	N.D.	0.5	1	ug/l	86	97	82-119	12	30
2-Methylnaphthalene	N.D.	0.1	0.5	ug/l	71*	77	75-106	9	30
2-Methylphenol	N.D.	0.5	1	ug/l	86	87	72-111	1	30
4-Methylphenol	N.D.	0.5	1	ug/l	83	84	63-110	1	30
Naphthalene	N.D.	0.1	0.5	ug/l	75	83	75-108	10	30
2-Nitroaniline	N.D.	0.5	1	ug/l	77*	86	84-122	10	30
3-Nitroaniline	N.D.	0.5	1	ug/l	73	83	70-118	13	30
4-Nitroaniline	N.D.	0.5	1	ug/l	73	82	66-110	13	30
Nitrobenzene	N.D.	0.5	1	ug/l	81	91	77-119	11	30
2-Nitrophenol	N.D.	0.5	1	ug/l	90	91	81-128	1	30
4-Nitrophenol	N.D.	10.	30	ug/l	60	58	25-95	3	30
N-Nitroso-di-n-propylamine	N.D.	0.5	1	ug/l	80	90	71-117	12	30
N-Nitrosodiphenylamine	N.D.	0.5	1	ug/l	89	96	80-115	8	30
Di-n-octylphthalate	N.D.	2.	5	ug/l	91	90	78-129	1	30
Pentachlorophenol	N.D.	1.	5	ug/l	91	86	54-124	5	30
Phenanthrene	N.D.	0.1	0.5	ug/l	82	87	81-114	6	30
Phenol	N.D.	0.5	1	ug/l	57	58	31-79	2	30

*- Outside of specification

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(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control SummaryClient Name: PA Dept. of Env. Protection
Reported: 07/16/14 at 02:02 PM

Group Number: 1485858

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS D %REC</u>	<u>LCS/LCS D Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Pyrene	N.D.	0.1	0.5	ug/l	85	90	81-112	6	30
1,2,4-Trichlorobenzene	N.D.	0.5	1	ug/l	68*	72*	77-111	6	30
2,4,5-Trichlorophenol	N.D.	0.5	1	ug/l	94	93	81-121	1	30
2,4,6-Trichlorophenol	N.D.	0.5	1	ug/l	89	88	84-119	2	30
Batch number: 141831848001 Sample number(s): 7518040-7518043									
Aluminum	N.D.	0.0674	0.200	mg/l	110		90-112		
Antimony	N.D.	0.0051	0.0200	mg/l	107		88-111		
Arsenic	N.D.	0.0072	0.0200	mg/l	111		90-113		
Barium	0.00051 J	0.00033	0.0050	mg/l	105		90-110		
Beryllium	N.D.	0.00067	0.0050	mg/l	103		90-111		
Cadmium	N.D.	0.00033	0.0050	mg/l	107		90-112		
Calcium	0.119 J	0.0334	0.200	mg/l	110		90-112		
Chromium	N.D.	0.0013	0.0150	mg/l	104		90-110		
Cobalt	N.D.	0.0010	0.0050	mg/l	108		90-114		
Copper	N.D.	0.0028	0.0100	mg/l	106		90-112		
Iron	N.D.	0.0334	0.200	mg/l	103		90-112		
Lead	N.D.	0.0047	0.0150	mg/l	109		88-116		
Magnesium	0.0190 J	0.0167	0.100	mg/l	107		89-110		
Manganese	0.0013 J	0.00083	0.0050	mg/l	108		90-110		
Nickel	N.D.	0.0016	0.0100	mg/l	111		90-117		
Potassium	N.D.	0.133	0.500	mg/l	108		90-110		
Selenium	N.D.	0.0048	0.0200	mg/l	106		89-113		
Silver	N.D.	0.0018	0.0050	mg/l	86		80-120		
Sodium	N.D.	0.167	1.00	mg/l	109		87-114		
Thallium	N.D.	0.0051	0.0300	mg/l	96		90-118		
Vanadium	N.D.	0.0019	0.0050	mg/l	104		90-110		
Zinc	0.0033 J	0.0020	0.0200	mg/l	105		90-110		
Batch number: 141955713004 Sample number(s): 7518040-7518043									
Mercury Water	N.D.	0.00006	0.00020	mg/l	100		80-120		
		0							

Sample Matrix Quality ControlUnspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 141831848001 Sample number(s): 7518040-7518043 UNSPK: P516944 BKG: P516944									
Aluminum	108	108	75-125	0	20	0.911 J	1.12 J	20 (1)	20
Antimony	115	114	76-122	1	20	N.D.	N.D.	0 (1)	20
Arsenic	125*	123	81-123	2	20	N.D.	0.0818 J	200* (1)	20
Barium	103	104	78-125	1	20	0.197	0.0315 J	145* (1)	20
Beryllium	95	96	87-114	1	20	N.D.	N.D.	0 (1)	20
Cadmium	99	100	75-122	1	20	N.D.	N.D.	0 (1)	20
Calcium	103	104	75-125	0	20	2.02	1.44 J	33* (1)	20
Chromium	98	98	76-120	1	20	0.0309 J	0.0319 J	3 (1)	20
Cobalt	96	97	82-112	2	20	N.D.	N.D.	0 (1)	20
Copper	113	113	86-122	0	20	N.D.	N.D.	0 (1)	20
Iron	100	100	75-125	0	20	N.D.	N.D.	0 (1)	20
Lead	96	97	75-125	2	20	N.D.	N.D.	0 (1)	20

*- Outside of specification

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(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: PA Dept. of Env. Protection

Group Number: 1485858

Reported: 07/16/14 at 02:02 PM

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Magnesium	104	105	81-118	1	20	N.D.	N.D.	0 (1)	20
Manganese	100	101	75-125	1	20	0.0119 J	0.0125 J	5 (1)	20
Nickel	97	98	79-123	2	20	N.D.	N.D.	0 (1)	20
Potassium	121	112	77-128	6	20	37.8	48.5	25*	20
Selenium	112	110	75-125	1	20	N.D.	N.D.	0 (1)	20
Silver	96	94	75-125	3	20	N.D.	N.D.	0 (1)	20
Sodium	401 (2)	-6856 (2)	84-117	21*	20	37,900	38,900	3	20
Thallium	72*	74*	75-125	2	20	N.D.	N.D.	0 (1)	20
Vanadium	102	103	90-117	1	20	N.D.	N.D.	0 (1)	20
Zinc	113	118*	85-117	4	20	0.178 J	0.169 J	5 (1)	20
Batch number: 141955713004	Sample number(s): 7518040-7518043 UNSPK: P514111 BKG: P514111								
Mercury Water	94	97	80-120	2	20	N.D.	N.D.	0 (1)	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 7.1 Low Level VOCs 8260B

Batch number: C141832AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7518032	111	104	98	98
7518033	110	104	97	98
7518034	111	104	97	98
7518035	110	102	97	98
7518036	111	103	97	98
7518037	111	105	98	99
7518038	110	103	98	97
7518039	110	103	98	97
7518040	111	102	98	98
7518041	111	105	97	96
7518042	111	102	98	98
7518043	110	105	97	97
7518044	111	105	97	97
Blank	110	106	98	98
LCS	107	106	100	102
LCSD	108	101	99	102
Limits:	77-114	74-113	77-110	78-110

Analysis Name: 19.5 1,4-Dioxane 8260B SIM

Batch number: E141831AA

Toluene-d8

7518032	96
7518033	96

*- Outside of specification

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Quality Control Summary

Client Name: PA Dept. of Env. Protection

Group Number: 1485858

Reported: 07/16/14 at 02:02 PM

Surrogate Quality Control

7518034 96
7518035 96
7518036 95
7518037 96
7518038 95
7518039 95
7518040 95
7518041 95
7518042 95
7518043 96
7518044 96
Blank 96
LCS 96
LCSD 96

Limits: 80-120

Analysis Name: 8.37 TCL Semivolatiles/Waters

Batch number: 14183WAC026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7518032	69	52	86	93	86	86
7518033	70	51	93	91	87	83
7518034	57	42	74	92	88	79
7518035	63	47	86	93	89	102
7518036	41	29	44	85	77	57
7518037	73	53	94	93	91	89
7518038	72	53	91	94	90	93
7518039	77	58	97	94	90	73
7518040	72	52	93	97	94	88
7518041	68	52	93	95	96	102
7518042	68	51	93	92	90	79
7518043	66	50	88	93	93	74
Blank	79	58	99	101	99	119
LCS	78	58	97	85	83	105
LCSD	77	57	95	96	90	105
Limits:	10-107	10-83	22-150	60-123	67-116	53-139

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Acct. # 6195

For Eurofins Lancaster Laboratories Environmental use only

Group # 1485858 Sample # 7518032-44

Instructions on reverse side correspond with circled numbers.

COC #347460

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 0713



**Lancaster Laboratories
Environmental**

Acct. # 6195 For Eurofins Lancaster Laboratories Environmental use only
Group # 1485858 Sample # 7518032-44
Instructions on reverse side correspond with circled numbers.

COC #347461

[illegible]

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but $\geq$ IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

PA Dept. of Env. Protection
Rachel Carson Off Bldg 14th Fl
PO Box 8471
Harrisburg PA 17105-8471

July 14, 2014

Project: 1-263

Submittal Date: 07/03/2014
Group Number: 1486636
SDG: PDW95
PO Number: 4000016590
Release Number: 1-263
State of Sample Origin: PA

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
MW-2S Grab Groundwater	7521619
MW-2D-LOWER Grab Groundwater	7521620
MW-2D-UPPER Grab Groundwater	7521621
MW-1 Grab Groundwater	7521622
MW-1S Grab Groundwater	7521623
MW-13 Grab Groundwater	7521624
MW-9D-LOWER Grab Groundwater	7521625
MW-9D-UPPER Grab Groundwater	7521626
MW-8D-LOWER Grab Groundwater	7521627
MW-8D-UPPER Grab Groundwater	7521628
MW-12 Grab Groundwater	7521629
Duplicate-2 Grab Groundwater	7521630
Rinsate-2 Grab Water	7521631

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	Leidos	Attn: Richard L Merhar
ELECTRONIC COPY TO	PA Dept. of Env. Protection	Attn: Ann Asbury
ELECTRONIC COPY TO	PA Dept. of Env. Protection	Attn: Colin Wade

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Sample Description: MW-2S Grab Groundwater
1-263

LL Sample # WW 7521619
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 09:10 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/14/2014 15:15

PO Box 8471

Harrisburg PA 17105-8471

P9501 SDG#: PDW95-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	N.D.	0.5	2.0	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	0.6	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.6	1
04678	Anthracene	120-12-7	N.D.	0.1	0.6	1
04678	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.6	1
04678	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.6	1
04678	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.6	1
04678	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.6	1
04678	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.6	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.6	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	6	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-2S Grab Groundwater
1-263

LL Sample # WW 7521619
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 09:10 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/14/2014 15:15

PO Box 8471

Harrisburg PA 17105-8471

P9501 SDG#: PDW95-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	6	1
04678	Carbazole	86-74-8	N.D.	0.6	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.6	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.6	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.6	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.6	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.6	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.6	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.6	1	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
04678	Chrysene	218-01-9	N.D.	0.1	0.6	1
04678	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.6	1
04678	Dibenzofuran	132-64-9	N.D.	0.6	1	1
04678	1,2-Dichlorobenzene	95-50-1	N.D.	0.6	1	1
04678	1,3-Dichlorobenzene	541-73-1	N.D.	0.6	1	1
04678	1,4-Dichlorobenzene	106-46-7	N.D.	0.6	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	6	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.6	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	6	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.6	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	6	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	6	17	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	11	33	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	6	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.6	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	6	1
04678	Fluoranthene	206-44-0	N.D.	0.1	0.6	1
04678	Fluorene	86-73-7	N.D.	0.1	0.6	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.6	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.6	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	6	17	1
04678	Hexachloroethane	67-72-1	N.D.	1	6	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.6	1
04678	Isophorone	78-59-1	N.D.	0.6	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.6	1
04678	2-Methylphenol	95-48-7	N.D.	0.6	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.6	1	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04678	Naphthalene	91-20-3	N.D.	0.1	0.6	1
04678	2-Nitroaniline	88-74-4	N.D.	0.6	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.6	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.6	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.6	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.6	1	1
04678	4-Nitrophenol	100-02-7	N.D.	11	33	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-2S Grab Groundwater
1-263

LL Sample # WW 7521619
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 09:10 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/14/2014 15:15

PO Box 8471

Harrisburg PA 17105-8471

P9501 SDG#: PDW95-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.6	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.6	1	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04678	Di-n-octylphthalate	117-84-0	N.D.	2	6	1
04678	Pentachlorophenol	87-86-5	N.D.	1	6	1
04678	Phenanthrene	85-01-8	N.D.	0.1	0.6	1
04678	Phenol	108-95-2	N.D.	0.6	1	1
04678	Pyrene	129-00-0	N.D.	0.1	0.6	1
04678	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.6	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.6	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.6	1	1

The LCS/LCSD surrogate(s) recovery is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL	1	I141891AA	07/08/2014 11:43	Jason M Long	1
00527	19.5 1,4-Dioxane 8260B	SW-846 8260B SIM	1	E141881AA	07/07/2014 12:28	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141881AA	07/07/2014 12:28	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I141891AA	07/08/2014 11:43	Jason M Long	1
04678	8.37 TCL	SW-846 8270C	1	14186WAE026	07/10/2014 18:28	Chad A Moline	1
00813	Semivolatiles/Waters						
00813	BNA Water Extraction	SW-846 3510C	1	14186WAE026	07/07/2014 09:30	Anna E Stager	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-2D-LOWER Grab Groundwater
1-263

LL Sample # WW 7521620
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 10:00 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/14/2014 15:15

PO Box 8471

Harrisburg PA 17105-8471

P9502 SDG#: PDW95-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	N.D.	0.5	2.0	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
04678	Anthracene	120-12-7	N.D.	0.1	0.5	1
04678	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
04678	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
04678	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
04678	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
04678	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-2D-LOWER Grab Groundwater
1-263

LL Sample # WW 7521620
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 10:00 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/14/2014 15:15

PO Box 8471

Harrisburg PA 17105-8471

P9502 SDG#: PDW95-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
04678	Carbazole	86-74-8	N.D.	0.5	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.5	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
04678	Chrysene	218-01-9	N.D.	0.1	0.5	1
04678	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
04678	Dibenzofuran	132-64-9	N.D.	0.5	1	1
04678	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	1	1
04678	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1	1
04678	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	5	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	5	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	16	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	10	31	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
04678	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
04678	Fluorene	86-73-7	N.D.	0.1	0.5	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	5	16	1
04678	Hexachloroethane	67-72-1	N.D.	1	5	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
04678	Isophorone	78-59-1	N.D.	0.5	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
04678	2-Methylphenol	95-48-7	N.D.	0.5	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04678	Naphthalene	91-20-3	N.D.	0.1	0.5	1
04678	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.5	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
04678	4-Nitrophenol	100-02-7	N.D.	10	31	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-2D-LOWER Grab Groundwater
1-263

LL Sample # WW 7521620
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 10:00 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/14/2014 15:15

PO Box 8471

Harrisburg PA 17105-8471

P9502 SDG#: PDW95-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04678	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
04678	Pentachlorophenol	87-86-5	N.D.	1	5	1
04678	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
04678	Phenol	108-95-2	N.D.	0.5	1	1
04678	Pyrene	129-00-0	N.D.	0.1	0.5	1
04678	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1

The LCS/LCSD surrogate(s) recovery is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL	1	I141891AA	07/08/2014 12:06	Jason M Long	1
	purge						
00527	19.5 1,4-Dioxane 8260B	SW-846 8260B SIM	1	E141881AA	07/07/2014 12:49	Jason M Long	1
	SIM						
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141881AA	07/07/2014 12:49	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I141891AA	07/08/2014 12:06	Jason M Long	1
04678	8.37 TCL	SW-846 8270C	1	14186WAE026	07/10/2014 18:56	Chad A Moline	1
	Semivolatiles/Waters						
00813	BNA Water Extraction	SW-846 3510C	1	14186WAE026	07/07/2014 09:30	Anna E Stager	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-2D-UPPER Grab Groundwater
1-263

LL Sample # WW 7521621
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 11:00 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/14/2014 15:15

PO Box 8471

Harrisburg PA 17105-8471

P9503 SDG#: PDW95-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	1.5	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	2.3	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.3 J	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	0.3 J	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	2.5	0.5	2.0	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
04678	Anthracene	120-12-7	N.D.	0.1	0.5	1
04678	Benzo(a)anthracene	56-55-3	0.3 J	0.1	0.5	1
04678	Benzo(a)pyrene	50-32-8	0.3 J	0.1	0.5	1
04678	Benzo(b)fluoranthene	205-99-2	0.4 J	0.1	0.5	1
04678	Benzo(g,h,i)perylene	191-24-2	0.2 J	0.1	0.5	1
04678	Benzo(k)fluoranthene	207-08-9	0.2 J	0.1	0.5	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-2D-UPPER Grab Groundwater
1-263

LL Sample # WW 7521621
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 11:00 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/14/2014 15:15

PO Box 8471

Harrisburg PA 17105-8471

P9503 SDG#: PDW95-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
04678	Carbazole	86-74-8	N.D.	0.5	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.5	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
04678	Chrysene	218-01-9	0.4 J	0.1	0.5	1
04678	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
04678	Dibenzofuran	132-64-9	N.D.	0.5	1	1
04678	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	1	1
04678	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1	1
04678	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	5	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	5	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	16	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	10	31	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
04678	Fluoranthene	206-44-0	0.7	0.1	0.5	1
04678	Fluorene	86-73-7	N.D.	0.1	0.5	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	5	16	1
04678	Hexachloroethane	67-72-1	N.D.	1	5	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	0.2 J	0.1	0.5	1
04678	Isophorone	78-59-1	N.D.	0.5	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
04678	2-Methylphenol	95-48-7	N.D.	0.5	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.5	1	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04678	Naphthalene	91-20-3	N.D.	0.1	0.5	1
04678	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.5	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
04678	4-Nitrophenol	100-02-7	N.D.	10	31	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-2D-UPPER Grab Groundwater
1-263

LL Sample # WW 7521621
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 11:00 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/14/2014 15:15

PO Box 8471

Harrisburg PA 17105-8471

P9503 SDG#: PDW95-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04678	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
04678	Pentachlorophenol	87-86-5	N.D.	1	5	1
04678	Phenanthrene	85-01-8	0.4 J	0.1	0.5	1
04678	Phenol	108-95-2	N.D.	0.5	1	1
04678	Pyrene	129-00-0	0.7	0.1	0.5	1
04678	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1

The LCS/LCSD surrogate(s) recovery is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL purge	1	I141891AA	07/08/2014 12:28	Jason M Long	1
00527	19.5 1,4-Dioxane 8260B SIM	SW-846 8260B SIM	1	E141881AA	07/07/2014 13:10	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141881AA	07/07/2014 13:10	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I141891AA	07/08/2014 12:28	Jason M Long	1
04678	8.37 TCL Semivolatiles/Waters	SW-846 8270C	1	14186WAE026	07/10/2014 19:24	Chad A Moline	1
00813	BNA Water Extraction	SW-846 3510C	1	14186WAE026	07/07/2014 09:30	Anna E Stager	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-1 Grab Groundwater
1-263

LL Sample # WW 7521622
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 10:30 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/14/2014 15:15

PO Box 8471

Harrisburg PA 17105-8471

P9504 SDG#: PDW95-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	0.1 J	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	N.D.	0.5	2.0	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
04678	Anthracene	120-12-7	N.D.	0.1	0.5	1
04678	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
04678	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
04678	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
04678	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
04678	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-1 Grab Groundwater
1-263

LL Sample # WW 7521622

LL Group # 1486636

Account # 06195

Project Name: 1-263

Collected: 07/01/2014 10:30 by BB

PA Dept. of Env. Protection

Rachel Carson Off Bldg 14th Fl

Submitted: 07/03/2014 14:46

PO Box 8471

Reported: 07/14/2014 15:15

Harrisburg PA 17105-8471

P9504 SDG#: PDW95-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
04678	Carbazole	86-74-8	N.D.	0.5	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.5	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
04678	Chrysene	218-01-9	N.D.	0.1	0.5	1
04678	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
04678	Dibenzofuran	132-64-9	N.D.	0.5	1	1
04678	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	1	1
04678	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1	1
04678	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	5	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	5	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	16	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	11	32	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
04678	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
04678	Fluorene	86-73-7	N.D.	0.1	0.5	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	5	16	1
04678	Hexachloroethane	67-72-1	N.D.	1	5	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
04678	Isophorone	78-59-1	N.D.	0.5	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
04678	2-Methylphenol	95-48-7	N.D.	0.5	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04678	Naphthalene	91-20-3	N.D.	0.1	0.5	1
04678	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.5	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
04678	4-Nitrophenol	100-02-7	N.D.	11	32	1

*-=This limit was used in the evaluation of the final result

Sample Description: MW-1 Grab Groundwater
1-263

LL Sample # WW 7521622
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 10:30 by BB

PA Dept. of Env. Protection

Rachel Carson Off Bldg 14th Fl

Submitted: 07/03/2014 14:46

PO Box 8471

Reported: 07/14/2014 15:15

Harrisburg PA 17105-8471

P9504 SDG#: PDW95-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04678	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
04678	Pentachlorophenol	87-86-5	N.D.	1	5	1
04678	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
04678	Phenol	108-95-2	N.D.	0.5	1	1
04678	Pyrene	129-00-0	N.D.	0.1	0.5	1
04678	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1
	The LCS/LCSD surrogate(s) recovery is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.					

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL purge	1	I141891AA	07/08/2014 12:50	Jason M Long	1
00527	19.5 1,4-Dioxane 8260B SIM	SW-846 8260B SIM	1	E141881AA	07/07/2014 13:30	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141881AA	07/07/2014 13:30	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I141891AA	07/08/2014 12:50	Jason M Long	1
04678	8.37 TCL Semivolatiles/Waters	SW-846 8270C	1	14186WAE026	07/10/2014 19:53	Chad A Moline	1
00813	BNA Water Extraction	SW-846 3510C	1	14186WAE026	07/07/2014 09:30	Anna E Stager	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-1S Grab Groundwater
1-263

LL Sample # WW 7521623
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 11:35 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/14/2014 15:15

PO Box 8471

Harrisburg PA 17105-8471

P9505 SDG#: PDW95-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	4.5 J	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	0.7	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	0.2 J	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	2.9	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	N.D.	0.5	2.0	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
04678	Anthracene	120-12-7	N.D.	0.1	0.5	1
04678	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
04678	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
04678	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
04678	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
04678	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-1S Grab Groundwater
1-263

LL Sample # WW 7521623
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 11:35 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/14/2014 15:15

PO Box 8471

Harrisburg PA 17105-8471

P9505 SDG#: PDW95-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
04678	Carbazole	86-74-8	N.D.	0.5	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.5	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
04678	Chrysene	218-01-9	N.D.	0.1	0.5	1
04678	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
04678	Dibenzofuran	132-64-9	N.D.	0.5	1	1
04678	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	1	1
04678	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1	1
04678	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	5	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	5	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	16	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	11	32	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
04678	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
04678	Fluorene	86-73-7	N.D.	0.1	0.5	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	5	16	1
04678	Hexachloroethane	67-72-1	N.D.	1	5	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
04678	Isophorone	78-59-1	N.D.	0.5	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
04678	2-Methylphenol	95-48-7	N.D.	0.5	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04678	Naphthalene	91-20-3	N.D.	0.1	0.5	1
04678	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.5	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
04678	4-Nitrophenol	100-02-7	N.D.	11	32	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-1S Grab Groundwater
1-263

LL Sample # WW 7521623
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 11:35 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/14/2014 15:15

PO Box 8471

Harrisburg PA 17105-8471

P9505 SDG#: PDW95-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04678	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
04678	Pentachlorophenol	87-86-5	N.D.	1	5	1
04678	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
04678	Phenol	108-95-2	N.D.	0.5	1	1
04678	Pyrene	129-00-0	N.D.	0.1	0.5	1
04678	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1

The LCS/LCSD surrogate(s) recovery is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL	1	I141891AA	07/08/2014 13:12	Jason M Long	1
	purge						
00527	19.5 1,4-Dioxane 8260B	SW-846 8260B SIM	1	E141881AA	07/07/2014 13:51	Jason M Long	1
	SIM						
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141881AA	07/07/2014 13:51	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I141891AA	07/08/2014 13:12	Jason M Long	1
04678	8.37 TCL	SW-846 8270C	1	14186WAE026	07/10/2014 20:21	Chad A Moline	1
	Semivolatiles/Waters						
00813	BNA Water Extraction	SW-846 3510C	1	14186WAE026	07/07/2014 09:30	Anna E Stager	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-13 Grab Groundwater
1-263

LL Sample # WW 7521624
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 13:40 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/14/2014 15:15

PO Box 8471

Harrisburg PA 17105-8471

P9506 SDG#: PDW95-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	1.0	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	33	2.0	10	20
02898	Chloroethane	75-00-3	0.6	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	170	2.0	10	20
02898	1,2-Dichloroethane	107-06-2	0.9	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	40	2.0	10	20
02898	cis-1,2-Dichloroethene	156-59-2	31	2.0	10	20
02898	trans-1,2-Dichloroethene	156-60-5	0.7	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	0.5 J	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	0.3 J	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.4 J	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	1.6	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	0.3 J	0.1	0.5	1
02898	Trichloroethene	79-01-6	100	2.0	10	20
02898	Vinyl Chloride	75-01-4	2.7	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
The result obtained for acetone in the diluted analysis may be due to laboratory contamination.						
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	240	13	50	25
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	0.6	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.6	1
04678	Anthracene	120-12-7	N.D.	0.1	0.6	1
04678	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.6	1
04678	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.6	1
04678	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.6	1
04678	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.6	1
04678	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.6	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-13 Grab Groundwater
1-263

LL Sample # WW 7521624
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 13:40 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/14/2014 15:15

PO Box 8471

Harrisburg PA 17105-8471

P9506 SDG#: PDW95-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.6	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	6	1
04678	Di-n-butylphthalate	84-74-2	N.D.	2	6	1
04678	Carbazole	86-74-8	N.D.	0.6	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.6	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.6	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.6	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.6	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.6	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.6	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.6	1	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
04678	Chrysene	218-01-9	N.D.	0.1	0.6	1
04678	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.6	1
04678	Dibenzofuran	132-64-9	N.D.	0.6	1	1
04678	1,2-Dichlorobenzene	95-50-1	38	0.6	1	1
04678	1,3-Dichlorobenzene	541-73-1	4	0.6	1	1
04678	1,4-Dichlorobenzene	106-46-7	6	0.6	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	6	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.6	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	6	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.6	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	6	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	6	17	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	11	33	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	6	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.6	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	6	1
04678	Fluoranthene	206-44-0	N.D.	0.1	0.6	1
04678	Fluorene	86-73-7	N.D.	0.1	0.6	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.6	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.6	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	6	17	1
04678	Hexachloroethane	67-72-1	N.D.	1	6	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.6	1
04678	Isophorone	78-59-1	N.D.	0.6	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.6	1
04678	2-Methylphenol	95-48-7	N.D.	0.6	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.6	1	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04678	Naphthalene	91-20-3	N.D.	0.1	0.6	1
04678	2-Nitroaniline	88-74-4	N.D.	0.6	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.6	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.6	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.6	1	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-13 Grab Groundwater
1-263

LL Sample # WW 7521624
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 13:40 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/14/2014 15:15

PO Box 8471

Harrisburg PA 17105-8471

P9506 SDG#: PDW95-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	2-Nitrophenol	88-75-5	N.D.	0.6	1	1
04678	4-Nitrophenol	100-02-7	N.D.	11	33	1
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.6	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.6	1	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04678	Di-n-octylphthalate	117-84-0	N.D.	2	6	1
04678	Pentachlorophenol	87-86-5	N.D.	1	6	1
04678	Phenanthrene	85-01-8	N.D.	0.1	0.6	1
04678	Phenol	108-95-2	N.D.	0.6	1	1
04678	Pyrene	129-00-0	N.D.	0.1	0.6	1
04678	1,2,4-Trichlorobenzene	120-82-1	2	0.6	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.6	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.6	1	1

The LCS/LCSD surrogate(s) recovery is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL	1	I141891AA	07/08/2014 14:40	Jason M Long	1
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL	1	I141891AA	07/08/2014 15:02	Jason M Long	20
00527	19.5 1,4-Dioxane 8260B SIM	SW-846 8260B SIM	1	E141882AA	07/07/2014 22:19	Sara E Johnson	25
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141882AA	07/07/2014 22:19	Sara E Johnson	25
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I141891AA	07/08/2014 14:40	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	3	I141891AA	07/08/2014 15:02	Jason M Long	20
04678	8.37 TCL Semivolatiles/Waters	SW-846 8270C	1	14186WAE026	07/10/2014 21:22	Chad A Moline	1
00813	BNA Water Extraction	SW-846 3510C	1	14186WAE026	07/07/2014 09:30	Anna E Stager	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-9D-LOWER Grab Groundwater
1-263

LL Sample # WW 7521625
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 13:30 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/14/2014 15:15

PO Box 8471

Harrisburg PA 17105-8471

P9507 SDG#: PDW95-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	N.D.	0.5	2.0	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
04678	Anthracene	120-12-7	N.D.	0.1	0.5	1
04678	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
04678	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
04678	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
04678	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
04678	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-9D-LOWER Grab Groundwater
1-263

LL Sample # WW 7521625
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 13:30 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/14/2014 15:15

PO Box 8471

Harrisburg PA 17105-8471

P9507 SDG#: PDW95-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
04678	Carbazole	86-74-8	N.D.	0.5	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.5	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
04678	Chrysene	218-01-9	N.D.	0.1	0.5	1
04678	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
04678	Dibenzofuran	132-64-9	N.D.	0.5	1	1
04678	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	1	1
04678	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1	1
04678	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	5	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	5	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	16	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	10	31	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
04678	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
04678	Fluorene	86-73-7	N.D.	0.1	0.5	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	5	16	1
04678	Hexachloroethane	67-72-1	N.D.	1	5	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
04678	Isophorone	78-59-1	N.D.	0.5	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
04678	2-Methylphenol	95-48-7	N.D.	0.5	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04678	Naphthalene	91-20-3	N.D.	0.1	0.5	1
04678	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.5	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
04678	4-Nitrophenol	100-02-7	N.D.	10	31	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-9D-LOWER Grab Groundwater
1-263

LL Sample # WW 7521625
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 13:30 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/14/2014 15:15

PO Box 8471

Harrisburg PA 17105-8471

P9507 SDG#: PDW95-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C						
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04678	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
04678	Pentachlorophenol	87-86-5	N.D.	1	5	1
04678	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
04678	Phenol	108-95-2	N.D.	0.5	1	1
04678	Pyrene	129-00-0	N.D.	0.1	0.5	1
04678	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1
The LCS/LCSD surrogate(s) recovery is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.						
Metals Dissolved SW-846 6010B						
01743	Aluminum	7429-90-5	N.D.	0.0674	0.200	1
07044	Antimony	7440-36-0	N.D.	0.0051	0.0200	1
07035	Arsenic	7440-38-2	N.D.	0.0072	0.0200	1
07046	Barium	7440-39-3	0.169	0.00033	0.0050	1
07047	Beryllium	7440-41-7	N.D.	0.00067	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00033	0.0050	1
01750	Calcium	7440-70-2	97.2	0.0334	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0013	0.0150	1
07052	Cobalt	7440-48-4	N.D.	0.0010	0.0050	1
07053	Copper	7440-50-8	N.D.	0.0028	0.0100	1
01754	Iron	7439-89-6	N.D.	0.0334	0.200	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	23.4	0.0167	0.100	1
07058	Manganese	7439-96-5	0.0112	0.00083	0.0050	1
07061	Nickel	7440-02-0	N.D.	0.0016	0.0100	1
01762	Potassium	7440-09-7	2.28	0.133	0.500	1
07036	Selenium	7782-49-2	N.D.	0.0048	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0018	0.0050	1
01767	Sodium	7440-23-5	22.0	0.167	1.00	1
07022	Thallium	7440-28-0	N.D.	0.0051	0.0300	1
07071	Vanadium	7440-62-2	0.0037 J	0.0019	0.0050	1
07072	Zinc	7440-66-6	0.0039 J	0.0020	0.0200	1
SW-846 7470A						
00259	Mercury Water	7439-97-6	N.D.	0.000060	0.00020	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-9D-LOWER Grab Groundwater
1-263

LL Sample # WW 7521625
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 13:30 by BB

PA Dept. of Env. Protection

Rachel Carson Off Bldg 14th Fl

Submitted: 07/03/2014 14:46

PO Box 8471

Reported: 07/14/2014 15:15

Harrisburg PA 17105-8471

P9507 SDG#: PDW95-07

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.
This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL purge	1	I141891AA	07/08/2014 13:35	Jason M Long	1
00527	19.5 1,4-Dioxane 8260B SIM	SW-846 8260B SIM	1	E141882AA	07/07/2014 21:39	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141882AA	07/07/2014 21:39	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I141891AA	07/08/2014 13:35	Jason M Long	1
04678	8.37 TCL Semivolatiles/Waters	SW-846 8270C	1	14186WAE026	07/10/2014 21:51	Chad A Moline	1
00813	BNA Water Extraction	SW-846 3510C	1	14186WAE026	07/07/2014 09:30	Anna E Stager	1
01743	Aluminum	SW-846 6010B	1	141891848004	07/10/2014 13:08	Joanne M Gates	1
07044	Antimony	SW-846 6010B	1	141891848004	07/10/2014 13:08	Joanne M Gates	1
07035	Arsenic	SW-846 6010B	1	141891848004	07/10/2014 13:08	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	141891848004	07/10/2014 13:08	Joanne M Gates	1
07047	Beryllium	SW-846 6010B	1	141891848004	07/10/2014 13:08	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	141891848004	07/10/2014 13:08	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	141891848004	07/10/2014 13:08	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	141891848004	07/10/2014 13:08	Joanne M Gates	1
07052	Cobalt	SW-846 6010B	1	141891848004	07/10/2014 13:08	Joanne M Gates	1
07053	Copper	SW-846 6010B	1	141891848004	07/10/2014 13:08	Joanne M Gates	1
01754	Iron	SW-846 6010B	1	141891848004	07/10/2014 13:08	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	141891848004	07/10/2014 13:08	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	141891848004	07/10/2014 13:08	Joanne M Gates	1
07058	Manganese	SW-846 6010B	1	141891848004	07/10/2014 13:08	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	141891848004	07/10/2014 13:08	Joanne M Gates	1
01762	Potassium	SW-846 6010B	1	141891848004	07/10/2014 13:08	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	141891848004	07/10/2014 13:08	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	141891848004	07/10/2014 13:08	Joanne M Gates	1
01767	Sodium	SW-846 6010B	1	141891848004	07/10/2014 13:08	Joanne M Gates	1
07022	Thallium	SW-846 6010B	1	141891848004	07/10/2014 18:57	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	141891848004	07/10/2014 13:08	Joanne M Gates	1
07072	Zinc	SW-846 6010B	1	141891848004	07/10/2014 13:08	Joanne M Gates	1
00259	Mercury Water	SW-846 7470A	1	141895713009	07/12/2014 18:55	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	141891848004	07/09/2014 11:11	Micaela L Dishong	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	141895713009	07/10/2014 10:26	James L Mertz	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-9D-UPPER Grab Groundwater
1-263

LL Sample # WW 7521626
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 15:50 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/14/2014 15:15

PO Box 8471

Harrisburg PA 17105-8471

P9508 SDG#: PDW95-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	N.D.	0.5	2.0	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
04678	Anthracene	120-12-7	N.D.	0.1	0.5	1
04678	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
04678	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
04678	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
04678	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
04678	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-9D-UPPER Grab Groundwater
1-263

LL Sample # WW 7521626

LL Group # 1486636

Account # 06195

Project Name: 1-263

Collected: 07/01/2014 15:50 by BB

PA Dept. of Env. Protection

Rachel Carson Off Bldg 14th Fl

Submitted: 07/03/2014 14:46

PO Box 8471

Reported: 07/14/2014 15:15

Harrisburg PA 17105-8471

P9508 SDG#: PDW95-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
04678	Carbazole	86-74-8	N.D.	0.5	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.5	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
04678	Chrysene	218-01-9	N.D.	0.1	0.5	1
04678	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
04678	Dibenzofuran	132-64-9	N.D.	0.5	1	1
04678	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	1	1
04678	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1	1
04678	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	5	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	5	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	10	30	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
04678	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
04678	Fluorene	86-73-7	N.D.	0.1	0.5	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
04678	Hexachloroethane	67-72-1	N.D.	1	5	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
04678	Isophorone	78-59-1	N.D.	0.5	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
04678	2-Methylphenol	95-48-7	N.D.	0.5	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.5	1	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04678	Naphthalene	91-20-3	N.D.	0.1	0.5	1
04678	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.5	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
04678	4-Nitrophenol	100-02-7	N.D.	10	30	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-9D-UPPER Grab Groundwater
1-263

LL Sample # WW 7521626
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 15:50 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/14/2014 15:15

PO Box 8471

Harrisburg PA 17105-8471

P9508 SDG#: PDW95-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04678	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
04678	Pentachlorophenol	87-86-5	N.D.	1	5	1
04678	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
04678	Phenol	108-95-2	N.D.	0.5	1	1
04678	Pyrene	129-00-0	N.D.	0.1	0.5	1
04678	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1
The LCS/LCSD surrogate(s) recovery is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.						
Metals Dissolved	SW-846 6010B		mg/l	mg/l	mg/l	
01743	Aluminum	7429-90-5	N.D.	0.0674	0.200	1
07044	Antimony	7440-36-0	N.D.	0.0051	0.0200	1
07035	Arsenic	7440-38-2	N.D.	0.0072	0.0200	1
07046	Barium	7440-39-3	0.0133	0.00033	0.0050	1
07047	Beryllium	7440-41-7	N.D.	0.00067	0.0050	1
07049	Cadmium	7440-43-9	N.D.	0.00033	0.0050	1
01750	Calcium	7440-70-2	123	0.0334	0.200	1
07051	Chromium	7440-47-3	N.D.	0.0013	0.0150	1
07052	Cobalt	7440-48-4	N.D.	0.0010	0.0050	1
07053	Copper	7440-50-8	N.D.	0.0028	0.0100	1
01754	Iron	7439-89-6	N.D.	0.0334	0.200	1
07055	Lead	7439-92-1	N.D.	0.0047	0.0150	1
01757	Magnesium	7439-95-4	31.2	0.0167	0.100	1
07058	Manganese	7439-96-5	0.0022 J	0.00083	0.0050	1
07061	Nickel	7440-02-0	N.D.	0.0016	0.0100	1
01762	Potassium	7440-09-7	3.85	0.133	0.500	1
07036	Selenium	7782-49-2	N.D.	0.0048	0.0200	1
07066	Silver	7440-22-4	N.D.	0.0018	0.0050	1
01767	Sodium	7440-23-5	23.4	0.167	1.00	1
07022	Thallium	7440-28-0	N.D.	0.0051	0.0300	1
07071	Vanadium	7440-62-2	N.D.	0.0019	0.0050	1
07072	Zinc	7440-66-6	N.D.	0.0020	0.0200	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury Water	7439-97-6	N.D.	0.000060	0.00020	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-9D-UPPER Grab Groundwater
1-263

LL Sample # WW 7521626
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 15:50 by BB

PA Dept. of Env. Protection

Rachel Carson Off Bldg 14th Fl

Submitted: 07/03/2014 14:46

PO Box 8471

Reported: 07/14/2014 15:15

Harrisburg PA 17105-8471

P9508 SDG#: PDW95-08

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.
This sample was field filtered for dissolved metals.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL	1	I141891AA	07/08/2014 13:57	Jason M Long	1
00527	19.5 1,4-Dioxane 8260B SIM	SW-846 8260B SIM	1	E141881AA	07/07/2014 14:53	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141881AA	07/07/2014 14:53	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I141891AA	07/08/2014 13:57	Jason M Long	1
04678	8.37 TCL Semivolatiles/Waters	SW-846 8270C	1	14186WAE026	07/10/2014 22:19	Chad A Moline	1
00813	BNA Water Extraction	SW-846 3510C	1	14186WAE026	07/07/2014 09:30	Anna E Stager	1
01743	Aluminum	SW-846 6010B	1	141891848004	07/10/2014 13:29	Joanne M Gates	1
07044	Antimony	SW-846 6010B	1	141891848004	07/10/2014 13:29	Joanne M Gates	1
07035	Arsenic	SW-846 6010B	1	141891848004	07/10/2014 13:29	Joanne M Gates	1
07046	Barium	SW-846 6010B	1	141891848004	07/10/2014 13:29	Joanne M Gates	1
07047	Beryllium	SW-846 6010B	1	141891848004	07/10/2014 13:29	Joanne M Gates	1
07049	Cadmium	SW-846 6010B	1	141891848004	07/10/2014 13:29	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	141891848004	07/10/2014 13:29	Joanne M Gates	1
07051	Chromium	SW-846 6010B	1	141891848004	07/10/2014 13:29	Joanne M Gates	1
07052	Cobalt	SW-846 6010B	1	141891848004	07/10/2014 13:29	Joanne M Gates	1
07053	Copper	SW-846 6010B	1	141891848004	07/10/2014 13:29	Joanne M Gates	1
01754	Iron	SW-846 6010B	1	141891848004	07/10/2014 13:29	Joanne M Gates	1
07055	Lead	SW-846 6010B	1	141891848004	07/10/2014 13:29	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	141891848004	07/10/2014 13:29	Joanne M Gates	1
07058	Manganese	SW-846 6010B	1	141891848004	07/10/2014 13:29	Joanne M Gates	1
07061	Nickel	SW-846 6010B	1	141891848004	07/10/2014 13:29	Joanne M Gates	1
01762	Potassium	SW-846 6010B	1	141891848004	07/10/2014 13:29	Joanne M Gates	1
07036	Selenium	SW-846 6010B	1	141891848004	07/10/2014 13:29	Joanne M Gates	1
07066	Silver	SW-846 6010B	1	141891848004	07/10/2014 13:29	Joanne M Gates	1
01767	Sodium	SW-846 6010B	1	141891848004	07/10/2014 13:29	Joanne M Gates	1
07022	Thallium	SW-846 6010B	1	141891848004	07/10/2014 19:19	Katlin N Cataldi	1
07071	Vanadium	SW-846 6010B	1	141891848004	07/10/2014 13:29	Joanne M Gates	1
07072	Zinc	SW-846 6010B	1	141891848004	07/10/2014 13:29	Joanne M Gates	1
00259	Mercury Water	SW-846 7470A	1	141895713009	07/12/2014 18:57	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	141891848004	07/09/2014 11:11	Micaela L Dishong	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	141895713009	07/10/2014 10:26	James L Mertz	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-8D-LOWER Grab Groundwater
1-263

LL Sample # WW 7521627
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 13:55 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/14/2014 15:15

PO Box 8471

Harrisburg PA 17105-8471

P9509 SDG#: PDW95-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	7.5	3.0	5.0	1
02898	Benzene	71-43-2	2.3	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	30	2.0	10	20
02898	Chloroethane	75-00-3	2.3	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	24	2.0	10	20
02898	1,2-Dichloroethane	107-06-2	0.5	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	18	2.0	10	20
02898	cis-1,2-Dichloroethene	156-59-2	140	2.0	10	20
02898	trans-1,2-Dichloroethene	156-60-5	1.6	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	0.2 J	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	0.2 J	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.1 J	0.1	0.5	1
02898	Toluene	108-88-3	2.2	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	16	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	0.1 J	0.1	0.5	1
02898	Trichloroethene	79-01-6	86	2.0	10	20
02898	Vinyl Chloride	75-01-4	3.8	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	13	0.5	2.0	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
04678	Anthracene	120-12-7	N.D.	0.1	0.5	1
04678	Benzo(a)anthracene	56-55-3	0.3 J	0.1	0.5	1
04678	Benzo(a)pyrene	50-32-8	0.4 J	0.1	0.5	1
04678	Benzo(b)fluoranthene	205-99-2	0.4 J	0.1	0.5	1
04678	Benzo(g,h,i)perylene	191-24-2	0.2 J	0.1	0.5	1
04678	Benzo(k)fluoranthene	207-08-9	0.2 J	0.1	0.5	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-8D-LOWER Grab Groundwater
1-263

LL Sample # WW 7521627
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 13:55 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/14/2014 15:15

PO Box 8471

Harrisburg PA 17105-8471

P9509 SDG#: PDW95-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
04678	Carbazole	86-74-8	N.D.	0.5	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.5	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
04678	Chrysene	218-01-9	0.4 J	0.1	0.5	1
04678	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
04678	Dibenzofuran	132-64-9	N.D.	0.5	1	1
04678	1,2-Dichlorobenzene	95-50-1	33	0.5	1	1
04678	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1	1
04678	1,4-Dichlorobenzene	106-46-7	5	0.5	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	5	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	5	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	10	31	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
04678	Fluoranthene	206-44-0	0.7	0.1	0.5	1
04678	Fluorene	86-73-7	N.D.	0.1	0.5	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
04678	Hexachloroethane	67-72-1	N.D.	1	5	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	0.2 J	0.1	0.5	1
04678	Isophorone	78-59-1	0.5 J	0.5	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
04678	2-Methylphenol	95-48-7	N.D.	0.5	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04678	Naphthalene	91-20-3	N.D.	0.1	0.5	1
04678	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.5	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
04678	4-Nitrophenol	100-02-7	N.D.	10	31	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-8D-LOWER Grab Groundwater
1-263

LL Sample # WW 7521627
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 13:55 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/14/2014 15:15

PO Box 8471

Harrisburg PA 17105-8471

P9509 SDG#: PDW95-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04678	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
04678	Pentachlorophenol	87-86-5	N.D.	1	5	1
04678	Phenanthrene	85-01-8	0.3 J	0.1	0.5	1
04678	Phenol	108-95-2	N.D.	0.5	1	1
04678	Pyrene	129-00-0	0.7	0.1	0.5	1
04678	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1

The LCS/LCSD surrogate(s) recovery is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL	1	I141891AA	07/08/2014 15:24	Jason M Long	1
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL	1	I141891AA	07/08/2014 15:46	Jason M Long	20
00527	19.5 1,4-Dioxane 8260B SIM	SW-846 8260B SIM	1	E141881AA	07/07/2014 15:15	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141881AA	07/07/2014 15:15	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I141891AA	07/08/2014 15:24	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	3	I141891AA	07/08/2014 15:46	Jason M Long	20
04678	8.37 TCL Semivolatiles/Waters	SW-846 8270C	1	14186WAE026	07/10/2014 22:47	Chad A Moline	1
00813	BNA Water Extraction	SW-846 3510C	1	14186WAE026	07/07/2014 09:30	Anna E Stager	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-8D-UPPER Grab Groundwater
1-263

LL Sample # WW 7521628
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 15:00 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/14/2014 15:15

PO Box 8471

Harrisburg PA 17105-8471

P9510 SDG#: PDW95-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	60	100	20
02898	Benzene	71-43-2	12	2.0	10	20
02898	Bromodichloromethane	75-27-4	N.D.	2.0	10	20
02898	Bromoform	75-25-2	N.D.	2.0	10	20
02898	Bromomethane	74-83-9	N.D.	2.0	10	20
02898	2-Butanone	78-93-3	N.D.	20	100	20
02898	Carbon Disulfide	75-15-0	N.D.	8.0	10	20
02898	Carbon Tetrachloride	56-23-5	N.D.	2.0	10	20
02898	Chlorobenzene	108-90-7	1,000	50	250	500
02898	Chloroethane	75-00-3	16	2.0	10	20
02898	Chloroform	67-66-3	N.D.	2.0	10	20
02898	Chloromethane	74-87-3	N.D.	4.0	10	20
02898	Dibromochloromethane	124-48-1	N.D.	2.0	10	20
02898	1,1-Dichloroethane	75-34-3	70	2.0	10	20
02898	1,2-Dichloroethane	107-06-2	N.D.	2.0	10	20
02898	1,1-Dichloroethene	75-35-4	32	2.0	10	20
02898	cis-1,2-Dichloroethene	156-59-2	480	50	250	500
02898	trans-1,2-Dichloroethene	156-60-5	6.4 J	2.0	10	20
02898	1,2-Dichloropropane	78-87-5	N.D.	2.0	10	20
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	2.0	10	20
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	2.0	10	20
02898	Ethylbenzene	100-41-4	N.D.	2.0	10	20
02898	2-Hexanone	591-78-6	N.D.	20	100	20
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	20	100	20
02898	Methylene Chloride	75-09-2	N.D.	4.0	10	20
02898	Styrene	100-42-5	N.D.	2.0	10	20
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	2.0	10	20
02898	Tetrachloroethene	127-18-4	N.D.	2.0	10	20
02898	Toluene	108-88-3	N.D.	2.0	10	20
02898	1,1,1-Trichloroethane	71-55-6	22	2.0	10	20
02898	1,1,2-Trichloroethane	79-00-5	N.D.	2.0	10	20
02898	Trichloroethene	79-01-6	150	2.0	10	20
02898	Vinyl Chloride	75-01-4	34	2.0	10	20
02898	Xylene (Total)	1330-20-7	N.D.	2.0	10	20
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	40	5.0	20	10
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	0.2 J	0.1	0.5	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
04678	Anthracene	120-12-7	0.5 J	0.1	0.5	1
04678	Benzo(a)anthracene	56-55-3	2	0.1	0.5	1
04678	Benzo(a)pyrene	50-32-8	2	0.1	0.5	1
04678	Benzo(b)fluoranthene	205-99-2	2	0.1	0.5	1
04678	Benzo(g,h,i)perylene	191-24-2	0.9	0.1	0.5	1
04678	Benzo(k)fluoranthene	207-08-9	0.9	0.1	0.5	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-8D-UPPER Grab Groundwater
1-263

LL Sample # WW 7521628
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 15:00 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/14/2014 15:15

PO Box 8471

Harrisburg PA 17105-8471

P9510 SDG#: PDW95-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
04678	Carbazole	86-74-8	N.D.	0.5	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.5	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	2	0.5	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
04678	Chrysene	218-01-9	2	0.1	0.5	1
04678	Dibenz(a,h)anthracene	53-70-3	0.2 J	0.1	0.5	1
04678	Dibenzofuran	132-64-9	N.D.	0.5	1	1
04678	1,2-Dichlorobenzene	95-50-1	1,200	11	21	20
04678	1,3-Dichlorobenzene	541-73-1	7	0.5	1	1
04678	1,4-Dichlorobenzene	106-46-7	160	11	21	20
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	5	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	5	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	16	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	11	32	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
04678	Fluoranthene	206-44-0	3	0.1	0.5	1
04678	Fluorene	86-73-7	0.1 J	0.1	0.5	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	5	16	1
04678	Hexachloroethane	67-72-1	N.D.	1	5	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	0.9	0.1	0.5	1
04678	Isophorone	78-59-1	N.D.	0.5	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
04678	2-Methylphenol	95-48-7	N.D.	0.5	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04678	Naphthalene	91-20-3	N.D.	0.1	0.5	1
04678	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.5	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
04678	4-Nitrophenol	100-02-7	N.D.	11	32	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-8D-UPPER Grab Groundwater
1-263

LL Sample # WW 7521628
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 15:00 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/14/2014 15:15

PO Box 8471

Harrisburg PA 17105-8471

P9510 SDG#: PDW95-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04678	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
04678	Pentachlorophenol	87-86-5	N.D.	1	5	1
04678	Phenanthrene	85-01-8	2	0.1	0.5	1
04678	Phenol	108-95-2	N.D.	0.5	1	1
04678	Pyrene	129-00-0	3	0.1	0.5	1
04678	1,2,4-Trichlorobenzene	120-82-1	6	0.5	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1
The LCS/LCSD surrogate(s) recovery is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.						

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL	1	I141891AA	07/08/2014 17:15	Jason M Long	500
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL	1	C141901AA	07/09/2014 18:08	Jason M Long	20
00527	19.5 1,4-Dioxane 8260B SIM	SW-846 8260B SIM	1	E141881AA	07/07/2014 17:40	Jason M Long	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141881AA	07/07/2014 17:40	Jason M Long	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I141891AA	07/08/2014 17:15	Jason M Long	500
01163	GC/MS VOA Water Prep	SW-846 5030B	3	C141901AA	07/09/2014 18:08	Jason M Long	20
04678	8.37 TCL Semivolatiles/Waters	SW-846 8270C	1	14186WAE026	07/10/2014 23:16	Chad A Moline	1
04678	8.37 TCL Semivolatiles/Waters	SW-846 8270C	1	14186WAE026	07/11/2014 01:10	Chad A Moline	20
00813	BNA Water Extraction	SW-846 3510C	1	14186WAE026	07/07/2014 09:30	Anna E Stager	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-12 Grab Groundwater
1-263

LL Sample # WW 7521629
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 15:30 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/14/2014 15:15

PO Box 8471

Harrisburg PA 17105-8471

P9511 SDG#: PDW95-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	5.6	3.0	5.0	1
02898	Benzene	71-43-2	0.5 J	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	3.9	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	2.2	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.2 J	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	24	1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	0.5	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	5.4	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	2.7	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	6.8	0.5	2.0	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	0.1 J	0.1	0.5	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
04678	Anthracene	120-12-7	0.2 J	0.1	0.5	1
04678	Benzo(a)anthracene	56-55-3	1	0.1	0.5	1
04678	Benzo(a)pyrene	50-32-8	2	0.1	0.5	1
04678	Benzo(b)fluoranthene	205-99-2	2	0.1	0.5	1
04678	Benzo(g,h,i)perylene	191-24-2	1	0.1	0.5	1
04678	Benzo(k)fluoranthene	207-08-9	0.9	0.1	0.5	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-12 Grab Groundwater
1-263

LL Sample # WW 7521629
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 15:30 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/14/2014 15:15

PO Box 8471

Harrisburg PA 17105-8471

P9511 SDG#: PDW95-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
04678	Carbazole	86-74-8	N.D.	0.5	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.5	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
04678	Chrysene	218-01-9	2	0.1	0.5	1
04678	Dibenz(a,h)anthracene	53-70-3	0.3 J	0.1	0.5	1
04678	Dibenzofuran	132-64-9	N.D.	0.5	1	1
04678	1,2-Dichlorobenzene	95-50-1	21	0.5	1	1
04678	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1	1
04678	1,4-Dichlorobenzene	106-46-7	4	0.5	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	5	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	5	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	16	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	11	32	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
04678	Fluoranthene	206-44-0	3	0.1	0.5	1
04678	Fluorene	86-73-7	N.D.	0.1	0.5	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	5	16	1
04678	Hexachloroethane	67-72-1	N.D.	1	5	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	1	0.1	0.5	1
04678	Isophorone	78-59-1	N.D.	0.5	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
04678	2-Methylphenol	95-48-7	N.D.	0.5	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04678	Naphthalene	91-20-3	N.D.	0.1	0.5	1
04678	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.5	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
04678	4-Nitrophenol	100-02-7	N.D.	11	32	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-12 Grab Groundwater
1-263

LL Sample # WW 7521629
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 15:30 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/14/2014 15:15

PO Box 8471

Harrisburg PA 17105-8471

P9511 SDG#: PDW95-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04678	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
04678	Pentachlorophenol	87-86-5	N.D.	1	5	1
04678	Phenanthrene	85-01-8	1	0.1	0.5	1
04678	Phenol	108-95-2	N.D.	0.5	1	1
04678	Pyrene	129-00-0	2	0.1	0.5	1
04678	1,2,4-Trichlorobenzene	120-82-1	1 J	0.5	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1

The LCS/LCSD surrogate(s) recovery is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL	1	I141891AA	07/08/2014 14:18	Jason M Long	1
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL	1	C141891AA	07/08/2014 21:31	Kevin A Sposito	10
00527	19.5 1,4-Dioxane 8260B SIM	SW-846 8260B SIM	1	E141881AA	07/07/2014 15:36	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141881AA	07/07/2014 15:36	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I141891AA	07/08/2014 14:18	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	3	C141891AA	07/08/2014 21:31	Kevin A Sposito	10
04678	8.37 TCL Semivolatiles/Waters	SW-846 8270C	1	14186WAE026	07/10/2014 23:44	Chad A Moline	1
00813	BNA Water Extraction	SW-846 3510C	1	14186WAE026	07/07/2014 09:30	Anna E Stager	1

*=This limit was used in the evaluation of the final result

Sample Description: Duplicate-2 Grab Groundwater
1-263

LL Sample # WW 7521630
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 12:00 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/14/2014 15:15

PO Box 8471

Harrisburg PA 17105-8471

P9512 SDG#: PDW95-12FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	1.0	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	31	2.0	10	20
02898	Chloroethane	75-00-3	0.6	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	170	2.0	10	20
02898	1,2-Dichloroethane	107-06-2	0.9	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	38	2.0	10	20
02898	cis-1,2-Dichloroethene	156-59-2	30	2.0	10	20
02898	trans-1,2-Dichloroethene	156-60-5	0.6	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	0.4 J	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	0.3 J	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.4 J	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	1.5	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	0.3 J	0.1	0.5	1
02898	Trichloroethene	79-01-6	100	2.0	10	20
02898	Vinyl Chloride	75-01-4	2.6	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	250	13	50	25
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
04678	Anthracene	120-12-7	N.D.	0.1	0.5	1
04678	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
04678	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
04678	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
04678	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
04678	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: Duplicate-2 Grab Groundwater
1-263

LL Sample # WW 7521630
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 12:00 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/14/2014 15:15

PO Box 8471

Harrisburg PA 17105-8471

P9512 SDG#: PDW95-12FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
04678	Carbazole	86-74-8	N.D.	0.5	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.5	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
04678	Chrysene	218-01-9	N.D.	0.1	0.5	1
04678	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
04678	Dibenzofuran	132-64-9	N.D.	0.5	1	1
04678	1,2-Dichlorobenzene	95-50-1	32	0.5	1	1
04678	1,3-Dichlorobenzene	541-73-1	4	0.5	1	1
04678	1,4-Dichlorobenzene	106-46-7	6	0.5	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	5	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	5	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	10	30	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
04678	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
04678	Fluorene	86-73-7	N.D.	0.1	0.5	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
04678	Hexachloroethane	67-72-1	N.D.	1	5	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
04678	Isophorone	78-59-1	N.D.	0.5	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
04678	2-Methylphenol	95-48-7	N.D.	0.5	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04678	Naphthalene	91-20-3	N.D.	0.1	0.5	1
04678	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.5	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
04678	4-Nitrophenol	100-02-7	N.D.	10	30	1

*=This limit was used in the evaluation of the final result

Sample Description: Duplicate-2 Grab Groundwater
1-263

LL Sample # WW 7521630
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 12:00 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/14/2014 15:15

PO Box 8471

Harrisburg PA 17105-8471

P9512 SDG#: PDW95-12FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04678	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
04678	Pentachlorophenol	87-86-5	N.D.	1	5	1
04678	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
04678	Phenol	108-95-2	N.D.	0.5	1	1
04678	Pyrene	129-00-0	N.D.	0.1	0.5	1
04678	1,2,4-Trichlorobenzene	120-82-1	2	0.5	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1

The LCS/LCSD surrogate(s) recovery is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL	1	I141891AA	07/08/2014 16:08	Jason M Long	1
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL	1	I141891AA	07/08/2014 16:31	Jason M Long	20
00527	19.5 1,4-Dioxane 8260B SIM	SW-846 8260B SIM	1	E141882AA	07/07/2014 22:40	Sara E Johnson	25
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141882AA	07/07/2014 22:40	Sara E Johnson	25
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I141891AA	07/08/2014 16:08	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	3	I141891AA	07/08/2014 16:31	Jason M Long	20
04678	8.37 TCL Semivolatiles/Waters	SW-846 8270C	1	14186WAE026	07/11/2014 00:13	Chad A Moline	1
00813	BNA Water Extraction	SW-846 3510C	1	14186WAE026	07/07/2014 09:30	Anna E Stager	1

*=This limit was used in the evaluation of the final result

Sample Description: Rinsate-2 Grab Water
1-263

LL Sample # WW 7521631
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 14:00 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/14/2014 15:15

PO Box 8471

Harrisburg PA 17105-8471

P9513 SDG#: PDW95-13RB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	N.D.	0.5	2.0	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
04678	Anthracene	120-12-7	N.D.	0.1	0.5	1
04678	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
04678	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
04678	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
04678	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
04678	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: Rinsate-2 Grab Water
1-263

LL Sample # WW 7521631
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 14:00 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/14/2014 15:15

PO Box 8471

Harrisburg PA 17105-8471

P9513 SDG#: PDW95-13RB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
04678	Carbazole	86-74-8	N.D.	0.5	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.5	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
04678	Chrysene	218-01-9	N.D.	0.1	0.5	1
04678	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
04678	Dibenzofuran	132-64-9	N.D.	0.5	1	1
04678	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	1	1
04678	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1	1
04678	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	5	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	5	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	10	30	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
04678	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
04678	Fluorene	86-73-7	N.D.	0.1	0.5	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
04678	Hexachloroethane	67-72-1	N.D.	1	5	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
04678	Isophorone	78-59-1	N.D.	0.5	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
04678	2-Methylphenol	95-48-7	N.D.	0.5	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04678	Naphthalene	91-20-3	N.D.	0.1	0.5	1
04678	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.5	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
04678	4-Nitrophenol	100-02-7	N.D.	10	30	1

*=This limit was used in the evaluation of the final result

Sample Description: Rinsate-2 Grab Water
1-263

LL Sample # WW 7521631
LL Group # 1486636
Account # 06195

Project Name: 1-263

Collected: 07/01/2014 14:00 by BB

PA Dept. of Env. Protection

Rachel Carson Off Bldg 14th Fl

Submitted: 07/03/2014 14:46

PO Box 8471

Reported: 07/14/2014 15:15

Harrisburg PA 17105-8471

P9513 SDG#: PDW95-13RB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04678	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
04678	Pentachlorophenol	87-86-5	N.D.	1	5	1
04678	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
04678	Phenol	108-95-2	N.D.	0.5	1	1
04678	Pyrene	129-00-0	N.D.	0.1	0.5	1
04678	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1

The LCS/LCSD surrogate(s) recovery is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken:
The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL	1	I141891AA	07/08/2014 11:21	Jason M Long	1
		purge					
00527	19.5 1,4-Dioxane 8260B	SW-846 8260B SIM	1	E141881AA	07/07/2014 11:47	Jason M Long	1
	SIM						
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141881AA	07/07/2014 11:47	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I141891AA	07/08/2014 11:21	Jason M Long	1
04678	8.37 TCL	SW-846 8270C	1	14186WAE026	07/11/2014 00:42	Chad A Moline	1
	Semivolatiles/Waters						
00813	BNA Water Extraction	SW-846 3510C	1	14186WAE026	07/07/2014 09:30	Anna E Stager	1

*=This limit was used in the evaluation of the final result

Quality Control SummaryClient Name: PA Dept. of Env. Protection
Reported: 07/14/14 at 03:15 PM

Group Number: 1486636

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: C141891AA	Sample number(s): 7521629								
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	105	104	80-120	0	30
Batch number: C141901AA	Sample number(s): 7521628								
Acetone	N.D.	3.0	5.0	ug/l	99	104	60-139	5	30
Benzene	N.D.	0.1	0.5	ug/l	100	100	80-120	0	30
Bromodichloromethane	N.D.	0.1	0.5	ug/l	113	114	80-120	1	30
Bromoform	N.D.	0.1	0.5	ug/l	111	111	72-138	1	30
Bromomethane	N.D.	0.1	0.5	ug/l	111	110	62-126	1	30
2-Butanone	N.D.	1.0	5.0	ug/l	95	101	63-137	5	30
Carbon Disulfide	N.D.	0.4	0.5	ug/l	108	107	80-120	1	30
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	119	118	80-135	1	30
Chloroethane	N.D.	0.1	0.5	ug/l	110	110	68-120	1	30
Chloroform	N.D.	0.1	0.5	ug/l	108	107	80-120	1	30
Chloromethane	N.D.	0.2	0.5	ug/l	114	114	55-120	0	30
Dibromochloromethane	N.D.	0.1	0.5	ug/l	119	119	80-126	0	30
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	105	104	80-120	1	30
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	115	115	80-127	0	30
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	102	101	80-123	1	30
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	106	104	80-120	2	30
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	103	103	80-120	0	30
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	108	109	80-120	1	30
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	117	115	80-120	2	30
Ethylbenzene	N.D.	0.1	0.5	ug/l	102	102	80-120	0	30
2-Hexanone	N.D.	1.0	5.0	ug/l	104	107	62-128	3	30
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	102	104	69-135	1	30
Methylene Chloride	N.D.	0.2	0.5	ug/l	97	95	80-120	2	30
Styrene	N.D.	0.1	0.5	ug/l	103	103	80-120	0	30
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	100	100	80-120	0	30
Tetrachloroethene	N.D.	0.1	0.5	ug/l	103	102	80-120	1	30
Toluene	N.D.	0.1	0.5	ug/l	101	101	80-120	0	30
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	113	110	80-120	2	30
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	102	102	80-120	1	30
Trichloroethene	N.D.	0.1	0.5	ug/l	105	104	80-120	1	30
Vinyl Chloride	N.D.	0.1	0.5	ug/l	115	114	59-124	1	30
Xylene (Total)	N.D.	0.1	0.5	ug/l	102	102	80-120	0	30
Batch number: E141881AA	Sample number(s): 7521619-7521623, 7521626-7521629, 7521631								
1,4-Dioxane	N.D.	0.5	2.0	ug/l	106	109	80-123	3	30
Batch number: E141882AA	Sample number(s): 7521624-7521625, 7521630								
1,4-Dioxane	N.D.	0.5	2.0	ug/l	103	104	80-123	1	30
Batch number: I141891AA	Sample number(s): 7521619-7521631								

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control SummaryClient Name: PA Dept. of Env. Protection
Reported: 07/14/14 at 03:15 PM

Group Number: 1486636

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Acetone	N.D.	3.0	5.0	ug/l	110	109	60-139	0	30
Benzene	N.D.	0.1	0.5	ug/l	95	96	80-120	1	30
Bromodichloromethane	N.D.	0.1	0.5	ug/l	103	103	80-120	0	30
Bromoform	N.D.	0.1	0.5	ug/l	102	101	72-138	1	30
Bromomethane	N.D.	0.1	0.5	ug/l	110	110	62-126	0	30
2-Butanone	N.D.	1.0	5.0	ug/l	99	100	63-137	1	30
Carbon Disulfide	N.D.	0.4	0.5	ug/l	94	95	80-120	0	30
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	105	105	80-135	0	30
Chlorobenzene	N.D.	0.1	0.5	ug/l	98	97	80-120	0	30
Chloroethane	N.D.	0.1	0.5	ug/l	100	100	68-120	0	30
Chloroform	N.D.	0.1	0.5	ug/l	99	100	80-120	1	30
Chloromethane	N.D.	0.2	0.5	ug/l	107	107	55-120	0	30
Dibromochloromethane	N.D.	0.1	0.5	ug/l	102	102	80-126	0	30
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	91	92	80-120	1	30
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	96	97	80-127	0	30
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	97	98	80-123	1	30
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	97	98	80-120	1	30
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	99	100	80-120	1	30
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	94	96	80-120	1	30
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	92	94	80-120	3	30
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	102	104	80-120	1	30
Ethylbenzene	N.D.	0.1	0.5	ug/l	96	96	80-120	0	30
2-Hexanone	N.D.	1.0	5.0	ug/l	97	98	62-128	2	30
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	94	96	69-135	2	30
Methylene Chloride	N.D.	0.2	0.5	ug/l	101	101	80-120	0	30
Styrene	N.D.	0.1	0.5	ug/l	105	104	80-120	1	30
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	106	108	80-120	2	30
Tetrachloroethene	N.D.	0.1	0.5	ug/l	93	93	80-120	0	30
Toluene	N.D.	0.1	0.5	ug/l	98	98	80-120	0	30
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	99	99	80-120	0	30
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	104	105	80-120	0	30
Trichloroethene	N.D.	0.1	0.5	ug/l	97	98	80-120	1	30
Vinyl Chloride	N.D.	0.1	0.5	ug/l	106	108	59-124	1	30
Xylene (Total)	N.D.	0.1	0.5	ug/l	98	97	80-120	0	30
Batch number: 14186WAE026 Sample number(s): 7521619-7521631									
Acenaphthene	N.D.	0.1	0.5	ug/l	92	88	80-112	5	30
Acenaphthylene	N.D.	0.1	0.5	ug/l	104	97	84-125	6	30
Anthracene	N.D.	0.1	0.5	ug/l	94	89	82-116	5	30
Benzo(a)anthracene	N.D.	0.1	0.5	ug/l	93	89	81-126	5	30
Benzo(a)pyrene	N.D.	0.1	0.5	ug/l	90	83	82-116	7	30
Benzo(b)fluoranthene	N.D.	0.1	0.5	ug/l	92	87	82-121	6	30
Benzo(g,h,i)perylene	N.D.	0.1	0.5	ug/l	91	86	76-128	6	30
Benzo(k)fluoranthene	N.D.	0.1	0.5	ug/l	93	85	81-122	9	30
4-Bromophenyl-phenylether	N.D.	0.5	1	ug/l	88	86	82-118	3	30
Butylbenzylphthalate	N.D.	2.	5	ug/l	93	89	79-119	4	30
Di-n-butylphthalate	N.D.	2.	5	ug/l	92	89	80-119	4	30
Carbazole	N.D.	0.5	1	ug/l	96	95	84-117	1	30
4-Chloro-3-methylphenol	N.D.	0.5	1	ug/l	101	100	80-123	1	30
4-Chloroaniline	N.D.	0.5	1	ug/l	92	84	55-113	9	30
bis(2-Chloroethoxy)methane	N.D.	0.5	1	ug/l	95	96	77-115	1	30
bis(2-Chloroethyl)ether	N.D.	0.5	1	ug/l	91	91	78-112	0	30
2-Chloronaphthalene	N.D.	0.4	1	ug/l	88	84	71-120	4	30
2-Chlorophenol	N.D.	0.5	1	ug/l	93	94	76-111	1	30
4-Chlorophenyl-phenylether	N.D.	0.5	1	ug/l	91	88	77-114	4	30
2,2'-oxybis(1-Chloropropane)	N.D.	0.5	1	ug/l	80	77	60-118	4	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control SummaryClient Name: PA Dept. of Env. Protection
Reported: 07/14/14 at 03:15 PM

Group Number: 1486636

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Chrysene	N.D.	0.1	0.5	ug/l	95	90	81-120	6	30
Dibenz(a,h)anthracene	N.D.	0.1	0.5	ug/l	92	87	83-124	6	30
Dibenzofuran	N.D.	0.5	1	ug/l	91	87	81-110	5	30
1,2-Dichlorobenzene	N.D.	0.5	1	ug/l	93	86	69-107	8	30
1,3-Dichlorobenzene	N.D.	0.5	1	ug/l	89	81	69-107	9	30
1,4-Dichlorobenzene	N.D.	0.5	1	ug/l	90	82	66-111	10	30
3,3'-Dichlorobenzidine	N.D.	2.	5	ug/l	75	67	47-108	11	30
2,4-Dichlorophenol	N.D.	0.5	1	ug/l	98	99	84-119	1	30
Diethylphthalate	N.D.	2.	5	ug/l	95	90	70-118	5	30
2,4-Dimethylphenol	N.D.	0.5	1	ug/l	91	90	81-114	1	30
Dimethylphthalate	N.D.	2.	5	ug/l	94	93	43-128	2	30
4,6-Dinitro-2-methylphenol	N.D.	5.	15	ug/l	91	90	56-145	1	30
2,4-Dinitrophenol	N.D.	10.	30	ug/l	74	76	32-148	2	30
2,4-Dinitrotoluene	N.D.	1.	5	ug/l	103	100	84-126	2	30
2,6-Dinitrotoluene	N.D.	0.5	1	ug/l	101	99	81-124	1	30
bis(2-Ethylhexyl)phthalate	N.D.	2.	5	ug/l	93	91	78-124	2	30
Fluoranthene	N.D.	0.1	0.5	ug/l	93	89	82-121	4	30
Fluorene	N.D.	0.1	0.5	ug/l	93	89	80-117	4	30
Hexachlorobenzene	N.D.	0.1	0.5	ug/l	88	86	80-119	3	30
Hexachlorobutadiene	N.D.	0.5	1	ug/l	89	78	61-120	12	30
Hexachlorocyclopentadiene	N.D.	5.	15	ug/l	71	60	28-133	17	30
Hexachloroethane	N.D.	1.	5	ug/l	89	80	55-109	10	30
Indeno(1,2,3-cd)pyrene	N.D.	0.1	0.5	ug/l	88	83	80-126	6	30
Isophorone	N.D.	0.5	1	ug/l	102	102	82-119	0	30
2-Methylnaphthalene	N.D.	0.1	0.5	ug/l	86	81	75-106	7	30
2-Methylphenol	N.D.	0.5	1	ug/l	95	92	72-111	3	30
4-Methylphenol	N.D.	0.5	1	ug/l	92	90	63-110	2	30
Naphthalene	N.D.	0.1	0.5	ug/l	92	85	75-108	8	30
2-Nitroaniline	N.D.	0.5	1	ug/l	89	91	84-122	3	30
3-Nitroaniline	N.D.	0.5	1	ug/l	88	85	70-118	3	30
4-Nitroaniline	N.D.	0.5	1	ug/l	86	81	66-110	5	30
Nitrobenzene	N.D.	0.5	1	ug/l	95	94	77-119	1	30
2-Nitrophenol	N.D.	0.5	1	ug/l	94	96	81-128	2	30
4-Nitrophenol	N.D.	10.	30	ug/l	60	63	25-95	5	30
N-Nitroso-di-n-propylamine	N.D.	0.5	1	ug/l	97	97	71-117	1	30
N-Nitrosodiphenylamine	N.D.	0.5	1	ug/l	96	93	80-115	4	30
Di-n-octylphthalate	N.D.	2.	5	ug/l	98	92	78-129	6	30
Pentachlorophenol	N.D.	1.	5	ug/l	93	85	54-124	9	30
Phenanthrene	N.D.	0.1	0.5	ug/l	90	88	81-114	3	30
Phenol	N.D.	0.5	1	ug/l	60	57	31-79	5	30
Pyrene	N.D.	0.1	0.5	ug/l	91	85	81-112	6	30
1,2,4-Trichlorobenzene	N.D.	0.5	1	ug/l	88	81	77-111	8	30
2,4,5-Trichlorophenol	N.D.	0.5	1	ug/l	99	99	81-121	0	30
2,4,6-Trichlorophenol	N.D.	0.5	1	ug/l	91	92	84-119	0	30

Batch number: 141891848004

Sample number(s): 7521625-7521626

Aluminum	N.D.	0.0674	0.200	mg/l	109		90-112
Antimony	N.D.	0.0051	0.0200	mg/l	109		88-111
Arsenic	N.D.	0.0072	0.0200	mg/l	105		90-113
Barium	N.D.	0.00033	0.0050	mg/l	101		90-110
Beryllium	N.D.	0.00067	0.0050	mg/l	102		90-111
Cadmium	N.D.	0.00033	0.0050	mg/l	105		90-112
Calcium	N.D.	0.0334	0.200	mg/l	108		90-112
Chromium	N.D.	0.0013	0.0150	mg/l	104		90-110
Cobalt	N.D.	0.0010	0.0050	mg/l	104		90-115
Copper	N.D.	0.0028	0.0100	mg/l	102		90-112

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: PA Dept. of Env. Protection
Reported: 07/14/14 at 03:15 PM

Group Number: 1486636

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCS D %REC	LCS/LCSD Limits	RPD	RPD Max
Iron	N.D.	0.0334	0.200	mg/l	108		90-112		
Lead	N.D.	0.0047	0.0150	mg/l	108		88-116		
Magnesium	N.D.	0.0167	0.100	mg/l	104		89-110		
Manganese	0.00084 J	0.00083	0.0050	mg/l	105		90-110		
Nickel	N.D.	0.0016	0.0100	mg/l	107		90-117		
Potassium	N.D.	0.133	0.500	mg/l	105		90-110		
Selenium	N.D.	0.0048	0.0200	mg/l	99		89-113		
Silver	N.D.	0.0018	0.0050	mg/l	107		80-120		
Sodium	N.D.	0.167	1.00	mg/l	105		87-114		
Thallium	N.D.	0.0051	0.0300	mg/l	95		90-118		
Vanadium	N.D.	0.0019	0.0050	mg/l	105		90-110		
Zinc	N.D.	0.0020	0.0200	mg/l	103		90-110		

Batch number: 141895713009

Sample number(s): 7521625-7521626

Mercury Water N.D. 0.00006 0.00020 mg/l 119 80-120

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 141891848004	Sample number(s): 7521625-7521626 UNSPK: 7521625 BKG: 7521625								
Aluminum	106	106	75-125	0	20	N.D.	N.D.	0 (1)	20
Antimony	108	108	76-122	0	20	N.D.	N.D.	0 (1)	20
Arsenic	109	109	81-123	0	20	N.D.	N.D.	0 (1)	20
Barium	101	102	78-125	0	20	0.169	0.168	1	20
Beryllium	100	101	87-114	1	20	N.D.	N.D.	0 (1)	20
Cadmium	102	101	75-122	1	20	N.D.	N.D.	0 (1)	20
Calcium	122 (2)	61 (2)	75-125	2	20	97.2	97.4	0	20
Chromium	101	101	76-120	1	20	N.D.	N.D.	0 (1)	20
Cobalt	101	101	82-112	0	20	N.D.	N.D.	0 (1)	20
Copper	103	103	86-122	1	20	N.D.	N.D.	0 (1)	20
Iron	106	106	75-125	0	20	N.D.	N.D.	0 (1)	20
Lead	105	107	75-125	2	20	N.D.	N.D.	0 (1)	20
Magnesium	97 (2)	78 (2)	81-118	1	20	23.4	23.3	1	20
Manganese	102	101	75-125	0	20	0.0112	0.0112	1 (1)	20
Nickel	104	104	79-123	0	20	N.D.	N.D.	0 (1)	20
Potassium	106	105	77-128	1	20	2.28	2.30	1 (1)	20
Selenium	99	99	75-125	0	20	N.D.	0.0067 J	200* (1)	20
Silver	107	110	75-125	3	20	N.D.	N.D.	0 (1)	20
Sodium	104	101	84-117	1	20	22.0	21.9	0	20
Thallium	89	88	75-125	1	20	N.D.	N.D.	0 (1)	20
Vanadium	103	104	90-117	1	20	0.0037 J	0.0033 J	11 (1)	20
Zinc	101	101	85-117	0	20	0.0039 J	0.0038 J	1 (1)	20

Batch number: 141895713009

Sample number(s): 7521625-7521626 UNSPK: P516374 BKG: P516374

Mercury Water 122* 124* 80-120 2 20 N.D. N.D. 0 (1) 20

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: PA Dept. of Env. Protection
Reported: 07/14/14 at 03:15 PM

Group Number: 1486636

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 7.1 Low Level VOCs 8260B

Batch number: C141901AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7521628	109	102	99	99
Blank	107	104	99	99
LCS	105	102	101	102
LCSD	105	100	101	103

Limits: 77-114 74-113 77-110 78-110

Analysis Name: 19.5 1,4-Dioxane 8260B SIM

Batch number: E141881AA

Toluene-d8

7521619	95
7521620	95
7521621	95
7521622	95
7521623	95
7521626	95
7521627	94
7521628	93
7521629	95
7521631	95
Blank	96
LCS	96
LCSD	95

Limits: 80-120

Analysis Name: 19.5 1,4-Dioxane 8260B SIM

Batch number: E141882AA

Toluene-d8

7521624	94
7521625	94
7521630	94
Blank	94
LCS	94
LCSD	94

Limits: 80-120

Analysis Name: 7.1 Low Level VOCs 8260B

Batch number: I141891AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7521619	105	107	97	97
7521620	105	109	96	97
7521621	106	109	96	96

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: PA Dept. of Env. Protection

Group Number: 1486636

Reported: 07/14/14 at 03:15 PM

Surrogate Quality Control

7521622	105	105	97	97
7521623	106	107	96	98
7521624	105	106	96	96
7521625	106	107	97	96
7521626	105	107	96	95
7521627	106	107	96	97
7521629	103	105	97	97
7521630	105	108	96	96
7521631	103	102	97	95
Blank	104	107	97	95
LCS	101	103	99	101
LCSD	102	104	99	101

Limits: 77-114 74-113 77-110 78-110

Analysis Name: 8.37 TCL Semivolatiles/Waters

Batch number: 14186WAE026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7521619	65	56	90	92	92	89
7521620	62	47	85	91	91	93
7521621	57	49	57	93	90	62
7521622	70	63	91	91	90	87
7521623	65	61	87	89	87	79
7521624	70	62	96	90	87	102
7521625	67	47	92	94	93	102
7521626	66	49	90	89	87	81
7521627	64	45	89	87	84	90
7521628	55	52	77	89	87	91
7521629	67	57	93	91	89	84
7521630	70	62	94	91	88	100
7521631	65	47	89	91	90	93
Blank	65	50	93	89	89	102
LCS	71	55	92	92	89	93
LCSD	69	53	89	93	83	50*

Limits: 10-107 10-83 22-150 60-123 67-116 53-139

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 60195 For Eurofins Lancaster Laboratories Environmental use only
Group # 1486036 Sample # 7521619-32
Instructions on reverse side correspond with circled numbers.

COC # 347463 ⁵⁻¹

1 Client Information				4 Matrix				5 Analysis Requested												For Lab Use Only				
Client: <u>PADEP</u>		Acct. #: <u>06195</u>		☐ Sediment ☒ Ground ☐ Surface ☐ Potable ☐ Water ☐ NPDES ☐ Other:		Preservation Codes # F 1 2 Low Level VOC's (8260B) 1-4 Dioxane (SEM) TCI Semi-volatiles Metals (Dissolved PAC)												FSC: _____ SCR#: _____						
Project Name/ #: <u>1-263 HOFFVC</u>		PWSID #: _____																Preservation Codes H=HCl T=Thiosulfate N=HNO ₃ B=NaOH S=H ₂ SO ₄ O=Other						
Project Manager: <u>Colin Wade</u>		P.O. #: _____		☐ Soil ☐ Water ☐ Other:														6 Remarks <u>* Metals Samples Field Filtered</u>						
Sampler: <u>Bill Buckwalter / Zach Bentley / Audrey Torke</u>		Quote #: <u>157786</u>																						
Name of state where samples were collected: <u>PA</u>																								
2 Sample Identification		3 Collected		Grab	Composite					Total # of Containers														
Date	Time					Soil	Water	Other:																
MW-25	7/1/14	0910	X			X			8	3	3	2												
MW-2D - Lower		1000	X			X			8	3	3	2												
MW-2D - UPPER		1100	X			X			8	3	3	2												
MW-1		1030	X			X			8	3	3	2												
MW-15		1135	X			X			8	3	3	2												
MW-13		1340	X			X			8	3	3	2												
MW-9D - Lower		1330	X			X			9	3	3	2	1											
MW-9D - UPPER		1550	X			X			9	3	3	2	1											
MW-8D - Lower		1355	X			X			8	3	3	2												
MW-8D - UPPER		1500	X			X			8	3	3	2												

7 Turnaround Time (TAT) Requested (please circle)				Relinquished by		Date	Time	Received by		Date	Time	9
Standard				<u>Belle Bullen (Leidos)</u>		<u>7/3/14</u>	<u>12:30</u>	<u>Hangman</u>		<u>7/3/14</u>	<u>12:30</u>	
(Rush TAT is subject to laboratory approval and surcharge.)												
Date results are needed: <u>1 Week</u>				<u>Hangman</u>		<u>7/3/14</u>	<u>14:46</u>					
E-mail address: <u>Cowade@pa.gov</u>												
8 Data Package Options (circle if required)				Relinquished by		Date	Time	Received by		Date	Time	
Type I (Validation/non-CLP)				Type VI (Raw Data Only)				Relinquished by Commercial Carrier:				
Type III (Reduced non-CLP)				TX TRRP-13				UPS _____ FedEx _____ Other _____				
Type IV (CLP SOW)				MA MCP CT RCP				Temperature upon receipt: <u>03-10 °C</u>				
				EDD Required? Yes No If yes, format: _____ Site-Specific QC (MS/MSD/Dup)? Yes No (If yes, indicate QC sample and submit triplicate sample volume.)								

Acct. # 6195

Group # 1486636 Sample # 7521614-32

Instructions on reverse side correspond with circled numbers.

COC #347464

[illegible]

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but $\geq$ IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

PA Dept. of Env. Protection
Rachel Carson Off Bldg 14th Fl
PO Box 8471
Harrisburg PA 17105-8471

July 11, 2014

Project: 1-263

Submittal Date: 07/03/2014
Group Number: 1486637
SDG: PDW96
PO Number: 4000016590
Release Number: 1-263
State of Sample Origin: PA

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
OW-4-LOWER Grab Groundwater	7521633
OW-4-UPPER Grab Groundwater	7521634
MW-4 Grab Groundwater	7521635
MW-4D-LOWER Grab Groundwater	7521636
MW-4D-UPPER Grab Groundwater	7521637
MW-14 Grab Groundwater	7521638
MW-8 Grab Groundwater	7521639
MW-6D-UPPER Grab Groundwater	7521640
MW-6D-LOWER Grab Groundwater	7521641
MW-7D-LOWER Grab Groundwater	7521642
Duplicate-3 Grab Groundwater	7521643
Rinsate-3 Grab Water	7521644
Trip-2 Water	7521645

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	Leidos	Attn: Richard L Merhar
ELECTRONIC COPY TO	PA Dept. of Env. Protection	Attn: Ann Asbury
ELECTRONIC COPY TO	PA Dept. of Env. Protection	Attn: Colin Wade

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Sample Description: OW-4-LOWER Grab Groundwater
1-263

LL Sample # WW 7521633
LL Group # 1486637
Account # 06195

Project Name: 1-263

Collected: 07/02/2014 09:05 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 11:59

PO Box 8471

Harrisburg PA 17105-8471

P9601 SDG#: PDW96-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	N.D.	0.5	2.0	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
04678	Anthracene	120-12-7	N.D.	0.1	0.5	1
04678	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
04678	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
04678	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
04678	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
04678	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: OW-4-LOWER Grab Groundwater
1-263

LL Sample # WW 7521633
LL Group # 1486637
Account # 06195

Project Name: 1-263

Collected: 07/02/2014 09:05 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 11:59

PO Box 8471

Harrisburg PA 17105-8471

P9601 SDG#: PDW96-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
04678	Carbazole	86-74-8	N.D.	0.5	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.5	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
04678	Chrysene	218-01-9	N.D.	0.1	0.5	1
04678	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
04678	Dibenzofuran	132-64-9	N.D.	0.5	1	1
04678	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	1	1
04678	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1	1
04678	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	5	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	5	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	10	30	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
04678	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
04678	Fluorene	86-73-7	N.D.	0.1	0.5	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
04678	Hexachloroethane	67-72-1	N.D.	1	5	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
04678	Isophorone	78-59-1	N.D.	0.5	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
04678	2-Methylphenol	95-48-7	N.D.	0.5	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04678	Naphthalene	91-20-3	N.D.	0.1	0.5	1
04678	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.5	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
04678	4-Nitrophenol	100-02-7	N.D.	10	30	1

*=This limit was used in the evaluation of the final result

Sample Description: OW-4-LOWER Grab Groundwater
1-263

LL Sample # WW 7521633
LL Group # 1486637
Account # 06195

Project Name: 1-263

Collected: 07/02/2014 09:05 by BB

PA Dept. of Env. Protection

Rachel Carson Off Bldg 14th Fl

Submitted: 07/03/2014 14:46

PO Box 8471

Reported: 07/11/2014 11:59

Harrisburg PA 17105-8471

P9601 SDG#: PDW96-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04678	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
04678	Pentachlorophenol	87-86-5	N.D.	1	5	1
04678	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
04678	Phenol	108-95-2	N.D.	0.5	1	1
04678	Pyrene	129-00-0	N.D.	0.1	0.5	1
04678	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL purge	1	C141891AA	07/08/2014 22:17	Kevin A Sposito	1
00527	19.5 1,4-Dioxane 8260B SIM	SW-846 8260B SIM	1	E141882AA	07/07/2014 21:59	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141882AA	07/07/2014 21:59	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C141891AA	07/08/2014 22:17	Kevin A Sposito	1
04678	8.37 TCL Semivolatiles/Waters	SW-846 8270C	1	14186WAF026	07/09/2014 03:02	Brian K Graham	1
00813	BNA Water Extraction	SW-846 3510C	1	14186WAF026	07/07/2014 09:30	Anna E Stager	1

*=This limit was used in the evaluation of the final result

Sample Description: OW-4-UPPER Grab Groundwater
1-263

LL Sample # WW 7521634
LL Group # 1486637
Account # 06195

Project Name: 1-263

Collected: 07/02/2014 10:20 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 11:59

PO Box 8471

Harrisburg PA 17105-8471

P9602 SDG#: PDW96-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	N.D.	0.5	2.0	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
04678	Anthracene	120-12-7	N.D.	0.1	0.5	1
04678	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
04678	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
04678	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
04678	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
04678	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: OW-4-UPPER Grab Groundwater
1-263

LL Sample # WW 7521634
LL Group # 1486637
Account # 06195

Project Name: 1-263

Collected: 07/02/2014 10:20 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 11:59

PO Box 8471

Harrisburg PA 17105-8471

P9602 SDG#: PDW96-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
04678	Carbazole	86-74-8	N.D.	0.5	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.5	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
04678	Chrysene	218-01-9	N.D.	0.1	0.5	1
04678	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
04678	Dibenzofuran	132-64-9	N.D.	0.5	1	1
04678	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	1	1
04678	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1	1
04678	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	5	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	5	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	10	30	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
04678	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
04678	Fluorene	86-73-7	N.D.	0.1	0.5	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
04678	Hexachloroethane	67-72-1	N.D.	1	5	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
04678	Isophorone	78-59-1	N.D.	0.5	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
04678	2-Methylphenol	95-48-7	N.D.	0.5	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04678	Naphthalene	91-20-3	N.D.	0.1	0.5	1
04678	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.5	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
04678	4-Nitrophenol	100-02-7	N.D.	10	30	1

*=This limit was used in the evaluation of the final result

Sample Description: OW-4-UPPER Grab Groundwater
1-263

LL Sample # WW 7521634
LL Group # 1486637
Account # 06195

Project Name: 1-263

Collected: 07/02/2014 10:20 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 11:59

PO Box 8471

Harrisburg PA 17105-8471

P9602 SDG#: PDW96-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04678	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
04678	Pentachlorophenol	87-86-5	N.D.	1	5	1
04678	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
04678	Phenol	108-95-2	N.D.	0.5	1	1
04678	Pyrene	129-00-0	0.1 J	0.1	0.5	1
04678	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL purge	1	C141891AA	07/08/2014 22:39	Kevin A Sposito	1
00527	19.5 1,4-Dioxane 8260B SIM	SW-846 8260B SIM	1	E141881AA	07/07/2014 16:38	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141881AA	07/07/2014 16:38	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C141891AA	07/08/2014 22:39	Kevin A Sposito	1
04678	8.37 TCL Semivolatiles/Waters	SW-846 8270C	1	14186WAF026	07/09/2014 03:30	Brian K Graham	1
00813	BNA Water Extraction	SW-846 3510C	1	14186WAF026	07/07/2014 09:30	Anna E Stager	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-4 Grab Groundwater
1-263

LL Sample # WW 7521635
LL Group # 1486637
Account # 06195

Project Name: 1-263

Collected: 07/02/2014 09:20 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 11:59

PO Box 8471

Harrisburg PA 17105-8471

P9603 SDG#: PDW96-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	60	100	20
02898	Benzene	71-43-2	20	2.0	10	20
02898	Bromodichloromethane	75-27-4	N.D.	2.0	10	20
02898	Bromoform	75-25-2	N.D.	2.0	10	20
02898	Bromomethane	74-83-9	N.D.	2.0	10	20
02898	2-Butanone	78-93-3	N.D.	20	100	20
02898	Carbon Disulfide	75-15-0	N.D.	8.0	10	20
02898	Carbon Tetrachloride	56-23-5	N.D.	2.0	10	20
02898	Chlorobenzene	108-90-7	370	2.0	10	20
02898	Chloroethane	75-00-3	20	2.0	10	20
02898	Chloroform	67-66-3	N.D.	2.0	10	20
02898	Chloromethane	74-87-3	N.D.	4.0	10	20
02898	Dibromochloromethane	124-48-1	N.D.	2.0	10	20
02898	1,1-Dichloroethane	75-34-3	150	2.0	10	20
02898	1,2-Dichloroethane	107-06-2	N.D.	2.0	10	20
02898	1,1-Dichloroethene	75-35-4	1,000	20	100	200
02898	cis-1,2-Dichloroethene	156-59-2	110	2.0	10	20
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	2.0	10	20
02898	1,2-Dichloropropane	78-87-5	N.D.	2.0	10	20
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	2.0	10	20
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	2.0	10	20
02898	Ethylbenzene	100-41-4	N.D.	2.0	10	20
02898	2-Hexanone	591-78-6	N.D.	20	100	20
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	20	100	20
02898	Methylene Chloride	75-09-2	N.D.	4.0	10	20
02898	Styrene	100-42-5	N.D.	2.0	10	20
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	2.0	10	20
02898	Tetrachloroethene	127-18-4	N.D.	2.0	10	20
02898	Toluene	108-88-3	N.D.	2.0	10	20
02898	1,1,1-Trichloroethane	71-55-6	1,400	20	100	200
02898	1,1,2-Trichloroethane	79-00-5	N.D.	2.0	10	20
02898	Trichloroethene	79-01-6	96	2.0	10	20
02898	Vinyl Chloride	75-01-4	17	2.0	10	20
02898	Xylene (Total)	1330-20-7	N.D.	2.0	10	20
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	140	10	40	20
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	0.3 J	0.1	0.6	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.6	1
04678	Anthracene	120-12-7	0.2 J	0.1	0.6	1
04678	Benzo(a)anthracene	56-55-3	1	0.1	0.6	1
04678	Benzo(a)pyrene	50-32-8	2	0.1	0.6	1
04678	Benzo(b)fluoranthene	205-99-2	2	0.1	0.6	1
04678	Benzo(g,h,i)perylene	191-24-2	1	0.1	0.6	1
04678	Benzo(k)fluoranthene	207-08-9	0.9	0.1	0.6	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.6	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	6	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-4 Grab Groundwater
1-263

LL Sample # WW 7521635
LL Group # 1486637
Account # 06195

Project Name: 1-263

Collected: 07/02/2014 09:20 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 11:59

PO Box 8471

Harrisburg PA 17105-8471

P9603 SDG#: PDW96-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	6	1
04678	Carbazole	86-74-8	N.D.	0.6	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.6	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.6	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.6	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.6	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.5	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.6	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.6	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.6	1	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
04678	Chrysene	218-01-9	1	0.1	0.6	1
04678	Dibenz(a,h)anthracene	53-70-3	0.3 J	0.1	0.6	1
04678	Dibenzofuran	132-64-9	N.D.	0.6	1	1
04678	1,2-Dichlorobenzene	95-50-1	1,100	6	11	10
04678	1,3-Dichlorobenzene	541-73-1	7	0.6	1	1
04678	1,4-Dichlorobenzene	106-46-7	150	6	11	10
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	6	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.6	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	6	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.6	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	6	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	6	17	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	11	34	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	6	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.6	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	6	1
04678	Fluoranthene	206-44-0	2	0.1	0.6	1
04678	Fluorene	86-73-7	0.1 J	0.1	0.6	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.6	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.6	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	6	17	1
04678	Hexachloroethane	67-72-1	N.D.	1	6	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	1	0.1	0.6	1
04678	Isophorone	78-59-1	N.D.	0.6	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.6	1
04678	2-Methylphenol	95-48-7	N.D.	0.6	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.6	1	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04678	Naphthalene	91-20-3	2	0.1	0.6	1
04678	2-Nitroaniline	88-74-4	N.D.	0.6	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.6	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.6	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.6	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.6	1	1
04678	4-Nitrophenol	100-02-7	N.D.	11	34	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-4 Grab Groundwater
1-263

LL Sample # WW 7521635
LL Group # 1486637
Account # 06195

Project Name: 1-263

Collected: 07/02/2014 09:20 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 11:59

PO Box 8471

Harrisburg PA 17105-8471

P9603 SDG#: PDW96-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.6	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.6	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04678	Di-n-octylphthalate	117-84-0	N.D.	2	6	1
04678	Pentachlorophenol	87-86-5	N.D.	1	6	1
04678	Phenanthrene	85-01-8	1	0.1	0.6	1
04678	Phenol	108-95-2	N.D.	0.6	1	1
04678	Pyrene	129-00-0	2	0.1	0.6	1
04678	1,2,4-Trichlorobenzene	120-82-1	11	0.6	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.6	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.6	1	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL	1	C141891AA	07/09/2014 00:56	Kevin A Sposito	20
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL	1	C141891AA	07/09/2014 01:18	Kevin A Sposito	200
00527	19.5 1,4-Dioxane 8260B	SW-846 8260B SIM	1	E141891AA	07/08/2014 13:15	Jason M Long	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141891AA	07/08/2014 13:15	Jason M Long	20
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C141891AA	07/09/2014 00:56	Kevin A Sposito	20
01163	GC/MS VOA Water Prep	SW-846 5030B	3	C141891AA	07/09/2014 01:18	Kevin A Sposito	200
04678	8.37 TCL	SW-846 8270C	1	14186WAF026	07/09/2014 03:58	Brian K Graham	1
04678	8.37 TCL	SW-846 8270C	1	14186WAF026	07/09/2014 20:54	Linda M Hartenstine	10
00813	BNA Water Extraction	SW-846 3510C	1	14186WAF026	07/07/2014 09:30	Anna E Stager	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-4D-LOWER Grab Groundwater
1-263

LL Sample # WW 7521636
LL Group # 1486637
Account # 06195

Project Name: 1-263

Collected: 07/02/2014 09:45 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 11:59

PO Box 8471

Harrisburg PA 17105-8471

P9604 SDG#: PDW96-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	60	100	20
02898	Benzene	71-43-2	7.0 J	2.0	10	20
02898	Bromodichloromethane	75-27-4	N.D.	2.0	10	20
02898	Bromoform	75-25-2	N.D.	2.0	10	20
02898	Bromomethane	74-83-9	N.D.	2.0	10	20
02898	2-Butanone	78-93-3	N.D.	20	100	20
02898	Carbon Disulfide	75-15-0	N.D.	8.0	10	20
02898	Carbon Tetrachloride	56-23-5	N.D.	2.0	10	20
02898	Chlorobenzene	108-90-7	29	2.0	10	20
02898	Chloroethane	75-00-3	N.D.	2.0	10	20
02898	Chloroform	67-66-3	N.D.	2.0	10	20
02898	Chloromethane	74-87-3	N.D.	4.0	10	20
02898	Dibromochloromethane	124-48-1	N.D.	2.0	10	20
02898	1,1-Dichloroethane	75-34-3	76	2.0	10	20
02898	1,2-Dichloroethane	107-06-2	N.D.	2.0	10	20
02898	1,1-Dichloroethene	75-35-4	22	2.0	10	20
02898	cis-1,2-Dichloroethene	156-59-2	1,800	20	100	200
02898	trans-1,2-Dichloroethene	156-60-5	11	2.0	10	20
02898	1,2-Dichloropropane	78-87-5	N.D.	2.0	10	20
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	2.0	10	20
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	2.0	10	20
02898	Ethylbenzene	100-41-4	N.D.	2.0	10	20
02898	2-Hexanone	591-78-6	N.D.	20	100	20
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	20	100	20
02898	Methylene Chloride	75-09-2	N.D.	4.0	10	20
02898	Styrene	100-42-5	N.D.	2.0	10	20
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	2.0	10	20
02898	Tetrachloroethene	127-18-4	N.D.	2.0	10	20
02898	Toluene	108-88-3	3.9 J	2.0	10	20
02898	1,1,1-Trichloroethane	71-55-6	N.D.	2.0	10	20
02898	1,1,2-Trichloroethane	79-00-5	N.D.	2.0	10	20
02898	Trichloroethene	79-01-6	180	2.0	10	20
02898	Vinyl Chloride	75-01-4	6.8 J	2.0	10	20
02898	Xylene (Total)	1330-20-7	N.D.	2.0	10	20
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	64	5.0	20	10
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	0.3 J	0.1	0.5	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
04678	Anthracene	120-12-7	0.7	0.1	0.5	1
04678	Benzo(a)anthracene	56-55-3	3	0.1	0.5	1
04678	Benzo(a)pyrene	50-32-8	3	0.1	0.5	1
04678	Benzo(b)fluoranthene	205-99-2	4	0.1	0.5	1
04678	Benzo(g,h,i)perylene	191-24-2	2	0.1	0.5	1
04678	Benzo(k)fluoranthene	207-08-9	1	0.1	0.5	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-4D-LOWER Grab Groundwater
1-263

LL Sample # WW 7521636
LL Group # 1486637
Account # 06195

Project Name: 1-263

Collected: 07/02/2014 09:45 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 11:59

PO Box 8471

Harrisburg PA 17105-8471

P9604 SDG#: PDW96-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
04678	Carbazole	86-74-8	N.D.	0.5	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.5	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	0.7 J	0.5	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
04678	Chrysene	218-01-9	3	0.1	0.5	1
04678	Dibenz(a,h)anthracene	53-70-3	0.5 J	0.1	0.5	1
04678	Dibenzofuran	132-64-9	N.D.	0.5	1	1
04678	1,2-Dichlorobenzene	95-50-1	220	5	10	10
04678	1,3-Dichlorobenzene	541-73-1	1	0.5	1	1
04678	1,4-Dichlorobenzene	106-46-7	24	0.5	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	5	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	5	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	10	30	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
04678	Fluoranthene	206-44-0	6	0.1	0.5	1
04678	Fluorene	86-73-7	0.2 J	0.1	0.5	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
04678	Hexachloroethane	67-72-1	N.D.	1	5	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	2	0.1	0.5	1
04678	Isophorone	78-59-1	N.D.	0.5	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
04678	2-Methylphenol	95-48-7	N.D.	0.5	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.5	1	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04678	Naphthalene	91-20-3	N.D.	0.1	0.5	1
04678	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.5	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
04678	4-Nitrophenol	100-02-7	N.D.	10	30	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-4D-LOWER Grab Groundwater
1-263

LL Sample # WW 7521636
LL Group # 1486637
Account # 06195

Project Name: 1-263

Collected: 07/02/2014 09:45 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 11:59

PO Box 8471

Harrisburg PA 17105-8471

P9604 SDG#: PDW96-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04678	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
04678	Pentachlorophenol	87-86-5	N.D.	1	5	1
04678	Phenanthrene	85-01-8	2	0.1	0.5	1
04678	Phenol	108-95-2	N.D.	0.5	1	1
04678	Pyrene	129-00-0	5	0.1	0.5	1
04678	1,2,4-Trichlorobenzene	120-82-1	0.5 J	0.5	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL purge	1	C141891AA	07/09/2014 01:41	Kevin A Sposito	20
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL purge	1	C141891AA	07/09/2014 02:03	Kevin A Sposito	200
00527	19.5 1,4-Dioxane 8260B SIM	SW-846 8260B SIM	1	E141891AA	07/08/2014 13:36	Jason M Long	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141891AA	07/08/2014 13:36	Jason M Long	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C141891AA	07/09/2014 01:41	Kevin A Sposito	20
01163	GC/MS VOA Water Prep	SW-846 5030B	3	C141891AA	07/09/2014 02:03	Kevin A Sposito	200
04678	8.37 TCL Semivolatiles/Waters	SW-846 8270C	1	14186WAF026	07/09/2014 04:27	Brian K Graham	1
04678	8.37 TCL Semivolatiles/Waters	SW-846 8270C	1	14186WAF026	07/09/2014 21:23	Linda M Hartenstine	10
00813	BNA Water Extraction	SW-846 3510C	1	14186WAF026	07/07/2014 09:30	Anna E Stager	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-4D-UPPER Grab Groundwater
1-263

LL Sample # WW 7521637
LL Group # 1486637
Account # 06195

Project Name: 1-263

Collected: 07/02/2014 11:40 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 11:59

PO Box 8471

Harrisburg PA 17105-8471

P9605 SDG#: PDW96-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	60	100	20
02898	Benzene	71-43-2	13	2.0	10	20
02898	Bromodichloromethane	75-27-4	N.D.	2.0	10	20
02898	Bromoform	75-25-2	N.D.	2.0	10	20
02898	Bromomethane	74-83-9	N.D.	2.0	10	20
02898	2-Butanone	78-93-3	N.D.	20	100	20
02898	Carbon Disulfide	75-15-0	N.D.	8.0	10	20
02898	Carbon Tetrachloride	56-23-5	N.D.	2.0	10	20
02898	Chlorobenzene	108-90-7	150	2.0	10	20
02898	Chloroethane	75-00-3	N.D.	2.0	10	20
02898	Chloroform	67-66-3	N.D.	2.0	10	20
02898	Chloromethane	74-87-3	N.D.	4.0	10	20
02898	Dibromochloromethane	124-48-1	N.D.	2.0	10	20
02898	1,1-Dichloroethane	75-34-3	130	2.0	10	20
02898	1,2-Dichloroethane	107-06-2	N.D.	2.0	10	20
02898	1,1-Dichloroethene	75-35-4	54	2.0	10	20
02898	cis-1,2-Dichloroethene	156-59-2	2,700	20	100	200
02898	trans-1,2-Dichloroethene	156-60-5	24	2.0	10	20
02898	1,2-Dichloropropane	78-87-5	N.D.	2.0	10	20
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	2.0	10	20
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	2.0	10	20
02898	Ethylbenzene	100-41-4	N.D.	2.0	10	20
02898	2-Hexanone	591-78-6	N.D.	20	100	20
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	20	100	20
02898	Methylene Chloride	75-09-2	N.D.	4.0	10	20
02898	Styrene	100-42-5	N.D.	2.0	10	20
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	2.0	10	20
02898	Tetrachloroethene	127-18-4	N.D.	2.0	10	20
02898	Toluene	108-88-3	N.D.	2.0	10	20
02898	1,1,1-Trichloroethane	71-55-6	6.8 J	2.0	10	20
02898	1,1,2-Trichloroethane	79-00-5	N.D.	2.0	10	20
02898	Trichloroethene	79-01-6	420	2.0	10	20
02898	Vinyl Chloride	75-01-4	24	2.0	10	20
02898	Xylene (Total)	1330-20-7	N.D.	2.0	10	20
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	76	5.0	20	10
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
04678	Anthracene	120-12-7	0.3 J	0.1	0.5	1
04678	Benzo(a)anthracene	56-55-3	0.7	0.1	0.5	1
04678	Benzo(a)pyrene	50-32-8	0.8	0.1	0.5	1
04678	Benzo(b)fluoranthene	205-99-2	1	0.1	0.5	1
04678	Benzo(g,h,i)perylene	191-24-2	0.6	0.1	0.5	1
04678	Benzo(k)fluoranthene	207-08-9	0.4 J	0.1	0.5	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-4D-UPPER Grab Groundwater
1-263

LL Sample # WW 7521637
LL Group # 1486637
Account # 06195

Project Name: 1-263

Collected: 07/02/2014 11:40 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 11:59

PO Box 8471

Harrisburg PA 17105-8471

P9605 SDG#: PDW96-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
04678	Carbazole	86-74-8	N.D.	0.5	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.5	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
04678	Chrysene	218-01-9	0.8	0.1	0.5	1
04678	Dibenz(a,h)anthracene	53-70-3	0.1 J	0.1	0.5	1
04678	Dibenzofuran	132-64-9	N.D.	0.5	1	1
04678	1,2-Dichlorobenzene	95-50-1	1,200	5	10	10
04678	1,3-Dichlorobenzene	541-73-1	7	0.5	1	1
04678	1,4-Dichlorobenzene	106-46-7	150	5	10	10
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	5	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	5	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	16	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	10	31	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
04678	Fluoranthene	206-44-0	2	0.1	0.5	1
04678	Fluorene	86-73-7	N.D.	0.1	0.5	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	5	16	1
04678	Hexachloroethane	67-72-1	N.D.	1	5	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.1	0.5	1
04678	Isophorone	78-59-1	N.D.	0.5	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
04678	2-Methylphenol	95-48-7	N.D.	0.5	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04678	Naphthalene	91-20-3	N.D.	0.1	0.5	1
04678	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.5	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
04678	4-Nitrophenol	100-02-7	N.D.	10	31	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-4D-UPPER Grab Groundwater
1-263

LL Sample # WW 7521637
LL Group # 1486637
Account # 06195

Project Name: 1-263

Collected: 07/02/2014 11:40 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 11:59

PO Box 8471

Harrisburg PA 17105-8471

P9605 SDG#: PDW96-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04678	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
04678	Pentachlorophenol	87-86-5	N.D.	1	5	1
04678	Phenanthrene	85-01-8	0.8	0.1	0.5	1
04678	Phenol	108-95-2	N.D.	0.5	1	1
04678	Pyrene	129-00-0	2	0.1	0.5	1
04678	1,2,4-Trichlorobenzene	120-82-1	4	0.5	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL	1	C141891AA	07/09/2014 02:26	Kevin A Sposito	20
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL	1	C141891AA	07/09/2014 02:49	Kevin A Sposito	200
00527	19.5 1,4-Dioxane 8260B	SW-846 8260B SIM	1	E141891AA	07/08/2014 13:57	Jason M Long	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141891AA	07/08/2014 13:57	Jason M Long	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C141891AA	07/09/2014 02:26	Kevin A Sposito	20
01163	GC/MS VOA Water Prep	SW-846 5030B	3	C141891AA	07/09/2014 02:49	Kevin A Sposito	200
04678	8.37 TCL	SW-846 8270C	1	14186WAF026	07/09/2014 04:55	Brian K Graham	1
04678	8.37 TCL	SW-846 8270C	1	14186WAF026	07/09/2014 21:51	Linda M	10
00813	BNA Water Extraction	SW-846 3510C	1	14186WAF026	07/07/2014 09:30	Hartenstine Anna E Stager	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-14 Grab Groundwater
1-263

LL Sample # WW 7521638
LL Group # 1486637
Account # 06195

Project Name: 1-263

Collected: 07/02/2014 11:11 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 11:59

PO Box 8471

Harrisburg PA 17105-8471

P9606 SDG#: PDW96-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	15	25	5
02898	Benzene	71-43-2	130	5.0	25	50
02898	Bromodichloromethane	75-27-4	N.D.	0.5	2.5	5
02898	Bromoform	75-25-2	N.D.	0.5	2.5	5
02898	Bromomethane	74-83-9	N.D.	0.5	2.5	5
02898	2-Butanone	78-93-3	N.D.	5.0	25	5
02898	Carbon Disulfide	75-15-0	N.D.	2.0	2.5	5
02898	Carbon Tetrachloride	56-23-5	N.D.	0.5	2.5	5
02898	Chlorobenzene	108-90-7	2.5	0.5	2.5	5
02898	Chloroethane	75-00-3	13	0.5	2.5	5
02898	Chloroform	67-66-3	N.D.	0.5	2.5	5
02898	Chloromethane	74-87-3	N.D.	1.0	2.5	5
02898	Dibromochloromethane	124-48-1	N.D.	0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	19	0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	7.0	0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	0.8 J	0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	17	0.5	2.5	5
02898	trans-1,2-Dichloroethene	156-60-5	0.7 J	0.5	2.5	5
02898	1,2-Dichloropropane	78-87-5	N.D.	0.5	2.5	5
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	2.5	5
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	2.5	5
02898	Ethylbenzene	100-41-4	N.D.	0.5	2.5	5
02898	2-Hexanone	591-78-6	N.D.	5.0	25	5
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	5.0	25	5
02898	Methylene Chloride	75-09-2	N.D.	1.0	2.5	5
02898	Styrene	100-42-5	N.D.	0.5	2.5	5
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	2.5	5
02898	Tetrachloroethene	127-18-4	N.D.	0.5	2.5	5
02898	Toluene	108-88-3	N.D.	0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	0.8 J	0.5	2.5	5
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	2.5	5
02898	Trichloroethene	79-01-6	N.D.	0.5	2.5	5
02898	Vinyl Chloride	75-01-4	8.9	0.5	2.5	5
02898	Xylene (Total)	1330-20-7	N.D.	0.5	2.5	5
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	140	10	40	20
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	0.3 J	0.1	0.5	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
04678	Anthracene	120-12-7	N.D.	0.1	0.5	1
04678	Benzo(a)anthracene	56-55-3	0.2 J	0.1	0.5	1
04678	Benzo(a)pyrene	50-32-8	0.3 J	0.1	0.5	1
04678	Benzo(b)fluoranthene	205-99-2	0.4 J	0.1	0.5	1
04678	Benzo(g,h,i)perylene	191-24-2	0.2 J	0.1	0.5	1
04678	Benzo(k)fluoranthene	207-08-9	0.2 J	0.1	0.5	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-14 Grab Groundwater
1-263

LL Sample # WW 7521638
LL Group # 1486637
Account # 06195

Project Name: 1-263

Collected: 07/02/2014 11:11 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 11:59

PO Box 8471

Harrisburg PA 17105-8471

P9606 SDG#: PDW96-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
04678	Carbazole	86-74-8	N.D.	0.5	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.5	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
04678	Chrysene	218-01-9	0.3 J	0.1	0.5	1
04678	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
04678	Dibenzofuran	132-64-9	N.D.	0.5	1	1
04678	1,2-Dichlorobenzene	95-50-1	2	0.5	1	1
04678	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1	1
04678	1,4-Dichlorobenzene	106-46-7	0.6 J	0.5	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	5	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	5	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	16	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	11	32	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
04678	Fluoranthene	206-44-0	0.3 J	0.1	0.5	1
04678	Fluorene	86-73-7	N.D.	0.1	0.5	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	5	16	1
04678	Hexachloroethane	67-72-1	N.D.	1	5	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	0.2 J	0.1	0.5	1
04678	Isophorone	78-59-1	N.D.	0.5	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
04678	2-Methylphenol	95-48-7	N.D.	0.5	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.5	1	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04678	Naphthalene	91-20-3	N.D.	0.1	0.5	1
04678	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.5	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
04678	4-Nitrophenol	100-02-7	N.D.	11	32	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-14 Grab Groundwater
1-263

LL Sample # WW 7521638
LL Group # 1486637
Account # 06195

Project Name: 1-263

Collected: 07/02/2014 11:11 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 11:59

PO Box 8471

Harrisburg PA 17105-8471

P9606 SDG#: PDW96-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04678	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
04678	Pentachlorophenol	87-86-5	N.D.	1	5	1
04678	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
04678	Phenol	108-95-2	N.D.	0.5	1	1
04678	Pyrene	129-00-0	0.4 J	0.1	0.5	1
04678	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL	1	C141891AA	07/09/2014 03:11	Kevin A Sposito	50
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL	1	C141901AA	07/09/2014 18:31	Jason M Long	5
00527	19.5 1,4-Dioxane 8260B	SW-846 8260B SIM	1	E141891AA	07/08/2014 14:18	Jason M Long	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141891AA	07/08/2014 14:18	Jason M Long	20
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C141891AA	07/09/2014 03:11	Kevin A Sposito	50
01163	GC/MS VOA Water Prep	SW-846 5030B	3	C141901AA	07/09/2014 18:31	Jason M Long	5
04678	8.37 TCL	SW-846 8270C	1	14186WAF026	07/09/2014 05:23	Brian K Graham	1
00813	Semivolatiles/Waters						
00813	BNA Water Extraction	SW-846 3510C	1	14186WAF026	07/07/2014 09:30	Anna E Stager	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-8 Grab Groundwater
1-263

LL Sample # WW 7521639
LL Group # 1486637
Account # 06195

Project Name: 1-263

Collected: 07/02/2014 12:30 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 11:59

PO Box 8471

Harrisburg PA 17105-8471

P9607 SDG#: PDW96-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	60	100	20
02898	Benzene	71-43-2	20	2.0	10	20
02898	Bromodichloromethane	75-27-4	N.D.	2.0	10	20
02898	Bromoform	75-25-2	N.D.	2.0	10	20
02898	Bromomethane	74-83-9	N.D.	2.0	10	20
02898	2-Butanone	78-93-3	N.D.	20	100	20
02898	Carbon Disulfide	75-15-0	N.D.	8.0	10	20
02898	Carbon Tetrachloride	56-23-5	N.D.	2.0	10	20
02898	Chlorobenzene	108-90-7	2,000	10	50	100
02898	Chloroethane	75-00-3	37	2.0	10	20
02898	Chloroform	67-66-3	N.D.	2.0	10	20
02898	Chloromethane	74-87-3	N.D.	4.0	10	20
02898	Dibromochloromethane	124-48-1	N.D.	2.0	10	20
02898	1,1-Dichloroethane	75-34-3	150	2.0	10	20
02898	1,2-Dichloroethane	107-06-2	N.D.	2.0	10	20
02898	1,1-Dichloroethene	75-35-4	43	2.0	10	20
02898	cis-1,2-Dichloroethene	156-59-2	760	10	50	100
02898	trans-1,2-Dichloroethene	156-60-5	12	2.0	10	20
02898	1,2-Dichloropropane	78-87-5	N.D.	2.0	10	20
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	2.0	10	20
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	2.0	10	20
02898	Ethylbenzene	100-41-4	N.D.	2.0	10	20
02898	2-Hexanone	591-78-6	N.D.	20	100	20
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	20	100	20
02898	Methylene Chloride	75-09-2	N.D.	4.0	10	20
02898	Styrene	100-42-5	N.D.	2.0	10	20
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	2.0	10	20
02898	Tetrachloroethene	127-18-4	N.D.	2.0	10	20
02898	Toluene	108-88-3	2.7 J	2.0	10	20
02898	1,1,1-Trichloroethane	71-55-6	75	2.0	10	20
02898	1,1,2-Trichloroethane	79-00-5	N.D.	2.0	10	20
02898	Trichloroethene	79-01-6	120	2.0	10	20
02898	Vinyl Chloride	75-01-4	95	2.0	10	20
02898	Xylene (Total)	1330-20-7	N.D.	2.0	10	20
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	57	10	40	20
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	0.6	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.6	1
04678	Anthracene	120-12-7	0.2 J	0.1	0.6	1
04678	Benzo(a)anthracene	56-55-3	0.7	0.1	0.6	1
04678	Benzo(a)pyrene	50-32-8	0.8	0.1	0.6	1
04678	Benzo(b)fluoranthene	205-99-2	1	0.1	0.6	1
04678	Benzo(g,h,i)perylene	191-24-2	0.6	0.1	0.6	1
04678	Benzo(k)fluoranthene	207-08-9	0.4 J	0.1	0.6	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.6	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	6	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-8 Grab Groundwater
1-263

LL Sample # WW 7521639
LL Group # 1486637
Account # 06195

Project Name: 1-263

Collected: 07/02/2014 12:30 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 11:59

PO Box 8471

Harrisburg PA 17105-8471

P9607 SDG#: PDW96-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	6	1
04678	Carbazole	86-74-8	0.7 J	0.6	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.6	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.6	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.6	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.6	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	9	0.6	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.6	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.6	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
04678	Chrysene	218-01-9	0.7	0.1	0.6	1
04678	Dibenz(a,h)anthracene	53-70-3	0.2 J	0.1	0.6	1
04678	Dibenzofuran	132-64-9	N.D.	0.6	1	1
04678	1,2-Dichlorobenzene	95-50-1	1,700	55	110	100
04678	1,3-Dichlorobenzene	541-73-1	12	0.6	1	1
04678	1,4-Dichlorobenzene	106-46-7	250	6	11	10
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	6	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.6	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	6	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.6	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	6	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	6	17	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	11	33	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	6	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.6	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	6	1
04678	Fluoranthene	206-44-0	1	0.1	0.6	1
04678	Fluorene	86-73-7	N.D.	0.1	0.6	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.6	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.6	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	6	17	1
04678	Hexachloroethane	67-72-1	N.D.	1	6	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	0.5 J	0.1	0.6	1
04678	Isophorone	78-59-1	N.D.	0.6	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.6	1
04678	2-Methylphenol	95-48-7	N.D.	0.6	1	1
04678	4-Methylphenol	106-44-5	7	0.6	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04678	Naphthalene	91-20-3	N.D.	0.1	0.6	1
04678	2-Nitroaniline	88-74-4	N.D.	0.6	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.6	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.6	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.6	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.6	1	1
04678	4-Nitrophenol	100-02-7	N.D.	11	33	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-8 Grab Groundwater
1-263

LL Sample # WW 7521639
LL Group # 1486637
Account # 06195

Project Name: 1-263

Collected: 07/02/2014 12:30 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 11:59

PO Box 8471

Harrisburg PA 17105-8471

P9607 SDG#: PDW96-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.6	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.6	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04678	Di-n-octylphthalate	117-84-0	N.D.	2	6	1
04678	Pentachlorophenol	87-86-5	N.D.	1	6	1
04678	Phenanthrene	85-01-8	1	0.1	0.6	1
04678	Phenol	108-95-2	N.D.	0.6	1	1
04678	Pyrene	129-00-0	1	0.1	0.6	1
04678	1,2,4-Trichlorobenzene	120-82-1	12	0.6	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.6	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.6	1	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL	1	C141891AA	07/09/2014 03:56	Kevin A Sposito	100
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL	1	C141901AA	07/09/2014 18:53	Jason M Long	20
00527	19.5 1,4-Dioxane 8260B	SW-846 8260B SIM	1	E141891AA	07/08/2014 12:54	Jason M Long	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141891AA	07/08/2014 12:54	Jason M Long	20
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C141891AA	07/09/2014 03:56	Kevin A Sposito	100
01163	GC/MS VOA Water Prep	SW-846 5030B	3	C141901AA	07/09/2014 18:53	Jason M Long	20
04678	8.37 TCL	SW-846 8270C	1	14186WAF026	07/09/2014 05:52	Brian K Graham	1
04678	Semivolatiles/Waters	SW-846 8270C	1	14186WAF026	07/09/2014 23:33	Brian K Graham	10
04678	8.37 TCL	SW-846 8270C	1	14186WAF026	07/10/2014 00:30	Brian K Graham	100
00813	BNA Water Extraction	SW-846 3510C	1	14186WAF026	07/07/2014 09:30	Anna E Stager	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-6D-UPPER Grab Groundwater
1-263

LL Sample # WW 7521640
LL Group # 1486637
Account # 06195

Project Name: 1-263

Collected: 07/02/2014 12:05 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 11:59

PO Box 8471

Harrisburg PA 17105-8471

P9608 SDG#: PDW96-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.5	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.2 J	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	0.2 J	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	0.3 J	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5 J	0.5	2.0	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
04678	Anthracene	120-12-7	N.D.	0.1	0.5	1
04678	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
04678	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
04678	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
04678	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
04678	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-6D-UPPER Grab Groundwater
1-263

LL Sample # WW 7521640
LL Group # 1486637
Account # 06195

Project Name: 1-263

Collected: 07/02/2014 12:05 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 11:59

PO Box 8471

Harrisburg PA 17105-8471

P9608 SDG#: PDW96-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
04678	Carbazole	86-74-8	N.D.	0.5	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.5	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
04678	Chrysene	218-01-9	N.D.	0.1	0.5	1
04678	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
04678	Dibenzofuran	132-64-9	N.D.	0.5	1	1
04678	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	1	1
04678	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1	1
04678	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	5	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	5	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	10	30	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
04678	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
04678	Fluorene	86-73-7	N.D.	0.1	0.5	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
04678	Hexachloroethane	67-72-1	N.D.	1	5	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
04678	Isophorone	78-59-1	N.D.	0.5	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
04678	2-Methylphenol	95-48-7	N.D.	0.5	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.5	1	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04678	Naphthalene	91-20-3	N.D.	0.1	0.5	1
04678	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.5	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
04678	4-Nitrophenol	100-02-7	N.D.	10	30	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-6D-UPPER Grab Groundwater
1-263

LL Sample # WW 7521640
LL Group # 1486637
Account # 06195

Project Name: 1-263

Collected: 07/02/2014 12:05 by BB

PA Dept. of Env. Protection

Rachel Carson Off Bldg 14th Fl

Submitted: 07/03/2014 14:46

PO Box 8471

Reported: 07/11/2014 11:59

Harrisburg PA 17105-8471

P9608 SDG#: PDW96-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04678	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
04678	Pentachlorophenol	87-86-5	N.D.	1	5	1
04678	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
04678	Phenol	108-95-2	N.D.	0.5	1	1
04678	Pyrene	129-00-0	N.D.	0.1	0.5	1
04678	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL purge	1	C141891AA	07/08/2014 23:02	Kevin A Sposito	1
00527	19.5 1,4-Dioxane 8260B SIM	SW-846 8260B SIM	1	E141891AA	07/08/2014 12:32	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141891AA	07/08/2014 12:32	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C141891AA	07/08/2014 23:02	Kevin A Sposito	1
04678	8.37 TCL Semivolatiles/Waters	SW-846 8270C	1	14186WAF026	07/09/2014 06:20	Brian K Graham	1
00813	BNA Water Extraction	SW-846 3510C	1	14186WAF026	07/07/2014 09:30	Anna E Stager	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-6D-LOWER Grab Groundwater
1-263

LL Sample # WW 7521641
LL Group # 1486637
Account # 06195

Project Name: 1-263

Collected: 07/02/2014 13:40 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 11:59

PO Box 8471

Harrisburg PA 17105-8471

P9609 SDG#: PDW96-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	0.3 J	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.2 J	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	0.1 J	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	N.D.	0.5	2.0	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
04678	Anthracene	120-12-7	N.D.	0.1	0.5	1
04678	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
04678	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
04678	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
04678	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
04678	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-6D-LOWER Grab Groundwater
1-263

LL Sample # WW 7521641
LL Group # 1486637
Account # 06195

Project Name: 1-263

Collected: 07/02/2014 13:40 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 11:59

PO Box 8471

Harrisburg PA 17105-8471

P9609 SDG#: PDW96-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
04678	Carbazole	86-74-8	N.D.	0.5	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.5	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
04678	Chrysene	218-01-9	N.D.	0.1	0.5	1
04678	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
04678	Dibenzofuran	132-64-9	N.D.	0.5	1	1
04678	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	1	1
04678	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1	1
04678	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	5	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	5	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	10	31	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
04678	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
04678	Fluorene	86-73-7	N.D.	0.1	0.5	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
04678	Hexachloroethane	67-72-1	N.D.	1	5	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
04678	Isophorone	78-59-1	N.D.	0.5	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
04678	2-Methylphenol	95-48-7	N.D.	0.5	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.5	1	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04678	Naphthalene	91-20-3	N.D.	0.1	0.5	1
04678	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.5	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
04678	4-Nitrophenol	100-02-7	N.D.	10	31	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-6D-LOWER Grab Groundwater
1-263

LL Sample # WW 7521641
LL Group # 1486637
Account # 06195

Project Name: 1-263

Collected: 07/02/2014 13:40 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 11:59

PO Box 8471

Harrisburg PA 17105-8471

P9609 SDG#: PDW96-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04678	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
04678	Pentachlorophenol	87-86-5	N.D.	1	5	1
04678	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
04678	Phenol	108-95-2	N.D.	0.5	1	1
04678	Pyrene	129-00-0	N.D.	0.1	0.5	1
04678	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL purge	1	C141891AA	07/08/2014 23:25	Kevin A Sposito	1
00527	19.5 1,4-Dioxane 8260B SIM	SW-846 8260B SIM	1	E141881AA	07/07/2014 16:58	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141881AA	07/07/2014 16:58	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C141891AA	07/08/2014 23:25	Kevin A Sposito	1
04678	8.37 TCL Semivolatiles/Waters	SW-846 8270C	1	14186WAF026	07/09/2014 06:48	Brian K Graham	1
00813	BNA Water Extraction	SW-846 3510C	1	14186WAF026	07/07/2014 09:30	Anna E Stager	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-7D-LOWER Grab Groundwater
1-263

LL Sample # WW 7521642
LL Group # 1486637
Account # 06195

Project Name: 1-263

Collected: 07/02/2014 14:15 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 11:59

PO Box 8471

Harrisburg PA 17105-8471

P9610 SDG#: PDW96-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	0.4 J	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	0.7	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	0.1 J	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	12	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	2.0	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	56	1.0	5.0	10
02898	cis-1,2-Dichloroethene	156-59-2	6.8	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	0.1 J	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.5	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	24	1.0	5.0	10
02898	1,1,2-Trichloroethane	79-00-5	0.3 J	0.1	0.5	1
02898	Trichloroethene	79-01-6	21	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.3 J	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	34	2.5	10	5
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
04678	Anthracene	120-12-7	N.D.	0.1	0.5	1
04678	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
04678	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
04678	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
04678	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
04678	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-7D-LOWER Grab Groundwater
1-263

LL Sample # WW 7521642

LL Group # 1486637

Account # 06195

Project Name: 1-263

Collected: 07/02/2014 14:15 by BB

PA Dept. of Env. Protection

Rachel Carson Off Bldg 14th Fl

Submitted: 07/03/2014 14:46

PO Box 8471

Reported: 07/11/2014 11:59

Harrisburg PA 17105-8471

P9610 SDG#: PDW96-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
04678	Carbazole	86-74-8	N.D.	0.5	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.5	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
04678	Chrysene	218-01-9	N.D.	0.1	0.5	1
04678	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
04678	Dibenzofuran	132-64-9	N.D.	0.5	1	1
04678	1,2-Dichlorobenzene	95-50-1	7	0.5	1	1
04678	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1	1
04678	1,4-Dichlorobenzene	106-46-7	0.9 J	0.5	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	5	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	5	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	10	31	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
04678	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
04678	Fluorene	86-73-7	N.D.	0.1	0.5	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
04678	Hexachloroethane	67-72-1	N.D.	1	5	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
04678	Isophorone	78-59-1	N.D.	0.5	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
04678	2-Methylphenol	95-48-7	N.D.	0.5	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04678	Naphthalene	91-20-3	N.D.	0.1	0.5	1
04678	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.5	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
04678	4-Nitrophenol	100-02-7	N.D.	10	31	1

*-=This limit was used in the evaluation of the final result

Sample Description: MW-7D-LOWER Grab Groundwater
1-263

LL Sample # WW 7521642
LL Group # 1486637
Account # 06195

Project Name: 1-263

Collected: 07/02/2014 14:15 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 11:59

PO Box 8471

Harrisburg PA 17105-8471

P9610 SDG#: PDW96-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04678	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
04678	Pentachlorophenol	87-86-5	N.D.	1	5	1
04678	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
04678	Phenol	108-95-2	N.D.	0.5	1	1
04678	Pyrene	129-00-0	N.D.	0.1	0.5	1
04678	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL purge	1	C141891AA	07/08/2014 23:47	Kevin A Sposito	1
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL purge	1	C141901AA	07/09/2014 19:16	Jason M Long	10
00527	19.5 1,4-Dioxane 8260B SIM	SW-846 8260B SIM	1	E141882AA	07/07/2014 23:00	Sara E Johnson	5
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141882AA	07/07/2014 23:00	Sara E Johnson	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C141891AA	07/08/2014 23:47	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	3	C141901AA	07/09/2014 19:16	Jason M Long	10
04678	8.37 TCL Semivolatiles/Waters	SW-846 8270C	1	14186WAF026	07/09/2014 16:10	Linda M Hartenstine	1
00813	BNA Water Extraction	SW-846 3510C	1	14186WAF026	07/07/2014 09:30	Anna E Stager	1

*=This limit was used in the evaluation of the final result

Sample Description: Duplicate-3 Grab Groundwater
1-263

LL Sample # WW 7521643
LL Group # 1486637
Account # 06195

Project Name: 1-263

Collected: 07/02/2014 16:00 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 11:59

PO Box 8471

Harrisburg PA 17105-8471

P9611 SDG#: PDW96-11FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	60	100	20
02898	Benzene	71-43-2	13	2.0	10	20
02898	Bromodichloromethane	75-27-4	N.D.	2.0	10	20
02898	Bromoform	75-25-2	N.D.	2.0	10	20
02898	Bromomethane	74-83-9	N.D.	2.0	10	20
02898	2-Butanone	78-93-3	N.D.	20	100	20
02898	Carbon Disulfide	75-15-0	N.D.	8.0	10	20
02898	Carbon Tetrachloride	56-23-5	N.D.	2.0	10	20
02898	Chlorobenzene	108-90-7	160	2.0	10	20
02898	Chloroethane	75-00-3	2.2 J	2.0	10	20
02898	Chloroform	67-66-3	N.D.	2.0	10	20
02898	Chloromethane	74-87-3	N.D.	4.0	10	20
02898	Dibromochloromethane	124-48-1	N.D.	2.0	10	20
02898	1,1-Dichloroethane	75-34-3	130	2.0	10	20
02898	1,2-Dichloroethane	107-06-2	2.1 J	2.0	10	20
02898	1,1-Dichloroethene	75-35-4	57	2.0	10	20
02898	cis-1,2-Dichloroethene	156-59-2	2,600	20	100	200
02898	trans-1,2-Dichloroethene	156-60-5	25	2.0	10	20
02898	1,2-Dichloropropane	78-87-5	N.D.	2.0	10	20
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	2.0	10	20
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	2.0	10	20
02898	Ethylbenzene	100-41-4	N.D.	2.0	10	20
02898	2-Hexanone	591-78-6	N.D.	20	100	20
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	20	100	20
02898	Methylene Chloride	75-09-2	N.D.	4.0	10	20
02898	Styrene	100-42-5	N.D.	2.0	10	20
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	2.0	10	20
02898	Tetrachloroethene	127-18-4	N.D.	2.0	10	20
02898	Toluene	108-88-3	N.D.	2.0	10	20
02898	1,1,1-Trichloroethane	71-55-6	7.3 J	2.0	10	20
02898	1,1,2-Trichloroethane	79-00-5	N.D.	2.0	10	20
02898	Trichloroethene	79-01-6	440	2.0	10	20
02898	Vinyl Chloride	75-01-4	25	2.0	10	20
02898	Xylene (Total)	1330-20-7	N.D.	2.0	10	20
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	75	5.0	20	10
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
04678	Anthracene	120-12-7	0.3 J	0.1	0.5	1
04678	Benzo(a)anthracene	56-55-3	0.8	0.1	0.5	1
04678	Benzo(a)pyrene	50-32-8	0.9	0.1	0.5	1
04678	Benzo(b)fluoranthene	205-99-2	1	0.1	0.5	1
04678	Benzo(g,h,i)perylene	191-24-2	0.6	0.1	0.5	1
04678	Benzo(k)fluoranthene	207-08-9	0.6	0.1	0.5	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: Duplicate-3 Grab Groundwater
1-263

LL Sample # WW 7521643
LL Group # 1486637
Account # 06195

Project Name: 1-263

Collected: 07/02/2014 16:00 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 11:59

PO Box 8471

Harrisburg PA 17105-8471

P9611 SDG#: PDW96-11FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
04678	Carbazole	86-74-8	N.D.	0.5	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.5	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
04678	Chrysene	218-01-9	0.9	0.1	0.5	1
04678	Dibenz(a,h)anthracene	53-70-3	0.1 J	0.1	0.5	1
04678	Dibenzofuran	132-64-9	N.D.	0.5	1	1
04678	1,2-Dichlorobenzene	95-50-1	1,300	52	100	100
04678	1,3-Dichlorobenzene	541-73-1	8	0.5	1	1
04678	1,4-Dichlorobenzene	106-46-7	170	5	10	10
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	5	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	5	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	16	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	10	31	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
04678	Fluoranthene	206-44-0	2	0.1	0.5	1
04678	Fluorene	86-73-7	N.D.	0.1	0.5	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	5	16	1
04678	Hexachloroethane	67-72-1	N.D.	1	5	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.1	0.5	1
04678	Isophorone	78-59-1	N.D.	0.5	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
04678	2-Methylphenol	95-48-7	N.D.	0.5	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04678	Naphthalene	91-20-3	N.D.	0.1	0.5	1
04678	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.5	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
04678	4-Nitrophenol	100-02-7	N.D.	10	31	1

*=This limit was used in the evaluation of the final result

Sample Description: Duplicate-3 Grab Groundwater
1-263

LL Sample # WW 7521643
LL Group # 1486637
Account # 06195

Project Name: 1-263

Collected: 07/02/2014 16:00 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 11:59

PO Box 8471

Harrisburg PA 17105-8471

P9611 SDG#: PDW96-11FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04678	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
04678	Pentachlorophenol	87-86-5	N.D.	1	5	1
04678	Phenanthrene	85-01-8	0.8	0.1	0.5	1
04678	Phenol	108-95-2	N.D.	0.5	1	1
04678	Pyrene	129-00-0	2	0.1	0.5	1
04678	1,2,4-Trichlorobenzene	120-82-1	4	0.5	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL	1	C141891AA	07/09/2014 04:42	Kevin A Sposito	20
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL	1	C141891AA	07/09/2014 05:04	Kevin A Sposito	200
00527	19.5 1,4-Dioxane 8260B	SW-846 8260B SIM	1	E141891AA	07/08/2014 14:38	Jason M Long	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141891AA	07/08/2014 14:38	Jason M Long	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C141891AA	07/09/2014 04:42	Kevin A Sposito	20
01163	GC/MS VOA Water Prep	SW-846 5030B	3	C141891AA	07/09/2014 05:04	Kevin A Sposito	200
04678	8.37 TCL	SW-846 8270C	1	14186WAF026	07/09/2014 16:39	Linda M	1
	Semivolatiles/Waters					Hartenstine	
04678	8.37 TCL	SW-846 8270C	1	14186WAF026	07/10/2014 00:02	Brian K Graham	10
	Semivolatiles/Waters						
04678	8.37 TCL	SW-846 8270C	1	14186WAF026	07/10/2014 00:58	Linda M	100
	Semivolatiles/Waters					Hartenstine	
00813	BNA Water Extraction	SW-846 3510C	1	14186WAF026	07/07/2014 09:30	Anna E Stager	1

*=This limit was used in the evaluation of the final result

Sample Description: Rinsate-3 Grab Water
1-263

LL Sample # WW 7521644
LL Group # 1486637
Account # 06195

Project Name: 1-263

Collected: 07/02/2014 10:40 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 11:59

PO Box 8471

Harrisburg PA 17105-8471

P9612 SDG#: PDW96-12RB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	N.D.	0.5	2.0	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	0.6	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.6	1
04678	Anthracene	120-12-7	N.D.	0.1	0.6	1
04678	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.6	1
04678	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.6	1
04678	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.6	1
04678	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.6	1
04678	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.6	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.6	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	6	1

*=This limit was used in the evaluation of the final result

Sample Description: Rinsate-3 Grab Water
1-263

LL Sample # WW 7521644
LL Group # 1486637
Account # 06195

Project Name: 1-263

Collected: 07/02/2014 10:40 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 11:59

PO Box 8471

Harrisburg PA 17105-8471

P9612 SDG#: PDW96-12RB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	6	1
04678	Carbazole	86-74-8	N.D.	0.6	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.6	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.6	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.6	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.6	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.5	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.6	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.6	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.6	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
04678	Chrysene	218-01-9	N.D.	0.1	0.6	1
04678	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.6	1
04678	Dibenzofuran	132-64-9	N.D.	0.6	1	1
04678	1,2-Dichlorobenzene	95-50-1	N.D.	0.6	1	1
04678	1,3-Dichlorobenzene	541-73-1	N.D.	0.6	1	1
04678	1,4-Dichlorobenzene	106-46-7	N.D.	0.6	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	6	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.6	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	6	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.6	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	6	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	6	19	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	12	37	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	6	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.6	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	6	1
04678	Fluoranthene	206-44-0	N.D.	0.1	0.6	1
04678	Fluorene	86-73-7	N.D.	0.1	0.6	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.6	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.6	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	6	19	1
04678	Hexachloroethane	67-72-1	N.D.	1	6	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.6	1
04678	Isophorone	78-59-1	N.D.	0.6	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.6	1
04678	2-Methylphenol	95-48-7	N.D.	0.6	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.6	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04678	Naphthalene	91-20-3	N.D.	0.1	0.6	1
04678	2-Nitroaniline	88-74-4	N.D.	0.6	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.6	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.6	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.6	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.6	1	1
04678	4-Nitrophenol	100-02-7	N.D.	12	37	1

*=This limit was used in the evaluation of the final result

Sample Description: Rinsate-3 Grab Water
1-263

LL Sample # WW 7521644
LL Group # 1486637
Account # 06195

Project Name: 1-263

Collected: 07/02/2014 10:40 by BB

PA Dept. of Env. Protection

Rachel Carson Off Bldg 14th Fl

Submitted: 07/03/2014 14:46

PO Box 8471

Reported: 07/11/2014 11:59

Harrisburg PA 17105-8471

P9612 SDG#: PDW96-12RB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles SW-846 8270C		ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.6	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.6	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04678	Di-n-octylphthalate	117-84-0	N.D.	2	6	1
04678	Pentachlorophenol	87-86-5	N.D.	1	6	1
04678	Phenanthrene	85-01-8	N.D.	0.1	0.6	1
04678	Phenol	108-95-2	N.D.	0.6	1	1
04678	Pyrene	129-00-0	N.D.	0.1	0.6	1
04678	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.6	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.6	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.6	1	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL purge	1	C141891AA	07/08/2014 20:46	Kevin A Sposito	1
00527	19.5 1,4-Dioxane 8260B SIM	SW-846 8260B SIM	1	E141881AA	07/07/2014 12:08	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141881AA	07/07/2014 12:08	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C141891AA	07/08/2014 20:46	Kevin A Sposito	1
04678	8.37 TCL Semivolatiles/Waters	SW-846 8270C	1	14186WAF026	07/09/2014 18:04	Linda M Hartenstine	1
00813	BNA Water Extraction	SW-846 3510C	1	14186WAF026	07/07/2014 09:30	Anna E Stager	1

*=This limit was used in the evaluation of the final result

Sample Description: Trip-2 Water
1-263

LL Sample # WW 7521645
LL Group # 1486637
Account # 06195

Project Name: 1-263

Collected: 07/02/2014

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 11:59

PO Box 8471

Harrisburg PA 17105-8471

P9613 SDG#: PDW96-13TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	N.D.	0.5	2.0	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: Trip-2 Water
1-263

LL Sample # WW 7521645
LL Group # 1486637
Account # 06195

Project Name: 1-263

Collected: 07/02/2014

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 11:59

PO Box 8471

Harrisburg PA 17105-8471

P9613 SDG#: PDW96-13TB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL purge	1	C141891AA	07/08/2014 21:08	Kevin A Sposito	1
00527	19.5 1,4-Dioxane 8260B SIM	SW-846 8260B SIM	1	E141881AA	07/07/2014 11:26	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E141881AA	07/07/2014 11:26	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C141891AA	07/08/2014 21:08	Kevin A Sposito	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: PA Dept. of Env. Protection
Reported: 07/11/14 at 11:59 AM

Group Number: 1486637

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: C141891AA Sample number(s): 7521633-7521645									
Acetone	N.D.	3.0	5.0	ug/l	94	90	60-139	4	30
Benzene	N.D.	0.1	0.5	ug/l	101	100	80-120	1	30
Bromodichloromethane	N.D.	0.1	0.5	ug/l	115	112	80-120	3	30
Bromoform	N.D.	0.1	0.5	ug/l	113	113	72-138	0	30
Bromomethane	N.D.	0.1	0.5	ug/l	109	107	62-126	3	30
2-Butanone	N.D.	1.0	5.0	ug/l	92	89	63-137	3	30
Carbon Disulfide	N.D.	0.4	0.5	ug/l	111	109	80-120	2	30
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	128	126	80-135	2	30
Chlorobenzene	N.D.	0.1	0.5	ug/l	103	104	80-120	0	30
Chloroethane	N.D.	0.1	0.5	ug/l	101	103	68-120	2	30
Chloroform	N.D.	0.1	0.5	ug/l	108	108	80-120	0	30
Chloromethane	N.D.	0.2	0.5	ug/l	105	104	55-120	1	30
Dibromochloromethane	N.D.	0.1	0.5	ug/l	121	119	80-126	2	30
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	102	101	80-120	1	30
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	112	112	80-127	0	30
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	109	107	80-123	2	30
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	105	104	80-120	0	30
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	108	106	80-120	2	30
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	101	99	80-120	1	30
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	108	107	80-120	1	30
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	114	114	80-120	0	30
Ethylbenzene	N.D.	0.1	0.5	ug/l	102	101	80-120	1	30
2-Hexanone	N.D.	1.0	5.0	ug/l	94	95	62-128	1	30
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	95	94	69-135	1	30
Methylene Chloride	N.D.	0.2	0.5	ug/l	97	95	80-120	2	30
Styrene	N.D.	0.1	0.5	ug/l	103	102	80-120	1	30
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	94	97	80-120	3	30
Tetrachloroethene	N.D.	0.1	0.5	ug/l	108	109	80-120	0	30
Toluene	N.D.	0.1	0.5	ug/l	101	101	80-120	0	30
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	117	116	80-120	1	30
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	101	101	80-120	0	30
Trichloroethene	N.D.	0.1	0.5	ug/l	107	106	80-120	2	30
Vinyl Chloride	N.D.	0.1	0.5	ug/l	109	109	59-124	1	30
Xylene (Total)	N.D.	0.1	0.5	ug/l	103	103	80-120	0	30
Batch number: C141901AA Sample number(s): 7521638-7521639,7521642									
Acetone	N.D.	3.0	5.0	ug/l	99	104	60-139	5	30
Benzene	N.D.	0.1	0.5	ug/l	100	100	80-120	0	30
Bromodichloromethane	N.D.	0.1	0.5	ug/l	113	114	80-120	1	30
Bromoform	N.D.	0.1	0.5	ug/l	111	111	72-138	1	30
Bromomethane	N.D.	0.1	0.5	ug/l	111	110	62-126	1	30
2-Butanone	N.D.	1.0	5.0	ug/l	95	101	63-137	5	30
Carbon Disulfide	N.D.	0.4	0.5	ug/l	108	107	80-120	1	30

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control SummaryClient Name: PA Dept. of Env. Protection
Reported: 07/11/14 at 11:59 AM

Group Number: 1486637

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	119	118	80-135	1	30
Chlorobenzene	N.D.	0.1	0.5	ug/l	101	101	80-120	0	30
Chloroethane	N.D.	0.1	0.5	ug/l	110	110	68-120	1	30
Chloroform	N.D.	0.1	0.5	ug/l	108	107	80-120	1	30
Chloromethane	N.D.	0.2	0.5	ug/l	114	114	55-120	0	30
Dibromochloromethane	N.D.	0.1	0.5	ug/l	119	119	80-126	0	30
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	105	104	80-120	1	30
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	115	115	80-127	0	30
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	102	101	80-123	1	30
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	102	102	80-120	0	30
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	106	104	80-120	2	30
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	103	103	80-120	0	30
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	108	109	80-120	1	30
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	117	115	80-120	2	30
Ethylbenzene	N.D.	0.1	0.5	ug/l	102	102	80-120	0	30
2-Hexanone	N.D.	1.0	5.0	ug/l	104	107	62-128	3	30
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	102	104	69-135	1	30
Methylene Chloride	N.D.	0.2	0.5	ug/l	97	95	80-120	2	30
Styrene	N.D.	0.1	0.5	ug/l	103	103	80-120	0	30
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	100	100	80-120	0	30
Tetrachloroethene	N.D.	0.1	0.5	ug/l	103	102	80-120	1	30
Toluene	N.D.	0.1	0.5	ug/l	101	101	80-120	0	30
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	113	110	80-120	2	30
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	102	102	80-120	1	30
Trichloroethene	N.D.	0.1	0.5	ug/l	105	104	80-120	1	30
Vinyl Chloride	N.D.	0.1	0.5	ug/l	115	114	59-124	1	30
Xylene (Total)	N.D.	0.1	0.5	ug/l	102	102	80-120	0	30
Batch number: E141881AA	Sample number(s): 7521634, 7521641, 7521644-7521645								
1,4-Dioxane	N.D.	0.5	2.0	ug/l	106	109	80-123	3	30
Batch number: E141882AA	Sample number(s): 7521633, 7521642								
1,4-Dioxane	N.D.	0.5	2.0	ug/l	103	104	80-123	1	30
Batch number: E141891AA	Sample number(s): 7521635-7521640, 7521643								
1,4-Dioxane	N.D.	0.5	2.0	ug/l	108	104	80-123	3	30
Batch number: 14186WAF026	Sample number(s): 7521633-7521644								
Acenaphthene	N.D.	0.1	0.5	ug/l	96	100	80-112	4	30
Acenaphthylene	N.D.	0.1	0.5	ug/l	107	111	84-125	4	30
Anthracene	N.D.	0.1	0.5	ug/l	95	98	82-116	3	30
Benzo(a)anthracene	N.D.	0.1	0.5	ug/l	98	100	81-126	2	30
Benzo(a)pyrene	N.D.	0.1	0.5	ug/l	92	95	82-116	3	30
Benzo(b)fluoranthene	N.D.	0.1	0.5	ug/l	95	99	82-121	4	30
Benzo(g,h,i)perylene	N.D.	0.1	0.5	ug/l	95	101	76-128	6	30
Benzo(k)fluoranthene	N.D.	0.1	0.5	ug/l	93	97	81-122	4	30
4-Bromophenyl-phenylether	N.D.	0.5	1	ug/l	94	98	82-118	3	30
Butylbenzylphthalate	N.D.	2.	5	ug/l	97	101	79-119	4	30
Di-n-butylphthalate	N.D.	2.	5	ug/l	97	99	80-119	2	30
Carbazole	N.D.	0.5	1	ug/l	99	100	84-117	1	30
4-Chloro-3-methylphenol	N.D.	0.5	1	ug/l	100	106	80-123	6	30
4-Chloroaniline	N.D.	0.5	1	ug/l	83	98	55-113	17	30
bis(2-Chloroethoxy)methane	N.D.	0.5	1	ug/l	98	101	77-115	3	30
bis(2-Chloroethyl)ether	N.D.	0.5	1	ug/l	95	98	78-112	3	30
2-Chloronaphthalene	N.D.	0.4	1	ug/l	88	90	71-120	3	30
2-Chlorophenol	N.D.	0.5	1	ug/l	94	97	76-111	3	30

*- Outside of specification

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(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control SummaryClient Name: PA Dept. of Env. Protection
Reported: 07/11/14 at 11:59 AM

Group Number: 1486637

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
4-Chlorophenyl-phenylether	N.D.	0.5	1	ug/l	95	98	77-114	4	30
2,2'-oxybis(1-Chloropropane)	N.D.	0.5	1	ug/l	98	100	60-118	1	30
Chrysene	N.D.	0.1	0.5	ug/l	100	102	81-120	3	30
Dibenz(a,h)anthracene	N.D.	0.1	0.5	ug/l	96	102	83-124	6	30
Dibenzofuran	N.D.	0.5	1	ug/l	95	97	81-110	2	30
1,2-Dichlorobenzene	N.D.	0.5	1	ug/l	96	98	69-107	2	30
1,3-Dichlorobenzene	N.D.	0.5	1	ug/l	92	94	69-107	2	30
1,4-Dichlorobenzene	N.D.	0.5	1	ug/l	94	96	66-111	2	30
3,3'-Dichlorobenzidine	N.D.	2.	5	ug/l	70	87	47-108	22	30
2,4-Dichlorophenol	N.D.	0.5	1	ug/l	98	103	84-119	5	30
Diethylphthalate	N.D.	2.	5	ug/l	98	100	70-118	3	30
2,4-Dimethylphenol	N.D.	0.5	1	ug/l	91	95	81-114	4	30
Dimethylphthalate	N.D.	2.	5	ug/l	95	100	43-128	5	30
4,6-Dinitro-2-methylphenol	N.D.	5.	15	ug/l	95	97	56-145	2	30
2,4-Dinitrophenol	N.D.	10.	30	ug/l	75	82	32-148	9	30
2,4-Dinitrotoluene	N.D.	1.	5	ug/l	106	109	84-126	3	30
2,6-Dinitrotoluene	N.D.	0.5	1	ug/l	105	108	81-124	2	30
bis(2-Ethylhexyl)phthalate	N.D.	2.	5	ug/l	98	103	78-124	4	30
Fluoranthene	N.D.	0.1	0.5	ug/l	97	98	82-121	1	30
Fluorene	N.D.	0.1	0.5	ug/l	96	99	80-117	3	30
Hexachlorobenzene	N.D.	0.1	0.5	ug/l	92	94	80-119	3	30
Hexachlorobutadiene	N.D.	0.5	1	ug/l	88	93	61-120	7	30
Hexachlorocyclopentadiene	N.D.	5.	15	ug/l	71	69	28-133	3	30
Hexachloroethane	N.D.	1.	5	ug/l	94	96	55-109	2	30
Indeno(1,2,3-cd)pyrene	N.D.	0.1	0.5	ug/l	92	97	80-126	5	30
Isophorone	N.D.	0.5	1	ug/l	105	108	82-119	3	30
2-Methylnaphthalene	N.D.	0.1	0.5	ug/l	88	92	75-106	4	30
2-Methylphenol	N.D.	0.5	1	ug/l	94	97	72-111	4	30
4-Methylphenol	N.D.	0.5	1	ug/l	89	94	63-110	6	30
Naphthalene	N.D.	0.1	0.5	ug/l	93	97	75-108	4	30
2-Nitroaniline	N.D.	0.5	1	ug/l	96	96	84-122	0	30
3-Nitroaniline	N.D.	0.5	1	ug/l	86	92	70-118	6	30
4-Nitroaniline	N.D.	0.5	1	ug/l	82	88	66-110	7	30
Nitrobenzene	N.D.	0.5	1	ug/l	97	99	77-119	2	30
2-Nitrophenol	N.D.	0.5	1	ug/l	97	100	81-128	2	30
4-Nitrophenol	N.D.	10.	30	ug/l	63	61	25-95	2	30
N-Nitroso-di-n-propylamine	N.D.	0.5	1	ug/l	101	101	71-117	0	30
N-Nitrosodiphenylamine	N.D.	0.5	1	ug/l	100	104	80-115	5	30
Di-n-octylphthalate	N.D.	2.	5	ug/l	102	106	78-129	4	30
Pentachlorophenol	N.D.	1.	5	ug/l	97	97	54-124	0	30
Phenanthrene	N.D.	0.1	0.5	ug/l	93	95	81-114	2	30
Phenol	N.D.	0.5	1	ug/l	57	59	31-79	3	30
Pyrene	N.D.	0.1	0.5	ug/l	94	97	81-112	3	30
1,2,4-Trichlorobenzene	N.D.	0.5	1	ug/l	89	94	77-111	5	30
2,4,5-Trichlorophenol	N.D.	0.5	1	ug/l	102	102	81-121	1	30
2,4,6-Trichlorophenol	N.D.	0.5	1	ug/l	95	97	84-119	2	30

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification

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(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: PA Dept. of Env. Protection
Reported: 07/11/14 at 11:59 AM

Group Number: 1486637

Surrogate Quality Control

Analysis Name: 7.1 Low Level VOCs 8260B
Batch number: C141891AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7521633	108	104	98	97
7521634	108	103	98	97
7521635	107	101	99	99
7521636	106	101	99	97
7521637	107	101	99	98
7521640	109	104	98	97
7521641	109	103	98	99
7521642	110	103	98	97
7521643	108	101	99	99
7521644	109	103	98	97
7521645	108	102	98	98
Blank	107	102	98	98
LCS	107	102	99	102
LCSD	106	101	100	101
Limits:	77-114	74-113	77-110	78-110

Analysis Name: 7.1 Low Level VOCs 8260B
Batch number: C141901AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7521638	106	104	99	100
7521639	106	100	99	100
Blank	107	104	99	99
LCS	105	102	101	102
LCSD	105	100	101	103
Limits:	77-114	74-113	77-110	78-110

Analysis Name: 19.5 1,4-Dioxane 8260B SIM
Batch number: E141881AA

	Toluene-d8
7521634	94
7521641	94
7521644	95
7521645	95
Blank	96
LCS	96
LCSD	95
Limits:	80-120

Analysis Name: 19.5 1,4-Dioxane 8260B SIM
Batch number: E141882AA

	Toluene-d8
7521633	94
7521642	94
Blank	94
LCS	94

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: PA Dept. of Env. Protection

Group Number: 1486637

Reported: 07/11/14 at 11:59 AM

Surrogate Quality Control

LCSD 94

Limits: 80-120

Analysis Name: 19.5 1,4-Dioxane 8260B SIM

Batch number: E141891AA

Toluene-d8

7521635 93
7521636 93
7521637 93
7521638 93
7521639 92
7521640 94
7521643 93
Blank 94
LCS 93
LCSD 93

Limits: 80-120

Analysis Name: 8.37 TCL Semivolatiles/Waters

Batch number: 14186WAF026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7521633	64	48	98	92	91	104
7521634	64	49	93	95	91	83
7521635	70	62	93	93	88	93
7521636	66	52	94	91	88	90
7521637	68	56	95	93	89	92
7521638	74	65	99	91	91	92
7521639	67	60	97	87	86	98
7521640	66	56	90	91	89	86
7521641	64	51	93	93	91	92
7521642	58	50	89	88	84	76
7521643	63	50	94	92	89	89
7521644	69	50	91	95	94	106
Blank	62	47	92	90	89	97
LCS	70	53	97	95	92	95
LCSD	71	54	97	97	95	102
Limits:	10-107	10-83	22-150	60-123	67-116	53-139

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 6195 For Eurofins Lancaster Laboratories Environmental use only
Group # 1486637 Sample # 7521633-45
Instructions on reverse side correspond with circled numbers.

COC # 347465 5-1

1 Client Information				4 Matrix				5 Analysis Requested												For Lab Use Only	
Client: <u>PADEP</u>		Acct. #: <u>06195</u>		☒ Sediment ☒ Ground ☐ Surface ☐ Potable ☐ Water ☐ NPDES ☐ Other:				Preservation Codes H H I VOC's (8260B) (SIM) (8260B) 1-4-Dioxane (SIM) (8260B) TCL Semi-volatiles												FSC: _____	
Project Name/ #: <u>1-263 Hoff UL</u>		PWSID #: _____						SCR#: _____													
Project Manager: <u>Colin Wade</u>		P.O. #: _____		Total # of Containers Low level VOC's (8260B) 1-4-Dioxane (SIM) (8260B) TCL Semi-volatiles				Preservation Codes H=HCl T=Thiosulfate N=HNO ₃ B=NaOH S=H ₂ SO ₄ O=Other												6 Remarks	
Sampler: <u>Leppos</u>		Quote #: <u>157886</u>																			
Name of state where samples were collected: <u>PA</u>				3 Grab Composite Soil ☐ Water ☐ Other:																	
2 Sample Identification		Collected																			
		Date	Time	Grab	Composite																
OW-4- Lower		7/2/14	0905	X				8	3	3	2										
OW-4- UPPER			1020	X				8	3	3	2										
MW-4			0920	X				8	3	3	2										
MW-4D- Lower			0945	X				8	3	3	2										
MW-4D- UPPER			1140	X				8	3	3	2										
MW-14			1111	X				8	3	3	2										
MW-8			1230	X				8	3	3	2										
MW-6D- UPPER			1205	X				8	3	3	2										
MW-6D- Lower			1340	X				8	3	3	2										
MW-7D- Lower			1415	X				8	3	3	2										

7 Turnaround Time (TAT) Requested (please circle) Standard _____ Rush <u>(circled)</u> (Rush TAT is subject to laboratory approval and surcharge.) Date results are needed: <u>1 WEEK</u> E-mail address: <u>COWade@Pa.Gov</u>				Relinquished by <u>Billie Bullock (Lades)</u>		Date <u>7/2/14</u>	Time <u>12:30</u>	Received by <u>Harry Weger</u>		Date <u>7/3/14</u>	Time <u>12:30</u>
				Relinquished by <u>Harry Weger</u>		Date <u>7/3/14</u>	Time <u>14:46</u>	Received by		Date	Time
8 Data Package Options (circle if required) Type I (Validation/non-CLP) Type VI (Raw Data Only) Type III (Reduced non-CLP) TX TRRP-13 Type IV (CLP SOW) MA MCP CT RCP				Relinquished by		Date	Time	Received by		Date	Time
				Relinquished by		Date	Time	Received by		Date	Time
EDD Required? Yes No If yes, format: _____ Site-Specific QC (MS/MSD/Dup)? Yes No (If yes, indicate QC sample and submit triplicate sample volume.)				Relinquished by Commercial Carrier:		UPS _____ FedEx _____ Other _____		Temperature upon receipt <u>0.9-1.1</u> °C			

Acct. # 6195

Group # 1486637 Sample # 7521633-45

Instructions on reverse side correspond with circled numbers

COC #3474675-1

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but $\geq$ IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

PA Dept. of Env. Protection
Rachel Carson Off Bldg 14th Fl
PO Box 8471
Harrisburg PA 17105-8471

July 11, 2014

Project: 1-263

Submittal Date: 07/03/2014
Group Number: 1486638
SDG: PDW97
PO Number: 4000016590
Release Number: 1-263
State of Sample Origin: PAClient Sample DescriptionMW-7D-UPPER Grab Groundwater
MW-5D-LOWER Grab Groundwater
MW-5D-UPPER Grab Groundwater
Duplicate-4 Grab Groundwater
Rinsate-4 Grab Water
Trip-3 WaterLancaster Labs (LL) #7521646
7521647
7521648
7521649
7521650
7521651

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

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PA Dept. of Env. Protection
PA Dept. of Env. ProtectionAttn: Richard L Merhar
Attn: Ann Asbury
Attn: Colin Wade

Respectfully Submitted,



Katherine A. Klinefelter
Principal Specialist

(717) 556-7256

Sample Description: MW-7D-UPPER Grab Groundwater
1-263

LL Sample # WW 7521646
LL Group # 1486638
Account # 06195

Project Name: 1-263

Collected: 07/03/2014 09:30 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 12:01

PO Box 8471

Harrisburg PA 17105-8471

P9701 SDG#: PDW97-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	0.1 J	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.7	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.2 J	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	0.3 J	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	5.5	0.5	2.0	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
04678	Anthracene	120-12-7	N.D.	0.1	0.5	1
04678	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
04678	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
04678	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
04678	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
04678	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-7D-UPPER Grab Groundwater
1-263

LL Sample # WW 7521646
LL Group # 1486638
Account # 06195

Project Name: 1-263

Collected: 07/03/2014 09:30 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 12:01

PO Box 8471

Harrisburg PA 17105-8471

P9701 SDG#: PDW97-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
04678	Carbazole	86-74-8	N.D.	0.5	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.5	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
04678	Chrysene	218-01-9	N.D.	0.1	0.5	1
04678	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
04678	Dibenzofuran	132-64-9	N.D.	0.5	1	1
04678	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	1	1
04678	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1	1
04678	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	5	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	5	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	10	30	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
04678	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
04678	Fluorene	86-73-7	N.D.	0.1	0.5	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
04678	Hexachloroethane	67-72-1	N.D.	1	5	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
04678	Isophorone	78-59-1	N.D.	0.5	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
04678	2-Methylphenol	95-48-7	N.D.	0.5	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.5	1	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04678	Naphthalene	91-20-3	N.D.	0.1	0.5	1
04678	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.5	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
04678	4-Nitrophenol	100-02-7	N.D.	10	30	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-7D-UPPER Grab Groundwater
1-263

LL Sample # WW 7521646
LL Group # 1486638
Account # 06195

Project Name: 1-263

Collected: 07/03/2014 09:30 by BB

PA Dept. of Env. Protection

Rachel Carson Off Bldg 14th Fl

Submitted: 07/03/2014 14:46

PO Box 8471

Reported: 07/11/2014 12:01

Harrisburg PA 17105-8471

P9701 SDG#: PDW97-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04678	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
04678	Pentachlorophenol	87-86-5	N.D.	1	5	1
04678	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
04678	Phenol	108-95-2	N.D.	0.5	1	1
04678	Pyrene	129-00-0	N.D.	0.1	0.5	1
04678	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL purge	1	I141882AA	07/07/2014 19:11	Jason M Long	1
00527	19.5 1,4-Dioxane 8260B SIM	SW-846 8260B SIM	1	E141882AA	07/07/2014 23:41	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I141882AA	07/07/2014 19:11	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E141882AA	07/07/2014 23:41	Sara E Johnson	1
04678	8.37 TCL Semivolatiles/Waters	SW-846 8270C	1	14186WAF026	07/09/2014 18:32	Linda M Hartenstine	1
00813	BNA Water Extraction	SW-846 3510C	1	14186WAF026	07/07/2014 09:30	Anna E Stager	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-5D-LOWER Grab Groundwater
1-263

LL Sample # WW 7521647
LL Group # 1486638
Account # 06195

Project Name: 1-263

Collected: 07/03/2014 10:55 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 12:01

PO Box 8471

Harrisburg PA 17105-8471

P9702 SDG#: PDW97-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	0.2 J	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	0.4 J	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	5.8	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 J	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	3.4	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	15	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	0.2 J	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	7.4	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	1.5	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	3.1	0.5	2.0	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
04678	Anthracene	120-12-7	N.D.	0.1	0.5	1
04678	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
04678	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
04678	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
04678	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
04678	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-5D-LOWER Grab Groundwater
1-263

LL Sample # WW 7521647
LL Group # 1486638
Account # 06195

Project Name: 1-263

Collected: 07/03/2014 10:55 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 12:01

PO Box 8471

Harrisburg PA 17105-8471

P9702 SDG#: PDW97-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
04678	Carbazole	86-74-8	N.D.	0.5	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.5	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
04678	Chrysene	218-01-9	N.D.	0.1	0.5	1
04678	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
04678	Dibenzofuran	132-64-9	N.D.	0.5	1	1
04678	1,2-Dichlorobenzene	95-50-1	6	0.5	1	1
04678	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1	1
04678	1,4-Dichlorobenzene	106-46-7	0.7 J	0.5	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	5	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	5	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	16	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	11	32	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
04678	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
04678	Fluorene	86-73-7	N.D.	0.1	0.5	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	5	16	1
04678	Hexachloroethane	67-72-1	N.D.	1	5	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
04678	Isophorone	78-59-1	N.D.	0.5	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
04678	2-Methylphenol	95-48-7	N.D.	0.5	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04678	Naphthalene	91-20-3	N.D.	0.1	0.5	1
04678	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.5	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
04678	4-Nitrophenol	100-02-7	N.D.	11	32	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-5D-LOWER Grab Groundwater
1-263

LL Sample # WW 7521647
LL Group # 1486638
Account # 06195

Project Name: 1-263

Collected: 07/03/2014 10:55 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 12:01

PO Box 8471

Harrisburg PA 17105-8471

P9702 SDG#: PDW97-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04678	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
04678	Pentachlorophenol	87-86-5	N.D.	1	5	1
04678	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
04678	Phenol	108-95-2	N.D.	0.5	1	1
04678	Pyrene	129-00-0	N.D.	0.1	0.5	1
04678	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL purge	1	I141882AA	07/07/2014 19:34	Jason M Long	1
00527	19.5 1,4-Dioxane 8260B SIM	SW-846 8260B SIM	1	E141882AA	07/08/2014 00:01	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I141882AA	07/07/2014 19:34	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E141882AA	07/08/2014 00:01	Sara E Johnson	1
04678	8.37 TCL Semivolatiles/Waters	SW-846 8270C	1	14186WAF026	07/09/2014 19:01	Linda M Hartenstine	1
00813	BNA Water Extraction	SW-846 3510C	1	14186WAF026	07/07/2014 09:30	Anna E Stager	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-5D-UPPER Grab Groundwater
1-263

LL Sample # WW 7521648
LL Group # 1486638
Account # 06195

Project Name: 1-263

Collected: 07/03/2014 11:45 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 12:01

PO Box 8471

Harrisburg PA 17105-8471

P9703 SDG#: PDW97-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.4 J	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.9	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	0.3 J	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	1.2	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	0.5	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	2.9	0.5	2.0	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
04678	Anthracene	120-12-7	N.D.	0.1	0.5	1
04678	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
04678	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
04678	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
04678	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
04678	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-5D-UPPER Grab Groundwater
1-263

LL Sample # WW 7521648
LL Group # 1486638
Account # 06195

Project Name: 1-263

Collected: 07/03/2014 11:45 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 12:01

PO Box 8471

Harrisburg PA 17105-8471

P9703 SDG#: PDW97-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
04678	Carbazole	86-74-8	N.D.	0.5	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.5	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
04678	Chrysene	218-01-9	N.D.	0.1	0.5	1
04678	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
04678	Dibenzofuran	132-64-9	N.D.	0.5	1	1
04678	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	1	1
04678	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1	1
04678	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	5	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	5	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	16	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	10	31	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
04678	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
04678	Fluorene	86-73-7	N.D.	0.1	0.5	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	5	16	1
04678	Hexachloroethane	67-72-1	N.D.	1	5	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
04678	Isophorone	78-59-1	N.D.	0.5	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
04678	2-Methylphenol	95-48-7	N.D.	0.5	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.5	1	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04678	Naphthalene	91-20-3	N.D.	0.1	0.5	1
04678	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.5	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
04678	4-Nitrophenol	100-02-7	N.D.	10	31	1

*=This limit was used in the evaluation of the final result

Sample Description: MW-5D-UPPER Grab Groundwater
1-263

LL Sample # WW 7521648
LL Group # 1486638
Account # 06195

Project Name: 1-263

Collected: 07/03/2014 11:45 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 12:01

PO Box 8471

Harrisburg PA 17105-8471

P9703 SDG#: PDW97-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04678	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
04678	Pentachlorophenol	87-86-5	N.D.	1	5	1
04678	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
04678	Phenol	108-95-2	N.D.	0.5	1	1
04678	Pyrene	129-00-0	N.D.	0.1	0.5	1
04678	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL purge	1	I141882AA	07/07/2014 19:56	Jason M Long	1
00527	19.5 1,4-Dioxane 8260B SIM	SW-846 8260B SIM	1	E141882AA	07/08/2014 00:21	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I141882AA	07/07/2014 19:56	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E141882AA	07/08/2014 00:21	Sara E Johnson	1
04678	8.37 TCL Semivolatiles/Waters	SW-846 8270C	1	14186WAF026	07/09/2014 19:29	Linda M Hartenstine	1
00813	BNA Water Extraction	SW-846 3510C	1	14186WAF026	07/07/2014 09:30	Anna E Stager	1

*=This limit was used in the evaluation of the final result

Sample Description: Duplicate-4 Grab Groundwater
1-263

LL Sample # WW 7521649
LL Group # 1486638
Account # 06195

Project Name: 1-263

Collected: 07/03/2014 18:00 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 12:01

PO Box 8471

Harrisburg PA 17105-8471

P9704 SDG#: PDW97-04FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.4 J	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.9	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	0.3 J	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	1.2	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	0.5	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	2.9	0.5	2.0	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
04678	Anthracene	120-12-7	N.D.	0.1	0.5	1
04678	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
04678	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
04678	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
04678	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
04678	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: Duplicate-4 Grab Groundwater
1-263

LL Sample # WW 7521649
LL Group # 1486638
Account # 06195

Project Name: 1-263

Collected: 07/03/2014 18:00 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 12:01

PO Box 8471

Harrisburg PA 17105-8471

P9704 SDG#: PDW97-04FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
04678	Carbazole	86-74-8	N.D.	0.5	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.5	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
04678	Chrysene	218-01-9	N.D.	0.1	0.5	1
04678	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
04678	Dibenzofuran	132-64-9	N.D.	0.5	1	1
04678	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	1	1
04678	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1	1
04678	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	5	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	5	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	10	30	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
04678	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
04678	Fluorene	86-73-7	N.D.	0.1	0.5	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
04678	Hexachloroethane	67-72-1	N.D.	1	5	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
04678	Isophorone	78-59-1	N.D.	0.5	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
04678	2-Methylphenol	95-48-7	N.D.	0.5	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.5	1	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04678	Naphthalene	91-20-3	N.D.	0.1	0.5	1
04678	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.5	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
04678	4-Nitrophenol	100-02-7	N.D.	10	30	1

*=This limit was used in the evaluation of the final result

Sample Description: Duplicate-4 Grab Groundwater
1-263

LL Sample # WW 7521649
LL Group # 1486638
Account # 06195

Project Name: 1-263

Collected: 07/03/2014 18:00 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 12:01

PO Box 8471

Harrisburg PA 17105-8471

P9704 SDG#: PDW97-04FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04678	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
04678	Pentachlorophenol	87-86-5	N.D.	1	5	1
04678	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
04678	Phenol	108-95-2	N.D.	0.5	1	1
04678	Pyrene	129-00-0	N.D.	0.1	0.5	1
04678	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL purge	1	I141882AA	07/07/2014 20:18	Jason M Long	1
00527	19.5 1,4-Dioxane 8260B SIM	SW-846 8260B SIM	1	E141882AA	07/08/2014 00:42	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I141882AA	07/07/2014 20:18	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E141882AA	07/08/2014 00:42	Sara E Johnson	1
04678	8.37 TCL Semivolatiles/Waters	SW-846 8270C	1	14186WAF026	07/09/2014 19:57	Linda M Hartenstine	1
00813	BNA Water Extraction	SW-846 3510C	1	14186WAF026	07/07/2014 09:30	Anna E Stager	1

*=This limit was used in the evaluation of the final result

Sample Description: Rinsate-4 Grab Water
1-263

LL Sample # WW 7521650
LL Group # 1486638
Account # 06195

Project Name: 1-263

Collected: 07/03/2014 11:05 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 12:01

PO Box 8471

Harrisburg PA 17105-8471

P9705 SDG#: PDW97-05RB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	N.D.	0.5	2.0	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Acenaphthene	83-32-9	N.D.	0.1	0.5	1
04678	Acenaphthylene	208-96-8	N.D.	0.1	0.5	1
04678	Anthracene	120-12-7	N.D.	0.1	0.5	1
04678	Benzo(a)anthracene	56-55-3	N.D.	0.1	0.5	1
04678	Benzo(a)pyrene	50-32-8	N.D.	0.1	0.5	1
04678	Benzo(b)fluoranthene	205-99-2	N.D.	0.1	0.5	1
04678	Benzo(g,h,i)perylene	191-24-2	N.D.	0.1	0.5	1
04678	Benzo(k)fluoranthene	207-08-9	N.D.	0.1	0.5	1
04678	4-Bromophenyl-phenylether	101-55-3	N.D.	0.5	1	1
04678	Butylbenzylphthalate	85-68-7	N.D.	2	5	1

*=This limit was used in the evaluation of the final result

Sample Description: Rinsate-4 Grab Water
1-263

LL Sample # WW 7521650
LL Group # 1486638
Account # 06195

Project Name: 1-263

Collected: 07/03/2014 11:05 by BB

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 12:01

PO Box 8471

Harrisburg PA 17105-8471

P9705 SDG#: PDW97-05RB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	Di-n-butylphthalate	84-74-2	N.D.	2	5	1
04678	Carbazole	86-74-8	N.D.	0.5	1	1
04678	4-Chloro-3-methylphenol	59-50-7	N.D.	0.5	1	1
04678	4-Chloroaniline	106-47-8	N.D.	0.5	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.5	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.5	1	1
04678	2-Chloronaphthalene	91-58-7	N.D.	0.4	1	1
04678	2-Chlorophenol	95-57-8	N.D.	0.5	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.5	1	1
04678	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.5	1	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
04678	Chrysene	218-01-9	N.D.	0.1	0.5	1
04678	Dibenz(a,h)anthracene	53-70-3	N.D.	0.1	0.5	1
04678	Dibenzofuran	132-64-9	N.D.	0.5	1	1
04678	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	1	1
04678	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	1	1
04678	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	N.D.	2	5	1
04678	2,4-Dichlorophenol	120-83-2	N.D.	0.5	1	1
04678	Diethylphthalate	84-66-2	N.D.	2	5	1
04678	2,4-Dimethylphenol	105-67-9	N.D.	0.5	1	1
04678	Dimethylphthalate	131-11-3	N.D.	2	5	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5	15	1
04678	2,4-Dinitrophenol	51-28-5	N.D.	10	30	1
04678	2,4-Dinitrotoluene	121-14-2	N.D.	1	5	1
04678	2,6-Dinitrotoluene	606-20-2	N.D.	0.5	1	1
04678	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2	5	1
04678	Fluoranthene	206-44-0	N.D.	0.1	0.5	1
04678	Fluorene	86-73-7	N.D.	0.1	0.5	1
04678	Hexachlorobenzene	118-74-1	N.D.	0.1	0.5	1
04678	Hexachlorobutadiene	87-68-3	N.D.	0.5	1	1
04678	Hexachlorocyclopentadiene	77-47-4	N.D.	5	15	1
04678	Hexachloroethane	67-72-1	N.D.	1	5	1
04678	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.1	0.5	1
04678	Isophorone	78-59-1	N.D.	0.5	1	1
04678	2-Methylnaphthalene	91-57-6	N.D.	0.1	0.5	1
04678	2-Methylphenol	95-48-7	N.D.	0.5	1	1
04678	4-Methylphenol	106-44-5	N.D.	0.5	1	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04678	Naphthalene	91-20-3	N.D.	0.1	0.5	1
04678	2-Nitroaniline	88-74-4	N.D.	0.5	1	1
04678	3-Nitroaniline	99-09-2	N.D.	0.5	1	1
04678	4-Nitroaniline	100-01-6	N.D.	0.5	1	1
04678	Nitrobenzene	98-95-3	N.D.	0.5	1	1
04678	2-Nitrophenol	88-75-5	N.D.	0.5	1	1
04678	4-Nitrophenol	100-02-7	N.D.	10	30	1

*=This limit was used in the evaluation of the final result

Sample Description: Rinsate-4 Grab Water
1-263

LL Sample # WW 7521650
LL Group # 1486638
Account # 06195

Project Name: 1-263

Collected: 07/03/2014 11:05 by BB

PA Dept. of Env. Protection

Rachel Carson Off Bldg 14th Fl

Submitted: 07/03/2014 14:46

PO Box 8471

Reported: 07/11/2014 12:01

Harrisburg PA 17105-8471

P9705 SDG#: PDW97-05RB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	
04678	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.5	1	1
04678	N-Nitrosodiphenylamine	86-30-6	N.D.	0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04678	Di-n-octylphthalate	117-84-0	N.D.	2	5	1
04678	Pentachlorophenol	87-86-5	N.D.	1	5	1
04678	Phenanthrene	85-01-8	N.D.	0.1	0.5	1
04678	Phenol	108-95-2	N.D.	0.5	1	1
04678	Pyrene	129-00-0	N.D.	0.1	0.5	1
04678	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.5	1	1
04678	2,4,5-Trichlorophenol	95-95-4	N.D.	0.5	1	1
04678	2,4,6-Trichlorophenol	88-06-2	N.D.	0.5	1	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL purge	1	I141882AA	07/07/2014 18:28	Jason M Long	1
00527	19.5 1,4-Dioxane 8260B SIM	SW-846 8260B SIM	1	E141882AA	07/07/2014 20:57	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I141882AA	07/07/2014 18:28	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E141882AA	07/07/2014 20:57	Sara E Johnson	1
04678	8.37 TCL Semivolatiles/Waters	SW-846 8270C	1	14186WAF026	07/09/2014 20:26	Linda M Hartenstine	1
00813	BNA Water Extraction	SW-846 3510C	1	14186WAF026	07/07/2014 09:30	Anna E Stager	1

*=This limit was used in the evaluation of the final result

Sample Description: Trip-3 Water
1-263

LL Sample # WW 7521651
LL Group # 1486638
Account # 06195

Project Name: 1-263

Collected: 07/03/2014

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 12:01

PO Box 8471

Harrisburg PA 17105-8471

P9706 SDG#: PDW97-06TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	N.D.	0.5	2.0	1

General Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/15.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*=This limit was used in the evaluation of the final result

Sample Description: Trip-3 Water
1-263

LL Sample # WW 7521651
LL Group # 1486638
Account # 06195

Project Name: 1-263

Collected: 07/03/2014

PA Dept. of Env. Protection

Submitted: 07/03/2014 14:46

Rachel Carson Off Bldg 14th Fl

Reported: 07/11/2014 12:01

PO Box 8471

Harrisburg PA 17105-8471

P9706 SDG#: PDW97-06TB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	7.1 Low Level VOCs 8260B	SW-846 8260B 25mL purge	1	I141882AA	07/07/2014 18:50	Jason M Long	1
00527	19.5 1,4-Dioxane 8260B SIM	SW-846 8260B SIM	1	E141882AA	07/07/2014 21:18	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I141882AA	07/07/2014 18:50	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E141882AA	07/07/2014 21:18	Sara E Johnson	1

*=This limit was used in the evaluation of the final result

Quality Control SummaryClient Name: PA Dept. of Env. Protection
Reported: 07/11/14 at 12:01 PM

Group Number: 1486638

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: E141882AA	Sample number(s): 7521646-7521651								
1,4-Dioxane	N.D.	0.5	2.0	ug/l	103	104	80-123	1	30
Batch number: I141882AA	Sample number(s): 7521646-7521651								
Acetone	N.D.	3.0	5.0	ug/l	93	89	60-139	4	30
Benzene	N.D.	0.1	0.5	ug/l	94	94	80-120	1	30
Bromodichloromethane	N.D.	0.1	0.5	ug/l	103	102	80-120	1	30
Bromoform	N.D.	0.1	0.5	ug/l	107	106	72-138	1	30
Bromomethane	N.D.	0.1	0.5	ug/l	110	110	62-126	0	30
2-Butanone	N.D.	1.0	5.0	ug/l	89	86	63-137	3	30
Carbon Disulfide	N.D.	0.4	0.5	ug/l	95	95	80-120	0	30
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	102	102	80-135	1	30
Chlorobenzene	N.D.	0.1	0.5	ug/l	96	96	80-120	1	30
Chloroethane	N.D.	0.1	0.5	ug/l	103	103	68-120	0	30
Chloroform	N.D.	0.1	0.5	ug/l	98	98	80-120	0	30
Chloromethane	N.D.	0.2	0.5	ug/l	102	103	55-120	1	30
Dibromochloromethane	N.D.	0.1	0.5	ug/l	103	103	80-126	0	30
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	90	90	80-120	0	30
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	93	93	80-127	0	30
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	95	96	80-123	0	30
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	97	98	80-120	1	30
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	98	99	80-120	1	30
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	93	93	80-120	0	30
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	95	97	80-120	1	30
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	104	105	80-120	1	30
Ethylbenzene	N.D.	0.1	0.5	ug/l	95	95	80-120	0	30
2-Hexanone	N.D.	1.0	5.0	ug/l	94	94	62-128	0	30
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	92	92	69-135	0	30
Methylene Chloride	N.D.	0.2	0.5	ug/l	100	100	80-120	0	30
Styrene	N.D.	0.1	0.5	ug/l	102	101	80-120	1	30
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	107	107	80-120	0	30
Tetrachloroethene	N.D.	0.1	0.5	ug/l	92	92	80-120	0	30
Toluene	N.D.	0.1	0.5	ug/l	95	96	80-120	0	30
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	97	98	80-120	1	30
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	103	102	80-120	1	30
Trichloroethene	N.D.	0.1	0.5	ug/l	96	96	80-120	0	30
Vinyl Chloride	N.D.	0.1	0.5	ug/l	107	108	59-124	1	30
Xylene (Total)	N.D.	0.1	0.5	ug/l	96	96	80-120	0	30
Batch number: 14186WAF026	Sample number(s): 7521646-7521650								
Acenaphthene	N.D.	0.1	0.5	ug/l	96	100	80-112	4	30
Acenaphthylene	N.D.	0.1	0.5	ug/l	107	111	84-125	4	30
Anthracene	N.D.	0.1	0.5	ug/l	95	98	82-116	3	30
Benzo(a)anthracene	N.D.	0.1	0.5	ug/l	98	100	81-126	2	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control SummaryClient Name: PA Dept. of Env. Protection
Reported: 07/11/14 at 12:01 PM

Group Number: 1486638

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Benzo(a) pyrene	N.D.	0.1	0.5	ug/l	92	95	82-116	3	30
Benzo(b) fluoranthene	N.D.	0.1	0.5	ug/l	95	99	82-121	4	30
Benzo(g,h,i) perylene	N.D.	0.1	0.5	ug/l	95	101	76-128	6	30
Benzo(k) fluoranthene	N.D.	0.1	0.5	ug/l	93	97	81-122	4	30
4-Bromophenyl-phenylether	N.D.	0.5	1	ug/l	94	98	82-118	3	30
Butylbenzylphthalate	N.D.	2.	5	ug/l	97	101	79-119	4	30
Di-n-butylphthalate	N.D.	2.	5	ug/l	97	99	80-119	2	30
Carbazole	N.D.	0.5	1	ug/l	99	100	84-117	1	30
4-Chloro-3-methylphenol	N.D.	0.5	1	ug/l	100	106	80-123	6	30
4-Chloroaniline	N.D.	0.5	1	ug/l	83	98	55-113	17	30
bis(2-Chloroethoxy)methane	N.D.	0.5	1	ug/l	98	101	77-115	3	30
bis(2-Chloroethyl) ether	N.D.	0.5	1	ug/l	95	98	78-112	3	30
2-Chloronaphthalene	N.D.	0.4	1	ug/l	88	90	71-120	3	30
2-Chlorophenol	N.D.	0.5	1	ug/l	94	97	76-111	3	30
4-Chlorophenyl-phenylether	N.D.	0.5	1	ug/l	95	98	77-114	4	30
2,2'-oxybis(1-Chloropropane)	N.D.	0.5	1	ug/l	98	100	60-118	1	30
Chrysene	N.D.	0.1	0.5	ug/l	100	102	81-120	3	30
Dibenz(a,h) anthracene	N.D.	0.1	0.5	ug/l	96	102	83-124	6	30
Dibenzofuran	N.D.	0.5	1	ug/l	95	97	81-110	2	30
1,2-Dichlorobenzene	N.D.	0.5	1	ug/l	96	98	69-107	2	30
1,3-Dichlorobenzene	N.D.	0.5	1	ug/l	92	94	69-107	2	30
1,4-Dichlorobenzene	N.D.	0.5	1	ug/l	94	96	66-111	2	30
3,3'-Dichlorobenzidine	N.D.	2.	5	ug/l	70	87	47-108	22	30
2,4-Dichlorophenol	N.D.	0.5	1	ug/l	98	103	84-119	5	30
Diethylphthalate	N.D.	2.	5	ug/l	98	100	70-118	3	30
2,4-Dimethylphenol	N.D.	0.5	1	ug/l	91	95	81-114	4	30
Dimethylphthalate	N.D.	2.	5	ug/l	95	100	43-128	5	30
4,6-Dinitro-2-methylphenol	N.D.	5.	15	ug/l	95	97	56-145	2	30
2,4-Dinitrophenol	N.D.	10.	30	ug/l	75	82	32-148	9	30
2,4-Dinitrotoluene	N.D.	1.	5	ug/l	106	109	84-126	3	30
2,6-Dinitrotoluene	N.D.	0.5	1	ug/l	105	108	81-124	2	30
bis(2-Ethylhexyl)phthalate	N.D.	2.	5	ug/l	98	103	78-124	4	30
Fluoranthene	N.D.	0.1	0.5	ug/l	97	98	82-121	1	30
Fluorene	N.D.	0.1	0.5	ug/l	96	99	80-117	3	30
Hexachlorobenzene	N.D.	0.1	0.5	ug/l	92	94	80-119	3	30
Hexachlorobutadiene	N.D.	0.5	1	ug/l	88	93	61-120	7	30
Hexachlorocyclopentadiene	N.D.	5.	15	ug/l	71	69	28-133	3	30
Hexachloroethane	N.D.	1.	5	ug/l	94	96	55-109	2	30
Indeno(1,2,3-cd)pyrene	N.D.	0.1	0.5	ug/l	92	97	80-126	5	30
Isophorone	N.D.	0.5	1	ug/l	105	108	82-119	3	30
2-Methylnaphthalene	N.D.	0.1	0.5	ug/l	88	92	75-106	4	30
2-Methylphenol	N.D.	0.5	1	ug/l	94	97	72-111	4	30
4-Methylphenol	N.D.	0.5	1	ug/l	89	94	63-110	6	30
Naphthalene	N.D.	0.1	0.5	ug/l	93	97	75-108	4	30
2-Nitroaniline	N.D.	0.5	1	ug/l	96	96	84-122	0	30
3-Nitroaniline	N.D.	0.5	1	ug/l	86	92	70-118	6	30
4-Nitroaniline	N.D.	0.5	1	ug/l	82	88	66-110	7	30
Nitrobenzene	N.D.	0.5	1	ug/l	97	99	77-119	2	30
2-Nitrophenol	N.D.	0.5	1	ug/l	97	100	81-128	2	30
4-Nitrophenol	N.D.	10.	30	ug/l	63	61	25-95	2	30
N-Nitroso-di-n-propylamine	N.D.	0.5	1	ug/l	101	101	71-117	0	30
N-Nitrosodiphenylamine	N.D.	0.5	1	ug/l	100	104	80-115	5	30
Di-n-octylphthalate	N.D.	2.	5	ug/l	102	106	78-129	4	30
Pentachlorophenol	N.D.	1.	5	ug/l	97	97	54-124	0	30
Phenanthrene	N.D.	0.1	0.5	ug/l	93	95	81-114	2	30
Phenol	N.D.	0.5	1	ug/l	57	59	31-79	3	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control SummaryClient Name: PA Dept. of Env. Protection
Reported: 07/11/14 at 12:01 PM

Group Number: 1486638

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Pyrene	N.D.	0.1	0.5	ug/l	94	97	81-112	3	30
1,2,4-Trichlorobenzene	N.D.	0.5	1	ug/l	89	94	77-111	5	30
2,4,5-Trichlorophenol	N.D.	0.5	1	ug/l	102	102	81-121	1	30
2,4,6-Trichlorophenol	N.D.	0.5	1	ug/l	95	97	84-119	2	30

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 19.5 1,4-Dioxane 8260B SIM
Batch number: E141882AA
Toluene-d8

7521646	94
7521647	93
7521648	94
7521649	94
7521650	94
7521651	94
Blank	94
LCS	94
LCSD	94

Limits: 80-120

Analysis Name: 7.1 Low Level VOCs 8260B
Batch number: I141882AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7521646	106	107	97	94
7521647	107	106	97	94
7521648	106	107	97	94
7521649	106	106	97	94
7521650	106	106	97	94
7521651	106	106	97	95
Blank	102	105	96	96
LCS	101	102	98	100
LCSD	100	103	98	99

Limits: 77-114 74-113 77-110 78-110

Analysis Name: 8.37 TCL Semivolatiles/Waters
Batch number: 14186WAF026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7521646	66	51	95	93	91	94
7521647	64	50	93	88	88	86
7521648	42	36	69	70	74	61
7521649	64	51	90	91	90	72

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
 (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: PA Dept. of Env. Protection

Group Number: 1486638

Reported: 07/11/14 at 12:01 PM

Surrogate Quality Control

7521650	59	45	92	93	92	103
Blank	62	47	92	90	89	97
LCS	70	53	97	95	92	95
LCSD	71	54	97	97	95	102
Limits:	10-107	10-83	22-150	60-123	67-116	53-139

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Acct. # 6195

For Eurofins Lancaster Laboratories Environmental use only
Group # 1486038 Sample # 752164
Instructions on reverse side correspond with circled numbers.

Group # 1486038 Sample # 7521646-5

COC #347462

[illegible]

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but $\geq$ IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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