



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 6

1445 Ross Avenue, Suite 1200
Dallas, Texas 75202-2733

September 29, 2017

Memorandum

RE: Note to Reader regarding Gulf State Utilities data from the Portable High-Throughput Integrated Laboratory Identification System (PHILIS)

Dear Reader,

The data package attached includes information related to multiple sites. For ease of review, the data pages related to the Gulf State Utilities site have been copied and provided at the front of the data package. The final data package is included in full as Attachment 1.

Ground water samples were taken and are denoted as GSU-GW-001, GSU-GW-002, and GSU-GW-001-FB.

ANALYTICAL RESULTS

EPA
2890 Woodbridge Ave. Bldg. 238
Edison NJ, 08837

Project: Hurricane Harvey Environmental Response
Project Number: [none]
Project Manager: Larry Kaelin

Reported:
09/14/17 16:06
Printed:
09/14/17 16:06

Sample ID: GSU-GW-001
Labratory ID: C17I008-01 (Water)
Laboratory: PHILIS
Instrument ID: GC/MS #5
Method: Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Rpt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Phenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Bis(2-chloroethyl)ether	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2-Chlorophenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2-Methylphenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,2'-Oxybis(1-chloropropane)	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
N-Nitroso-di-n-propylamine	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Hexachloroethane	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Nitrobenzene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Isophorone	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2-Nitrophenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,4-Dimethylphenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Bis(2-chloroethoxy)methane	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,4-Dichlorophenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Naphthalene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
4-Chloroaniline	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Hexachlorobutadiene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
4-Chloro-3-methylphenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2-Methylnaphthalene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Hexachlorocyclopentadiene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,4,6-Trichlorophenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,4,5-Trichlorophenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2-Chloronaphthalene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2-Nitroaniline	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Dimethylphthalate	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,6-Dinitrotoluene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Acenaphthylene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Acenaphthene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
3-Nitroaniline	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,4-Dinitrophenol	ND	100	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
4-Nitrophenol	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Dibenzofuran	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,4-Dinitrotoluene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Diethylphthalate	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
4-Chlorophenyl-phenylether	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Fluorene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	

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Project: Hurricane Harvey Environmental Response
Project Number: [none]
Project Manager: Larry Kaelin

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Sample ID: GSU-GW-001
Laboratory ID: C17I008-01 (Water)
Laboratory: PHILIS
Instrument ID: GC/MS #5
Method: Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Rpt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
4-Nitroaniline	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
4,6-Dinitro-2-methylphenol	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
4-Bromophenyl-phenylether	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Hexachlorobenzene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Pentachlorophenol	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Phenanthrene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Anthracene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Carbazole	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Di-n-butylphthalate	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Fluoranthene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Pyrene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Butylbenzylphthalate	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Benzo(a)anthracene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Bis(2-ethylhexyl)phthalate	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Chrysene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Di-n-octylphthalate	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Benzo(b)fluoranthene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Benzo(k)fluoranthene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Benzo(a)pyrene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Indeno(1,2,3-cd)pyrene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Dibenzo(a,h)anthracene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Benzo(g,h,i)perylene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Surrogate: 2-Fluorophenol		22.2 %	0-120		C7I1402	09/14/17	09/14/17	8270D	
Surrogate: Phenol-d6		15.4 %	1.78-120		C7I1402	09/14/17	09/14/17	8270D	
Surrogate: Nitrobenzene-d5		33.6 %	4.97-120		C7I1402	09/14/17	09/14/17	8270D	
Surrogate: 2-Fluorobiphenyl		36.9 %	6.08-120		C7I1402	09/14/17	09/14/17	8270D	
Surrogate: 2,4,6-Tribromophenol		57.9 %	1.77-120		C7I1402	09/14/17	09/14/17	8270D	
Surrogate: Terphenyl-d14		79.4 %	21.1-160		C7I1402	09/14/17	09/14/17	8270D	

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Sample ID: GSU-GW-001
Laboratory ID: C17I008-01 (Water)
Laboratory: PHILIS
Instrument ID: GC/MS #4
Method: Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Rpt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dichlorodifluoromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Chloromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Vinyl chloride	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Bromomethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Chloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Trichlorofluoromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,1-Dichloroethene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Methylene chloride	ND	5.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Methyl tert-butyl ether	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Acetone	ND	10.0	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
trans-1,2-Dichloroethene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,1-Dichloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
cis-1,2-Dichloroethene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Bromochloromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Chloroform	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Carbon tetrachloride	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,1,1-Trichloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
2-Butanone	ND	10.0	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Benzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2-Dichloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Trichloroethene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2-Dichloropropane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Bromodichloromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
cis-1,3-Dichloropropene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Toluene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Tetrachloroethene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
trans-1,3-Dichloropropene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
4-Methyl-2-pentanone	ND	10.0	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,1,2-Trichloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Dibromochloromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2-Dibromoethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
2-Hexanone	ND	10.0	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Chlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Ethylbenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
m,p-Xylene	ND	6.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
o-Xylene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Xylene (total)	ND	6.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Bromoform	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Styrene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Isopropylbenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,1,2,2-Tetrachloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U

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Project: Hurricane Harvey Environmental Response
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Sample ID: GSU-GW-001
Laboratory ID: C17I008-01 (Water)
Laboratory: PHILIS
Instrument ID: GC/MS #4
Method: Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Rpt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,3-Dichlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,4-Dichlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2-Dichlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2-Dibromo-3-chloropropane	ND	5.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2,4-Trichlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2,3-Trichlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Surrogate: 1,2-Dichloroethane-d4		113 %	80-120		C7I1401	09/14/17	09/14/17	8260C	
Surrogate: Toluene-d8		99.1 %	80-120		C7I1401	09/14/17	09/14/17	8260C	
Surrogate: 4-Bromofluorobenzene		107 %	80-120		C7I1401	09/14/17	09/14/17	8260C	

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Project: Hurricane Harvey Environmental Response
Project Number: [none]
Project Manager: Larry Kaelin

Reported:
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Sample ID: GSU-GW-002
Laboratory ID: C17I008-02 (Water)
Laboratory: PHILIS
Instrument ID: GC/MS #5
Method: Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Rpt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Phenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Bis(2-chloroethyl)ether	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2-Chlorophenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2-Methylphenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,2'-Oxybis(1-chloropropane)	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
N-Nitroso-di-n-propylamine	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Hexachloroethane	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Nitrobenzene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Isophorone	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2-Nitrophenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,4-Dimethylphenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Bis(2-chloroethoxy)methane	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,4-Dichlorophenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Naphthalene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
4-Chloroaniline	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Hexachlorobutadiene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
4-Chloro-3-methylphenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2-Methylnaphthalene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Hexachlorocyclopentadiene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,4,6-Trichlorophenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,4,5-Trichlorophenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2-Chloronaphthalene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2-Nitroaniline	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Dimethylphthalate	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,6-Dinitrotoluene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Acenaphthylene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Acenaphthene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
3-Nitroaniline	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,4-Dinitrophenol	ND	100	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
4-Nitrophenol	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Dibenzofuran	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,4-Dinitrotoluene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Diethylphthalate	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
4-Chlorophenyl-phenylether	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Fluorene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
4-Nitroaniline	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
4,6-Dinitro-2-methylphenol	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
4-Bromophenyl-phenylether	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Hexachlorobenzene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Pentachlorophenol	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Phenanthrene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	

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Sample ID: GSU-GW-002
Laboratory ID: C17I008-02 (Water)
Laboratory: PHILIS
Instrument ID: GC/MS #5
Method: Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Rpt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Carbazole	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Di-n-butylphthalate	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Fluoranthene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Pyrene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Butylbenzylphthalate	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Benzo(a)anthracene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Bis(2-ethylhexyl)phthalate	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Chrysene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Di-n-octylphthalate	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Benzo(b)fluoranthene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Benzo(k)fluoranthene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Benzo(a)pyrene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Indeno(1,2,3-cd)pyrene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Dibenzo(a,h)anthracene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Benzo(g,h,i)perylene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Surrogate: 2-Fluorophenol		24.6 %	0-120		C7I1402	09/14/17	09/14/17	8270D	
Surrogate: Phenol-d6		16.4 %	1.78-120		C7I1402	09/14/17	09/14/17	8270D	
Surrogate: Nitrobenzene-d5		38.2 %	4.97-120		C7I1402	09/14/17	09/14/17	8270D	
Surrogate: 2-Fluorobiphenyl		38.8 %	6.08-120		C7I1402	09/14/17	09/14/17	8270D	
Surrogate: 2,4,6-Tribromophenol		55.0 %	1.77-120		C7I1402	09/14/17	09/14/17	8270D	
Surrogate: Terphenyl-d14		80.9 %	21.1-160		C7I1402	09/14/17	09/14/17	8270D	

Instrument ID: GC/MS #4

Method: Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Rpt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dichlorodifluoromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Chloromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Vinyl chloride	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Bromomethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Chloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Trichlorofluoromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,1-Dichloroethene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Methylene chloride	ND	5.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Methyl tert-butyl ether	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Acetone	ND	10.0	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
trans-1,2-Dichloroethene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,1-Dichloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
cis-1,2-Dichloroethene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Bromochloromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Chloroform	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U

EPA
2890 Woodbridge Ave. Bldg. 238
Edison NJ, 08837

Project: Hurricane Harvey Environmental Response
Project Number: [none]
Project Manager: Larry Kaelin

Reported:
09/14/17 16:06
Printed:
09/14/17 16:06

Sample ID: GSU-GW-002
Laboratory ID: C17I008-02 (Water)
Laboratory: PHILIS
Instrument ID: GC/MS #4
Method: Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Rpt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Carbon tetrachloride	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,1,1-Trichloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
2-Butanone	ND	10.0	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Benzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2-Dichloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Trichloroethene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2-Dichloropropane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Bromodichloromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
cis-1,3-Dichloropropene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Toluene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Tetrachloroethene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
trans-1,3-Dichloropropene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
4-Methyl-2-pentanone	ND	10.0	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,1,2-Trichloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Dibromochloromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2-Dibromoethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
2-Hexanone	ND	10.0	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Chlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Ethylbenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
m,p-Xylene	ND	6.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
o-Xylene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Xylene (total)	ND	6.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Bromoform	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Styrene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Isopropylbenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,1,2,2-Tetrachloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,3-Dichlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,4-Dichlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2-Dichlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2-Dibromo-3-chloropropane	ND	5.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2,4-Trichlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2,3-Trichlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Surrogate: 1,2-Dichloroethane-d4		113 %	80-120		C7I1401	09/14/17	09/14/17	8260C	
Surrogate: Toluene-d8		99.8 %	80-120		C7I1401	09/14/17	09/14/17	8260C	
Surrogate: 4-Bromofluorobenzene		104 %	80-120		C7I1401	09/14/17	09/14/17	8260C	

EPA
2890 Woodbridge Ave. Bldg. 238
Edison NJ, 08837

Project: Hurricane Harvey Environmental Response
Project Number: [none]
Project Manager: Larry Kaelin

Reported:
09/14/17 16:06
Printed:
09/14/17 16:06

Sample ID: GSU-GW-001-FB
Laboratory ID: C17I008-03 (Water)
Laboratory: PHILIS
Instrument ID: GC/MS #4
Method: Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Rpt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dichlorodifluoromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Chloromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Vinyl chloride	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Bromomethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Chloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Trichlorofluoromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,1-Dichloroethene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Methylene chloride	ND	5.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Methyl tert-butyl ether	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Acetone	ND	10.0	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
trans-1,2-Dichloroethene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,1-Dichloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
cis-1,2-Dichloroethene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Bromochloromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Chloroform	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Carbon tetrachloride	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,1,1-Trichloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
2-Butanone	ND	10.0	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Benzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2-Dichloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Trichloroethene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2-Dichloropropane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Bromodichloromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
cis-1,3-Dichloropropene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Toluene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Tetrachloroethene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
trans-1,3-Dichloropropene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
4-Methyl-2-pentanone	ND	10.0	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,1,2-Trichloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Dibromochloromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2-Dibromoethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
2-Hexanone	ND	10.0	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Chlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Ethylbenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
m,p-Xylene	ND	6.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
o-Xylene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Xylene (total)	ND	6.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Bromoform	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Styrene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Isopropylbenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,1,2,2-Tetrachloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U

EPA
2890 Woodbridge Ave. Bldg. 238
Edison NJ, 08837

Project: Hurricane Harvey Environmental Response
Project Number: [none]
Project Manager: Larry Kaelin

Reported:
09/14/17 16:06
Printed:
09/14/17 16:06

Sample ID: GSU-GW-001-FB
Laboratory ID: C17I008-03 (Water)
Laboratory: PHILIS
Instrument ID: GC/MS #4
Method: Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Rpt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,3-Dichlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,4-Dichlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2-Dichlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2-Dibromo-3-chloropropane	ND	5.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2,4-Trichlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2,3-Trichlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Surrogate: 1,2-Dichloroethane-d4		113 %	80-120		C7I1401	09/14/17	09/14/17	8260C	
Surrogate: Toluene-d8		99.0 %	80-120		C7I1401	09/14/17	09/14/17	8260C	
Surrogate: 4-Bromofluorobenzene		106 %	80-120		C7I1401	09/14/17	09/14/17	8260C	

Attachment 1



Portable High-Throughput Integrated Laboratory Identification System (PHILIS)

**EPA Contract No. EP-W-09-034
U.S. Environmental Protection Agency
Office of Emergency Management
Washington, DC 20460**

Data Report

DPC-101 dated 09-16-2017

Site Name: Houston Superfund Environmental Response

Client: US EPA – Region 6

Sample Collection Date: 09/12/2017 & 09/13/2017

Work Order No.: C17I008

Operated by:

**CSS
8833 Cincinnati-Dayton Road, Suite 202
West Chester, OH 45069**



The test results in this report meet all 2003 NELAP and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Program Manager. This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature. Results relate only to the items tested and the sample(s) as received by the laboratory.

ANALYSES INCLUDED IN THIS REPORT

Volatile Organic Compounds by EPA method 8260C.
Semi-Volatile Organic Compounds by EPA method 8270D.

REPORT NARRATIVE

PHILIS Unit: PAL (VIN No.: 1S12E95325E506676)
SPA (VIN No.: 4AG6U33235C037445)

Field Sample Identifiers:

Field ID #	Lab ID #
GSU-GW-001	C17I008-01
GSU-GW-002	C17I008-02
GSU-GW-001-FB	C17I008-03
Trip Blank	C17I008-04
EVR-GW-001	C17I008-05

Data Package Identifier(s) / Data Reporting Group: **C17I008**

Shipping Information:

Carrier Name: Delivered by Client

Date Received: 09/14/2017

GENERAL COMMENTS AND SUMMARY

Sample receipt and analysis proceeded as per protocol. Any discrepancies are noted below.

SAMPLE RECEIPT

Samples received by the laboratory met SOP requirements for sample receipt.

ANALYTICAL EXCEPTIONS

Sample analysis met method and SOP requirements. Any deviations are noted below.

PERFORMANCE FOR METHOD 8260C

Mass Spectrometer Instrument Performance Check

Met method and SOP requirements.

Initial Calibration

Met method and SOP requirements.

Second-source Calibration Verification (SCV)

Met method and SOP requirements.

Continuing Calibration Verification (CCV)

A-01 - CI71402-CCV1: Acetone exceeded method/SOP acceptance criteria (124% Drift – The upper limit is 120% Drift). Acetone was not detected in any of the associated samples. 1,1,2,2-Tetrachloroethane exceeded method/SOP acceptance criteria (127% Drift – the upper limit is 120% Drift). Acetone and 1,1,2,2-Tetrachloroethane were not detected in any of the associated samples.

Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD)

Met method and SOP requirements.

Matrix Spike/ Matrix Spike Duplicate (MS/MSD) or Duplicate

Met method and SOP requirements.

Internal Standards

Met method and SOP requirements.

Method Blanks

Met method and SOP requirements.

Surrogates Standards

Met method and SOP requirements.

Samples

Met method and SOP requirements.

PERFORMANCE FOR METHOD 8270D

Mass Spectrometer Instrument Performance Check

Met method and SOP requirements.

Initial Calibration

Met method and SOP requirements.

Second-source Calibration Verification (SCV)

Met method and SOP requirements.

Continuing Calibration Verification (CCV)

Met method and SOP requirements.

Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD)

Met method and SOP requirements.

Matrix Spike/ Matrix Spike Duplicate (MS/MSD) or Duplicate

Met method and SOP requirements.

Internal Standards

Met method and SOP requirements.

Method Blanks

Met method and SOP requirements.

Surrogates Standards

A-02 – C17I008-05: 2,4,6-Tribromophenol exceeded method/SOP acceptance criteria (133% recovery – The upper limit is 120% recovery).

Samples

Met method and SOP requirements.

ABBREVIATIONS AND DEFINITIONS

Abbreviation	Definition
% Breakdown	Percent Breakdown
% by weight	Percent by weight
% Diff/Drift	Percent difference/ drift (ccv rf relative to ical mean rf/ ccv or scv concentration relative to standard concentration)
% R	Percent Recovery
% Resolution	Percent Resolution
% RSD	Percent Relative Standard Deviation
% Solids	Percent Solids
%D (%Diff/Drift)	Percent Difference
Area %	Area percent (relative to reference area – midpoint standard from curve)
AVECF	Mean Calibration Factor
AVERRF	Mean Relative Response Factor
AVERT	Mean Retention Time
BLK	Blank
BS	Blank Spike
BSD	Blank Spike Duplicate
CAL	Calibration
Calibration Mean RT	Calibration Mean Retention Time (Mean retention time of compound from curve)
CCV	Continuing Calibration Verification
CF	Calibration Factor
COC	Chain of Custody
COD	Coefficient of Determination
D	Dilution
Dev	Deviation
DIFF	Difference
DMC	Deuterated Monitoring Compound
DUP	Sample Duplicate
HCV	High Concentration Calibration Verification
IB	Instrument Blank
ICAL	Initial Calibration
ICB	Instrument Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LEB	Leachate Extraction Blank
Linear r	Linear curve fit
MB	Method Blank
MDL	Method Detection Limit

Abbreviation	Definition
Mean RF	Mean Response Factor (curve)
Mean RT	Mean Retention Time (curve)
Min(#)	Minimum response factor value (if not at or above this value - there must be an explanation in narrative).
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PE	Performance Evaluation
Prep	Preparation
Q	Qualifier (see narrative for explanation)
Q DEL'd	Deleted compound (false positive)
QC	Quality Control
QIon	Quantitation or Target Ion
QUAD	Quadratic
Quad COD	Quadratic curve fit
Rec.	Recovery
REF	Reference
Rel.	Relative
RF	Response Factor
RF RSD	Response Factor Relative Standard Deviation(curve)
RL	Reporting Limit
RPD (%RPD)	Relative Percent Difference
RRF	Relative Response Factor
RRT	Relative Retention Time
RT	Retention Time
RT Diff	Retention Time Difference (relative to calibration mean RT)
RT RSD	Retention Time Relative Standard Deviation (Curve)
SCV	Second source Calibration Verification
SDG	Sample Delivery Group
SEDD	Staged Electronic Data Deliverable
SOP	Standard Operating Procedure
STD	Standard
TAL	Target Analyte List
TIC	Tentatively Identified Compound
TOF	Time-of-Flight
TUN	Tune Check
U	Under the RL
ug/Kg dry	Result on dry weight basis
ug/Kg wet	Result on wet weight basis

DATA PACKAGE ORDER AND TABLE OF CONTENTS

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4. Quality Control	15

Report Approvals:



Julia Capri
PHILIS Program Manager

CLIENT - LAB SAMPLE CROSS REFERENCE

EPA
2890 Woodbridge Ave. Bldg. 238
Edison NJ, 08837

Project: Hurricane Harvey Environmental Response
Project Number: [none]
Project Manager: Larry Kaelin

Reported:
09/14/17 16:05
Printed:
09/14/17 16:05

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GSU-GW-001	C17I008-01	Water	09/13/17 09:50	09/14/17 10:20
GSU-GW-002	C17I008-02	Water	09/13/17 10:40	09/14/17 10:20
GSU-GW-001-FB	C17I008-03	Water	09/13/17 11:00	09/14/17 10:20
Trip Blank	C17I008-04	Water	09/08/17 00:00	09/14/17 10:20
EVR-GW-001	C17I008-05	Water	09/12/17 13:10	09/14/17 10:20

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

ANALYTICAL RESULTS

EPA
2890 Woodbridge Ave. Bldg. 238
Edison NJ, 08837

Project: Hurricane Harvey Environmental Response
Project Number: [none]
Project Manager: Larry Kaelin

Reported:
09/14/17 16:06
Printed:
09/14/17 16:06

Sample ID: GSU-GW-001
Labratory ID: C17I008-01 (Water)
Laboratory: PHILIS
Instrument ID: GC/MS #5
Method: Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Rpt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Phenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Bis(2-chloroethyl)ether	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2-Chlorophenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2-Methylphenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,2'-Oxybis(1-chloropropane)	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
N-Nitroso-di-n-propylamine	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Hexachloroethane	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Nitrobenzene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Isophorone	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2-Nitrophenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,4-Dimethylphenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Bis(2-chloroethoxy)methane	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,4-Dichlorophenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Naphthalene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
4-Chloroaniline	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Hexachlorobutadiene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
4-Chloro-3-methylphenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2-Methylnaphthalene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Hexachlorocyclopentadiene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,4,6-Trichlorophenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,4,5-Trichlorophenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2-Chloronaphthalene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2-Nitroaniline	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Dimethylphthalate	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,6-Dinitrotoluene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Acenaphthylene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Acenaphthene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
3-Nitroaniline	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,4-Dinitrophenol	ND	100	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
4-Nitrophenol	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Dibenzofuran	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,4-Dinitrotoluene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Diethylphthalate	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
4-Chlorophenyl-phenylether	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Fluorene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	

EPA
2890 Woodbridge Ave. Bldg. 238
Edison NJ, 08837

Project: Hurricane Harvey Environmental Response
Project Number: [none]
Project Manager: Larry Kaelin

Reported:
09/14/17 16:06
Printed:
09/14/17 16:06

Sample ID: GSU-GW-001
Laboratory ID: C17I008-01 (Water)
Laboratory: PHILIS
Instrument ID: GC/MS #5

Method: Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Rpt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
4-Nitroaniline	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
4,6-Dinitro-2-methylphenol	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
4-Bromophenyl-phenylether	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Hexachlorobenzene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Pentachlorophenol	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Phenanthrene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Anthracene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Carbazole	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Di-n-butylphthalate	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Fluoranthene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Pyrene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Butylbenzylphthalate	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Benzo(a)anthracene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Bis(2-ethylhexyl)phthalate	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Chrysene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Di-n-octylphthalate	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Benzo(b)fluoranthene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Benzo(k)fluoranthene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Benzo(a)pyrene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Indeno(1,2,3-cd)pyrene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Dibenzo(a,h)anthracene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Benzo(g,h,i)perylene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Surrogate: 2-Fluorophenol		22.2 %	0-120		C7I1402	09/14/17	09/14/17	8270D	
Surrogate: Phenol-d6		15.4 %	1.78-120		C7I1402	09/14/17	09/14/17	8270D	
Surrogate: Nitrobenzene-d5		33.6 %	4.97-120		C7I1402	09/14/17	09/14/17	8270D	
Surrogate: 2-Fluorobiphenyl		36.9 %	6.08-120		C7I1402	09/14/17	09/14/17	8270D	
Surrogate: 2,4,6-Tribromophenol		57.9 %	1.77-120		C7I1402	09/14/17	09/14/17	8270D	
Surrogate: Terphenyl-d14		79.4 %	21.1-160		C7I1402	09/14/17	09/14/17	8270D	

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Edison NJ, 08837

Project: Hurricane Harvey Environmental Response
Project Number: [none]
Project Manager: Larry Kaelin

Reported:
09/14/17 16:06
Printed:
09/14/17 16:06

Sample ID: GSU-GW-001
Laboratory ID: C17I008-01 (Water)
Laboratory: PHILIS
Instrument ID: GC/MS #4
Method: Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Rpt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dichlorodifluoromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Chloromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Vinyl chloride	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Bromomethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Chloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Trichlorofluoromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,1-Dichloroethene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Methylene chloride	ND	5.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Methyl tert-butyl ether	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Acetone	ND	10.0	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
trans-1,2-Dichloroethene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,1-Dichloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
cis-1,2-Dichloroethene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Bromochloromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Chloroform	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Carbon tetrachloride	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,1,1-Trichloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
2-Butanone	ND	10.0	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Benzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2-Dichloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Trichloroethene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2-Dichloropropane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Bromodichloromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
cis-1,3-Dichloropropene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Toluene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Tetrachloroethene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
trans-1,3-Dichloropropene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
4-Methyl-2-pentanone	ND	10.0	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,1,2-Trichloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Dibromochloromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2-Dibromoethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
2-Hexanone	ND	10.0	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Chlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Ethylbenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
m,p-Xylene	ND	6.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
o-Xylene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Xylene (total)	ND	6.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Bromoform	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Styrene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Isopropylbenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,1,2,2-Tetrachloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U

EPA
2890 Woodbridge Ave. Bldg. 238
Edison NJ, 08837

Project: Hurricane Harvey Environmental Response
Project Number: [none]
Project Manager: Larry Kaelin

Reported:
09/14/17 16:06
Printed:
09/14/17 16:06

Sample ID: GSU-GW-001
Laboratory ID: C17I008-01 (Water)
Laboratory: PHILIS
Instrument ID: GC/MS #4
Method: Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Rpt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,3-Dichlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,4-Dichlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2-Dichlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2-Dibromo-3-chloropropane	ND	5.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2,4-Trichlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2,3-Trichlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Surrogate: 1,2-Dichloroethane-d4		113 %	80-120		C7I1401	09/14/17	09/14/17	8260C	
Surrogate: Toluene-d8		99.1 %	80-120		C7I1401	09/14/17	09/14/17	8260C	
Surrogate: 4-Bromofluorobenzene		107 %	80-120		C7I1401	09/14/17	09/14/17	8260C	

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Edison NJ, 08837

Project: Hurricane Harvey Environmental Response
Project Number: [none]
Project Manager: Larry Kaelin

Reported:
09/14/17 16:06
Printed:
09/14/17 16:06

Sample ID: GSU-GW-002
Laboratory ID: C17I008-02 (Water)
Laboratory: PHILIS
Instrument ID: GC/MS #5
Method: Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Rpt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Phenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Bis(2-chloroethyl)ether	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2-Chlorophenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2-Methylphenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,2'-Oxybis(1-chloropropane)	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
N-Nitroso-di-n-propylamine	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Hexachloroethane	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Nitrobenzene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Isophorone	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2-Nitrophenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,4-Dimethylphenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Bis(2-chloroethoxy)methane	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,4-Dichlorophenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Naphthalene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
4-Chloroaniline	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Hexachlorobutadiene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
4-Chloro-3-methylphenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2-Methylnaphthalene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Hexachlorocyclopentadiene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,4,6-Trichlorophenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,4,5-Trichlorophenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2-Chloronaphthalene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2-Nitroaniline	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Dimethylphthalate	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,6-Dinitrotoluene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Acenaphthylene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Acenaphthene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
3-Nitroaniline	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,4-Dinitrophenol	ND	100	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
4-Nitrophenol	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Dibenzofuran	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,4-Dinitrotoluene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Diethylphthalate	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
4-Chlorophenyl-phenylether	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Fluorene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
4-Nitroaniline	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
4,6-Dinitro-2-methylphenol	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
4-Bromophenyl-phenylether	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Hexachlorobenzene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Pentachlorophenol	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Phenanthrene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	

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Project: Hurricane Harvey Environmental Response
Project Number: [none]
Project Manager: Larry Kaelin

Reported:
09/14/17 16:06
Printed:
09/14/17 16:06

Sample ID: GSU-GW-002
Laboratory ID: C17I008-02 (Water)
Laboratory: PHILIS
Instrument ID: GC/MS #5

Method: Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Rpt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Carbazole	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Di-n-butylphthalate	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Fluoranthene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Pyrene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Butylbenzylphthalate	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Benzo(a)anthracene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Bis(2-ethylhexyl)phthalate	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Chrysene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Di-n-octylphthalate	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Benzo(b)fluoranthene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Benzo(k)fluoranthene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Benzo(a)pyrene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Indeno(1,2,3-cd)pyrene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Dibenzo(a,h)anthracene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Benzo(g,h,i)perylene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Surrogate: 2-Fluorophenol		24.6 %	0-120		C7I1402	09/14/17	09/14/17	8270D	
Surrogate: Phenol-d6		16.4 %	1.78-120		C7I1402	09/14/17	09/14/17	8270D	
Surrogate: Nitrobenzene-d5		38.2 %	4.97-120		C7I1402	09/14/17	09/14/17	8270D	
Surrogate: 2-Fluorobiphenyl		38.8 %	6.08-120		C7I1402	09/14/17	09/14/17	8270D	
Surrogate: 2,4,6-Tribromophenol		55.0 %	1.77-120		C7I1402	09/14/17	09/14/17	8270D	
Surrogate: Terphenyl-d14		80.9 %	21.1-160		C7I1402	09/14/17	09/14/17	8270D	

Instrument ID: GC/MS #4

Method: Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Rpt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dichlorodifluoromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Chloromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Vinyl chloride	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Bromomethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Chloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Trichlorofluoromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,1-Dichloroethene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Methylene chloride	ND	5.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Methyl tert-butyl ether	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Acetone	ND	10.0	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
trans-1,2-Dichloroethene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,1-Dichloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
cis-1,2-Dichloroethene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Bromochloromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Chloroform	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U

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Project: Hurricane Harvey Environmental Response
Project Number: [none]
Project Manager: Larry Kaelin

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09/14/17 16:06

Sample ID: GSU-GW-002
Laboratory ID: C17I008-02 (Water)
Laboratory: PHILIS
Instrument ID: GC/MS #4
Method: Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Rpt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Carbon tetrachloride	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,1,1-Trichloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
2-Butanone	ND	10.0	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Benzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2-Dichloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Trichloroethene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2-Dichloropropane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Bromodichloromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
cis-1,3-Dichloropropene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Toluene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Tetrachloroethene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
trans-1,3-Dichloropropene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
4-Methyl-2-pentanone	ND	10.0	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,1,2-Trichloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Dibromochloromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2-Dibromoethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
2-Hexanone	ND	10.0	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Chlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Ethylbenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
m,p-Xylene	ND	6.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
o-Xylene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Xylene (total)	ND	6.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Bromoform	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Styrene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Isopropylbenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,1,2,2-Tetrachloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,3-Dichlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,4-Dichlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2-Dichlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2-Dibromo-3-chloropropane	ND	5.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2,4-Trichlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2,3-Trichlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Surrogate: 1,2-Dichloroethane-d4		113 %	80-120		C7I1401	09/14/17	09/14/17	8260C	
Surrogate: Toluene-d8		99.8 %	80-120		C7I1401	09/14/17	09/14/17	8260C	
Surrogate: 4-Bromofluorobenzene		104 %	80-120		C7I1401	09/14/17	09/14/17	8260C	

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Project: Hurricane Harvey Environmental Response
Project Number: [none]
Project Manager: Larry Kaelin

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Sample ID: GSU-GW-001-FB
Laboratory ID: C17I008-03 (Water)
Laboratory: PHILIS
Instrument ID: GC/MS #4
Method: Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Rpt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dichlorodifluoromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Chloromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Vinyl chloride	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Bromomethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Chloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Trichlorofluoromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,1-Dichloroethene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Methylene chloride	ND	5.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Methyl tert-butyl ether	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Acetone	ND	10.0	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
trans-1,2-Dichloroethene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,1-Dichloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
cis-1,2-Dichloroethene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Bromochloromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Chloroform	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Carbon tetrachloride	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,1,1-Trichloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
2-Butanone	ND	10.0	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Benzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2-Dichloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Trichloroethene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2-Dichloropropane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Bromodichloromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
cis-1,3-Dichloropropene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Toluene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Tetrachloroethene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
trans-1,3-Dichloropropene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
4-Methyl-2-pentanone	ND	10.0	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,1,2-Trichloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Dibromochloromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2-Dibromoethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
2-Hexanone	ND	10.0	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Chlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Ethylbenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
m,p-Xylene	ND	6.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
o-Xylene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Xylene (total)	ND	6.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Bromoform	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Styrene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Isopropylbenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,1,2,2-Tetrachloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U

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Project: Hurricane Harvey Environmental Response
Project Number: [none]
Project Manager: Larry Kaelin

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Sample ID: GSU-GW-001-FB
Laboratory ID: C17I008-03 (Water)
Laboratory: PHILIS
Instrument ID: GC/MS #4
Method: Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Rpt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,3-Dichlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,4-Dichlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2-Dichlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2-Dibromo-3-chloropropane	ND	5.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2,4-Trichlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2,3-Trichlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Surrogate: 1,2-Dichloroethane-d4		113 %	80-120		C7I1401	09/14/17	09/14/17	8260C	
Surrogate: Toluene-d8		99.0 %	80-120		C7I1401	09/14/17	09/14/17	8260C	
Surrogate: 4-Bromofluorobenzene		106 %	80-120		C7I1401	09/14/17	09/14/17	8260C	

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Project: Hurricane Harvey Environmental Response
Project Number: [none]
Project Manager: Larry Kaelin

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Sample ID: Trip Blank
Laboratory ID: C17I008-04 (Water)
Laboratory: PHILIS
Instrument ID: GC/MS #4
Method: Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Rpt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dichlorodifluoromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Chloromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Vinyl chloride	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Bromomethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Chloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Trichlorofluoromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,1-Dichloroethene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Methylene chloride	ND	5.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Methyl tert-butyl ether	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Acetone	ND	10.0	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
trans-1,2-Dichloroethene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,1-Dichloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
cis-1,2-Dichloroethene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Bromochloromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Chloroform	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Carbon tetrachloride	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,1,1-Trichloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
2-Butanone	ND	10.0	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Benzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2-Dichloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Trichloroethene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2-Dichloropropane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Bromodichloromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
cis-1,3-Dichloropropene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Toluene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Tetrachloroethene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
trans-1,3-Dichloropropene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
4-Methyl-2-pentanone	ND	10.0	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,1,2-Trichloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Dibromochloromethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2-Dibromoethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
2-Hexanone	ND	10.0	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Chlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Ethylbenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
m,p-Xylene	ND	6.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
o-Xylene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Xylene (total)	ND	6.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Bromoform	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Styrene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Isopropylbenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,1,2,2-Tetrachloroethane	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U

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Project: Hurricane Harvey Environmental Response
Project Number: [none]
Project Manager: Larry Kaelin

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09/14/17 16:06

Sample ID: Trip Blank
Laboratory ID: C17I008-04 (Water)
Laboratory: PHILIS
Instrument ID: GC/MS #4
Method: Volatile Organic Compounds by EPA Method 8260C

Analyte	Result	Rpt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,3-Dichlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,4-Dichlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2-Dichlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2-Dibromo-3-chloropropane	ND	5.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2,4-Trichlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
1,2,3-Trichlorobenzene	ND	2.00	ug/L	1	C7I1401	09/14/17	09/14/17	8260C	U
Surrogate: 1,2-Dichloroethane-d4		116 %	80-120		C7I1401	09/14/17	09/14/17	8260C	
Surrogate: Toluene-d8		99.7 %	80-120		C7I1401	09/14/17	09/14/17	8260C	
Surrogate: 4-Bromofluorobenzene		104 %	80-120		C7I1401	09/14/17	09/14/17	8260C	

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Project: Hurricane Harvey Environmental Response
Project Number: [none]
Project Manager: Larry Kaelin

Reported:
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09/14/17 16:06

Sample ID: EVR-GW-001
Laboratory ID: C17I008-05 (Water)
Laboratory: PHILIS
Instrument ID: GC/MS #5
Method: Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Rpt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Phenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Bis(2-chloroethyl)ether	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2-Chlorophenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2-Methylphenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,2'-Oxybis(1-chloropropane)	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
N-Nitroso-di-n-propylamine	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Hexachloroethane	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Nitrobenzene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Isophorone	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2-Nitrophenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,4-Dimethylphenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Bis(2-chloroethoxy)methane	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,4-Dichlorophenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Naphthalene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
4-Chloroaniline	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Hexachlorobutadiene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
4-Chloro-3-methylphenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2-Methylnaphthalene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Hexachlorocyclopentadiene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,4,6-Trichlorophenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,4,5-Trichlorophenol	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2-Chloronaphthalene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2-Nitroaniline	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Dimethylphthalate	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,6-Dinitrotoluene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Acenaphthylene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Acenaphthene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
3-Nitroaniline	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,4-Dinitrophenol	ND	100	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
4-Nitrophenol	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Dibenzofuran	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
2,4-Dinitrotoluene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Diethylphthalate	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
4-Chlorophenyl-phenylether	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Fluorene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
4-Nitroaniline	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
4,6-Dinitro-2-methylphenol	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
4-Bromophenyl-phenylether	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Hexachlorobenzene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Pentachlorophenol	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Phenanthrene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	

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Project: Hurricane Harvey Environmental Response
Project Number: [none]
Project Manager: Larry Kaelin

Reported:
09/14/17 16:06
Printed:
09/14/17 16:06

Sample ID: EVR-GW-001
Laboratory ID: C17I008-05 (Water)
Laboratory: PHILIS
Instrument ID: GC/MS #5
Method: Semivolatile Organic Compounds by EPA Method 8270D

Analyte	Result	Rpt Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Carbazole	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Di-n-butylphthalate	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Fluoranthene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Pyrene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Butylbenzylphthalate	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Benzo(a)anthracene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Bis(2-ethylhexyl)phthalate	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Chrysene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Di-n-octylphthalate	ND	50.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Benzo(b)fluoranthene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Benzo(k)fluoranthene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Benzo(a)pyrene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Indeno(1,2,3-cd)pyrene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Dibenzo(a,h)anthracene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Benzo(g,h,i)perylene	ND	25.0	ug/L	1	C7I1402	09/14/17	09/14/17	8270D	
Surrogate: 2-Fluorophenol		69.4 %	0-120		C7I1402	09/14/17	09/14/17	8270D	
Surrogate: Phenol-d6		46.2 %	1.78-120		C7I1402	09/14/17	09/14/17	8270D	
Surrogate: Nitrobenzene-d5		50.5 %	4.97-120		C7I1402	09/14/17	09/14/17	8270D	
Surrogate: 2-Fluorobiphenyl		51.1 %	6.08-120		C7I1402	09/14/17	09/14/17	8270D	
Surrogate: 2,4,6-Tribromophenol		133 %	1.77-120		C7I1402	09/14/17	09/14/17	8270D	A-02
Surrogate: Terphenyl-d14		82.5 %	21.1-160		C7I1402	09/14/17	09/14/17	8270D	

QUALITY CONTROL

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Edison NJ, 08837

Project: Hurricane Harvey Environmental Response
Project Number: [none]
Project Manager: Larry Kaelin

Reported:
09/14/17 16:08
Printed:
09/14/17 16:08

Method: Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
Laboratory: PHILIS
Batch ID: Batch C7I1402 - 3510C
Instrument ID: GC/MS #5
Sample Header: Blank (C7I1402-BLK1)
Sp Source:
Analyzed Date: Prepared: 09/13/17 Analyzed: 09/14/17

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phenol	ND	25.0	ug/L							
Bis(2-chloroethyl)ether	ND	25.0	ug/L							
2-Chlorophenol	ND	25.0	ug/L							
2-Methylphenol	ND	25.0	ug/L							
2,2'-Oxybis(1-chloropropane)	ND	25.0	ug/L							
N-Nitroso-di-n-propylamine	ND	25.0	ug/L							
Hexachloroethane	ND	25.0	ug/L							
Nitrobenzene	ND	25.0	ug/L							
Isophorone	ND	25.0	ug/L							
2-Nitrophenol	ND	25.0	ug/L							
2,4-Dimethylphenol	ND	25.0	ug/L							
Bis(2-chloroethoxy)methane	ND	25.0	ug/L							
2,4-Dichlorophenol	ND	25.0	ug/L							
Naphthalene	ND	25.0	ug/L							
4-Chloroaniline	ND	25.0	ug/L							
Hexachlorobutadiene	ND	25.0	ug/L							
4-Chloro-3-methylphenol	ND	25.0	ug/L							
2-Methylnaphthalene	ND	25.0	ug/L							
Hexachlorocyclopentadiene	ND	25.0	ug/L							
2,4,6-Trichlorophenol	ND	25.0	ug/L							
2,4,5-Trichlorophenol	ND	25.0	ug/L							
2-Chloronaphthalene	ND	25.0	ug/L							
2-Nitroaniline	ND	25.0	ug/L							
Dimethylphthalate	ND	50.0	ug/L							
2,6-Dinitrotoluene	ND	25.0	ug/L							
Acenaphthylene	ND	25.0	ug/L							
Acenaphthene	ND	25.0	ug/L							
3-Nitroaniline	ND	25.0	ug/L							
2,4-Dinitrophenol	ND	100	ug/L							
4-Nitrophenol	ND	50.0	ug/L							
Dibenzofuran	ND	25.0	ug/L							
2,4-Dinitrotoluene	ND	25.0	ug/L							
Diethylphthalate	ND	50.0	ug/L							
4-Chlorophenyl-phenylether	ND	25.0	ug/L							
Fluorene	ND	25.0	ug/L							
4-Nitroaniline	ND	50.0	ug/L							
4,6-Dinitro-2-methylphenol	ND	50.0	ug/L							

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Project: Hurricane Harvey Environmental Response
Project Number: [none]
Project Manager: Larry Kaelin

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09/14/17 16:08
Printed:
09/14/17 16:08

Method: Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
Laboratory: PHILIS
Batch ID: Batch C7I1402 - 3510C
Instrument ID: GC/MS #5
Sample Header: Blank (C7I1402-BLK1)
Sp Source:
Analyzed Date: Prepared: 09/13/17 Analyzed: 09/14/17

Analyte	Reporting		Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	Result	Limit								
4-Bromophenyl-phenylether	ND	25.0	ug/L							
Hexachlorobenzene	ND	25.0	ug/L							
Pentachlorophenol	ND	50.0	ug/L							
Phenanthrene	ND	25.0	ug/L							
Anthracene	ND	25.0	ug/L							
Carbazole	ND	25.0	ug/L							
Di-n-butylphthalate	ND	50.0	ug/L							
Fluoranthene	ND	25.0	ug/L							
Pyrene	ND	25.0	ug/L							
Butylbenzylphthalate	ND	50.0	ug/L							
Benzo(a)anthracene	ND	25.0	ug/L							
Bis(2-ethylhexyl)phthalate	ND	50.0	ug/L							
Chrysene	ND	25.0	ug/L							
Di-n-octylphthalate	ND	50.0	ug/L							
Benzo(b)fluoranthene	ND	25.0	ug/L							
Benzo(k)fluoranthene	ND	25.0	ug/L							
Benzo(a)pyrene	ND	25.0	ug/L							
Indeno(1,2,3-cd)pyrene	ND	25.0	ug/L							
Dibenzo(a,h)anthracene	ND	25.0	ug/L							
Benzo(g,h,i)perylene	ND	25.0	ug/L							
Surrogate: 2-Fluorophenol	120		ug/L	400.00		30.1	0-120			
Surrogate: Phenol-d6	79.2		ug/L	400.00		19.8	1.78-120			
Surrogate: Nitrobenzene-d5	174		ug/L	400.00		43.5	4.97-120			
Surrogate: 2-Fluorobiphenyl	176		ug/L	400.00		43.9	6.08-120			
Surrogate: 2,4,6-Tribromophenol	232		ug/L	400.00		58.0	1.77-120			
Surrogate: Terphenyl-d14	334		ug/L	400.00		83.5	21.1-160			

Instrument ID: GC/MS #5
Sample Header: LCS (C7I1402-BS1)
Sp Source:
Analyzed Date: Prepared: 09/13/17 Analyzed: 09/14/17

Analyte	Reporting		Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	Result	Limit								
Phenol	105	25.0	ug/L	400.00		26.2	9.64-120			
Bis(2-chloroethyl)ether	218	25.0	ug/L	400.00		54.6	34.7-120			
2-Chlorophenol	219	25.0	ug/L	400.00		54.7	30.8-120			
2-Methylphenol	210	25.0	ug/L	400.00		52.5	30.8-120			
2,2'-Oxybis(1-chloropropane)	211	25.0	ug/L	400.00		52.8	32-120			
N-Nitroso-di-n-propylamine	230	25.0	ug/L	400.00		57.5	37.3-120			
Hexachloroethane	145	25.0	ug/L	400.00		36.2	22.9-120			

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Project: Hurricane Harvey Environmental Response
Project Number: [none]
Project Manager: Larry Kaelin

Reported:
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09/14/17 16:08

Method: Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
Laboratory: PHILIS
Batch ID: Batch C7I1402 - 3510C
Instrument ID: GC/MS #5
Sample Header: LCS (C7I1402-BS1)
Sp Source:
Analyzed Date: Prepared: 09/13/17 Analyzed: 09/14/17

Analyte	Reporting		Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	Result	Limit								
Nitrobenzene	236	25.0	ug/L	400.00		58.9	37.4-120			
Isophorone	252	25.0	ug/L	400.00		63.0	43.8-120			
2-Nitrophenol	238	25.0	ug/L	400.00		59.6	35.4-120			
2,4-Dimethylphenol	232	25.0	ug/L	400.00		58.0	25-120			
Bis(2-chloroethoxy)methane	235	25.0	ug/L	400.00		58.7	39.9-120			
2,4-Dichlorophenol	244	25.0	ug/L	400.00		61.1	37.5-120			
Naphthalene	220	25.0	ug/L	400.00		55.0	35.1-120			
4-Chloroaniline	244	25.0	ug/L	400.00		61.0	39.1-120			
Hexachlorobutadiene	161	25.0	ug/L	400.00		40.4	21-120			
4-Chloro-3-methylphenol	272	25.0	ug/L	400.00		68.0	42.5-120			
2-Methylnaphthalene	235	25.0	ug/L	400.00		58.8	37-120			
Hexachlorocyclopentadiene	194	25.0	ug/L	400.00		48.5	21.5-120			
2,4,6-Trichlorophenol	265	25.0	ug/L	400.00		66.4	43-120			
2,4,5-Trichlorophenol	272	25.0	ug/L	400.00		68.1	45-120			
2-Chloronaphthalene	242	25.0	ug/L	400.00		60.4	35.2-120			
2-Nitroaniline	279	25.0	ug/L	400.00		69.8	50.1-120			
Dimethylphthalate	285	50.0	ug/L	400.00		71.4	48.2-125			
2,6-Dinitrotoluene	287	25.0	ug/L	400.00		71.8	55.8-120			
Acenaphthylene	265	25.0	ug/L	400.00		66.2	42.1-120			
Acenaphthene	258	25.0	ug/L	400.00		64.5	39.9-120			
3-Nitroaniline	298	25.0	ug/L	400.00		74.6	54.9-120			
2,4-Dinitrophenol	262	100	ug/L	400.00		65.4	42.2-126			
4-Nitrophenol	146	50.0	ug/L	400.00		36.4	22-120			
Dibenzofuran	263	25.0	ug/L	400.00		65.7	40.7-120			
2,4-Dinitrotoluene	303	25.0	ug/L	400.00		75.6	56.7-122			
Diethylphthalate	299	50.0	ug/L	400.00		74.7	57.7-120			
4-Chlorophenyl-phenylether	276	25.0	ug/L	400.00		69.0	36.6-126			
Fluorene	279	25.0	ug/L	400.00		69.8	42.1-124			
4-Nitroaniline	325	50.0	ug/L	400.00		81.2	54.2-132			
4,6-Dinitro-2-methylphenol	281	50.0	ug/L	400.00		70.3	55.9-133			
4-Bromophenyl-phenylether	304	25.0	ug/L	400.00		76.1	34.8-133			
Hexachlorobenzene	303	25.0	ug/L	400.00		75.6	34.4-132			
Pentachlorophenol	322	50.0	ug/L	400.00		80.4	55.5-133			
Phenanthrene	290	25.0	ug/L	400.00		72.4	43.6-128			
Anthracene	295	25.0	ug/L	400.00		73.7	41.6-129			
Carbazole	306	25.0	ug/L	400.00		76.4	64.5-123			
Di-n-butylphthalate	320	50.0	ug/L	400.00		80.1	47.3-136			
Fluoranthene	314	25.0	ug/L	400.00		78.4	42.9-137			
Pyrene	300	25.0	ug/L	400.00		74.9	43.2-140			
Butylbenzylphthalate	320	50.0	ug/L	400.00		80.1	42.5-146			
Benzo(a)anthracene	308	25.0	ug/L	400.00		77.1	45.3-138			
Bis(2-ethylhexyl)phthalate	319	50.0	ug/L	400.00		79.7	41.8-144			

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Project: Hurricane Harvey Environmental Response
Project Number: [none]
Project Manager: Larry Kaelin

Reported:
09/14/17 16:08
Printed:
09/14/17 16:08

Method: Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
Laboratory: PHILIS
Batch ID: Batch C7I1402 - 3510C
Instrument ID: GC/MS #5
Sample Header: LCS (C7I1402-BS1)
Sp Source:
Analyzed Date: Prepared: 09/13/17 Analyzed: 09/14/17

Analyte	Reporting		Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	Result	Limit								
Chrysene	297	25.0	ug/L	400.00		74.2	41.8-135			
Di-n-octylphthalate	330	50.0	ug/L	400.00		82.4	41.5-149			
Benzo(b)fluoranthene	322	25.0	ug/L	400.00		80.5	43.2-136			
Benzo(k)fluoranthene	327	25.0	ug/L	400.00		81.8	44.9-134			
Benzo(a)pyrene	336	25.0	ug/L	400.00		84.0	40.7-140			
Indeno(1,2,3-cd)pyrene	311	25.0	ug/L	400.00		77.7	42.5-150			
Dibenzo(a,h)anthracene	314	25.0	ug/L	400.00		78.4	30-148			
Benzo(g,h,i)perylene	287	25.0	ug/L	400.00		71.8	37.9-145			
Surrogate: 2-Fluorophenol	153		ug/L	400.00		38.2	8.97-120			
Surrogate: Phenol-d6	107		ug/L	400.00		26.8	4.63-120			
Surrogate: Nitrobenzene-d5	231		ug/L	400.00		57.7	10-120			
Surrogate: 2-Fluorobiphenyl	246		ug/L	400.00		61.4	10-120			
Surrogate: 2,4,6-Tribromophenol	331		ug/L	400.00		82.8	0.853-160			
Surrogate: Terphenyl-d14	317		ug/L	400.00		79.2	42-152			

Instrument ID: GC/MS #5
Sample Header: Matrix Spike (C7I1402-MS1)
Sp Source: Source: C17I006-01
Analyzed Date: Prepared & Analyzed: 09/14/17

Analyte	Reporting		Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	Result	Limit								
Phenol	124	25.0	ug/L	400.00	ND	31.0	9.64-130			
Bis(2-chloroethyl)ether	207	25.0	ug/L	400.00	ND	51.8	34.7-130			
2-Chlorophenol	201	25.0	ug/L	400.00	ND	50.3	30.8-130			
2-Methylphenol	213	25.0	ug/L	400.00	ND	53.2	30.8-130			
2,2'-Oxybis(1-chloropropane)	196	25.0	ug/L	400.00	ND	48.9	32-130			
N-Nitroso-di-n-propylamine	237	25.0	ug/L	400.00	ND	59.2	37.3-130			
Hexachloroethane	162	25.0	ug/L	400.00	ND	40.6	22.9-130			
Nitrobenzene	230	25.0	ug/L	400.00	ND	57.6	37.4-130			
Isophorone	272	25.0	ug/L	400.00	ND	67.9	43.8-130			
2-Nitrophenol	232	25.0	ug/L	400.00	ND	58.1	35.4-130			
2,4-Dimethylphenol	251	25.0	ug/L	400.00	ND	62.6	25-130			
Bis(2-chloroethoxy)methane	242	25.0	ug/L	400.00	ND	60.6	39.9-130			
2,4-Dichlorophenol	256	25.0	ug/L	400.00	10.3	61.4	37.5-130			
Naphthalene	221	25.0	ug/L	400.00	ND	55.2	35.1-130			
4-Chloroaniline	253	25.0	ug/L	400.00	ND	63.2	39.1-130			
Hexachlorobutadiene	183	25.0	ug/L	400.00	ND	45.8	21-130			
4-Chloro-3-methylphenol	291	25.0	ug/L	400.00	ND	72.7	42.5-130			
2-Methylnaphthalene	252	25.0	ug/L	400.00	ND	63.0	37-130			
Hexachlorocyclopentadiene	202	25.0	ug/L	400.00	ND	50.6	21.5-130			

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2890 Woodbridge Ave. Bldg. 238
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Project: Hurricane Harvey Environmental Response
Project Number: [none]
Project Manager: Larry Kaelin

Reported:
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Printed:
09/14/17 16:08

Method: Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
Laboratory: PHILIS
Batch ID: Batch C7I1402 - 3510C
Instrument ID: GC/MS #5
Sample Header: Matrix Spike (C7I1402-MS1)
Sp Source: Source: C17I006-01
Analyzed Date: Prepared & Analyzed: 09/14/17

Analyte	Reporting		Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	Result	Limit								
2,4,6-Trichlorophenol	286	25.0	ug/L	400.00	ND	71.5	43-130			
2,4,5-Trichlorophenol	284	25.0	ug/L	400.00	ND	70.9	45-130			
2-Chloronaphthalene	267	25.0	ug/L	400.00	ND	66.8	35.2-130			
2-Nitroaniline	292	25.0	ug/L	400.00	ND	72.9	50.1-130			
Dimethylphthalate	292	50.0	ug/L	400.00	ND	73.0	48.1-125			
2,6-Dinitrotoluene	295	25.0	ug/L	400.00	ND	73.6	55.8-130			
Acenaphthylene	287	25.0	ug/L	400.00	ND	71.7	42.1-130			
Acenaphthene	280	25.0	ug/L	400.00	ND	69.9	39.9-130			
3-Nitroaniline	295	25.0	ug/L	400.00	ND	73.8	54.9-130			
2,4-Dinitrophenol	275	100	ug/L	400.00	ND	68.6	42.2-130			
4-Nitrophenol	204	50.0	ug/L	400.00	ND	51.1	22-130			
Dibenzofuran	286	25.0	ug/L	400.00	ND	71.5	40.7-130			
2,4-Dinitrotoluene	293	25.0	ug/L	400.00	ND	73.2	56.7-130			
Diethylphthalate	298	50.0	ug/L	400.00	ND	74.5	57.5-130			
4-Chlorophenyl-phenylether	294	25.0	ug/L	400.00	ND	73.6	36.6-130			
Fluorene	295	25.0	ug/L	400.00	ND	73.6	42.1-130			
4-Nitroaniline	314	50.0	ug/L	400.00	ND	78.6	54.2-132			
4,6-Dinitro-2-methylphenol	272	50.0	ug/L	400.00	ND	67.9	55.9-133			
4-Bromophenyl-phenylether	318	25.0	ug/L	400.00	ND	79.6	34.8-133			
Hexachlorobenzene	304	25.0	ug/L	400.00	ND	76.1	34.4-132			
Pentachlorophenol	319	50.0	ug/L	400.00	ND	79.8	55.5-133			
Phenanthrene	295	25.0	ug/L	400.00	ND	73.6	43.6-130			
Anthracene	296	25.0	ug/L	400.00	ND	74.0	41.6-130			
Carbazole	293	25.0	ug/L	400.00	ND	73.2	64.5-130			
Di-n-butylphthalate	309	50.0	ug/L	400.00	25.5	70.9	47.3-136			
Fluoranthene	298	25.0	ug/L	400.00	9.20	72.2	42.9-137			
Pyrene	295	25.0	ug/L	400.00	ND	73.7	43.2-140			
Butylbenzylphthalate	313	50.0	ug/L	400.00	ND	78.3	42.5-146			
Benzo(a)anthracene	303	25.0	ug/L	400.00	11.1	72.9	45.3-138			
Bis(2-ethylhexyl)phthalate	315	50.0	ug/L	400.00	30.5	71.0	41.8-144			
Chrysene	295	25.0	ug/L	400.00	ND	73.6	41.8-135			
Di-n-octylphthalate	316	50.0	ug/L	400.00	ND	79.0	41.5-149			
Benzo(b)fluoranthene	303	25.0	ug/L	400.00	14.5	72.2	43.2-136			
Benzo(k)fluoranthene	304	25.0	ug/L	400.00	15.9	72.2	44.9-134			
Benzo(a)pyrene	316	25.0	ug/L	400.00	10.9	76.4	40.7-140			
Indeno(1,2,3-cd)pyrene	302	25.0	ug/L	400.00	ND	75.4	42.5-150			
Dibenzo(a,h)anthracene	305	25.0	ug/L	400.00	ND	76.3	30-148			
Benzo(g,h,i)perylene	284	25.0	ug/L	400.00	ND	71.1	37.9-145			
Surrogate: 2-Fluorophenol	154		ug/L	400.00		38.4	0-120			
Surrogate: Phenol-d6	126		ug/L	400.00		31.6	1.78-120			
Surrogate: Nitrobenzene-d5	227		ug/L	400.00		56.7	4.97-120			
Surrogate: 2-Fluorobiphenyl	268		ug/L	400.00		67.1	6.08-120			

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Project: Hurricane Harvey Environmental Response
Project Number: [none]
Project Manager: Larry Kaelin

Reported:
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Printed:
09/14/17 16:08

Method: Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
Laboratory: PHILIS
Batch ID: Batch C7I1402 - 3510C
Instrument ID: GC/MS #5
Sample Header: Matrix Spike (C7I1402-MS1)
Sp Source: Source: C17I006-01
Analyzed Date: Prepared & Analyzed: 09/14/17

Analyte	Reporting		Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	Result	Limit								
Surrogate: 2,4,6-Tribromophenol	324		ug/L	400.00		81.0	1.77-120			
Surrogate: Terphenyl-d14	311		ug/L	400.00		77.7	21.1-160			

Instrument ID: GC/MS #5
Sample Header: Matrix Spike Dup (C7I1402-MSD2)
Sp Source: Source: C17I006-01
Analyzed Date: Prepared & Analyzed: 09/14/17

Analyte	Reporting		Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	Result	Limit								
Phenol	115	25.0	ug/L	400.00	ND	28.8	9.64-130	7.53	31.5	
Bis(2-chloroethyl)ether	249	25.0	ug/L	400.00	ND	62.3	34.7-130	18.5	34.1	
2-Chlorophenol	245	25.0	ug/L	400.00	ND	61.4	30.8-130	19.8	32.5	
2-Methylphenol	233	25.0	ug/L	400.00	ND	58.2	30.8-130	8.98	30	
2,2'-Oxybis(1-chloropropane)	239	25.0	ug/L	400.00	ND	59.8	32-130	20.0	30.8	
N-Nitroso-di-n-propylamine	268	25.0	ug/L	400.00	ND	67.0	37.3-130	12.3	30	
Hexachloroethane	178	25.0	ug/L	400.00	ND	44.5	22.9-130	9.34	35.7	
Nitrobenzene	268	25.0	ug/L	400.00	ND	67.0	37.4-130	15.2	30.3	
Isophorone	296	25.0	ug/L	400.00	ND	74.0	43.8-130	8.56	30	
2-Nitrophenol	270	25.0	ug/L	400.00	ND	67.4	35.4-130	14.8	30	
2,4-Dimethylphenol	270	25.0	ug/L	400.00	ND	67.4	25-130	7.30	30	
Bis(2-chloroethoxy)methane	274	25.0	ug/L	400.00	ND	68.4	39.9-130	12.2	30	
2,4-Dichlorophenol	280	25.0	ug/L	400.00	10.3	67.4	37.5-130	9.03	30	
Naphthalene	251	25.0	ug/L	400.00	ND	62.8	35.1-130	12.9	30.4	
4-Chloroaniline	284	25.0	ug/L	400.00	ND	70.9	39.1-130	11.6	30	
Hexachlorobutadiene	196	25.0	ug/L	400.00	ND	49.1	21-130	7.01	42.6	
4-Chloro-3-methylphenol	301	25.0	ug/L	400.00	ND	75.3	42.5-130	3.58	30	
2-Methylnaphthalene	273	25.0	ug/L	400.00	ND	68.2	37-130	7.92	30	
Hexachlorocyclopentadiene	232	25.0	ug/L	400.00	ND	58.0	21.5-130	13.6	46.5	
2,4,6-Trichlorophenol	301	25.0	ug/L	400.00	ND	75.3	43-130	5.14	30	
2,4,5-Trichlorophenol	304	25.0	ug/L	400.00	ND	75.9	45-130	6.84	30	
2-Chloronaphthalene	281	25.0	ug/L	400.00	ND	70.4	35.2-130	5.14	30	
2-Nitroaniline	310	25.0	ug/L	400.00	ND	77.4	50.1-130	6.02	30	
Dimethylphthalate	308	50.0	ug/L	400.00	ND	77.0	48.1-125	5.30	30	
2,6-Dinitrotoluene	312	25.0	ug/L	400.00	ND	77.9	55.8-130	5.61	30	
Acenaphthylene	303	25.0	ug/L	400.00	ND	75.8	42.1-130	5.59	30	
Acenaphthene	295	25.0	ug/L	400.00	ND	73.8	39.9-130	5.43	31.1	
3-Nitroaniline	316	25.0	ug/L	400.00	ND	79.0	54.9-130	6.71	30	
2,4-Dinitrophenol	316	100	ug/L	400.00	ND	78.9	42.2-130	13.9	45.4	
4-Nitrophenol	149	50.0	ug/L	400.00	ND	37.3	22-130	31.2	33.5	
Dibenzofuran	299	25.0	ug/L	400.00	ND	74.7	40.7-130	4.34	30	

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Project: Hurricane Harvey Environmental Response
Project Number: [none]
Project Manager: Larry Kaelin

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09/14/17 16:08

Method: Semivolatile Organic Compounds by EPA Method 8270D - Quality Control
Laboratory: PHILIS
Batch ID: Batch C7I1402 - 3510C
Instrument ID: GC/MS #5
Sample Header: Matrix Spike Dup (C7I1402-MSD2)
Sp Source: Source: C17I006-01
Analyzed Date: Prepared & Analyzed: 09/14/17

Analyte	Reporting		Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	Result	Limit								
2,4-Dinitrotoluene	316	25.0	ug/L	400.00	ND	78.9	56.7-130	7.53	30	
Diethylphthalate	316	50.0	ug/L	400.00	ND	79.1	57.5-130	6.02	30	
4-Chlorophenyl-phenylether	310	25.0	ug/L	400.00	ND	77.6	36.6-130	5.26	47.5	
Fluorene	308	25.0	ug/L	400.00	ND	76.9	42.1-130	4.35	36.8	
4-Nitroaniline	338	50.0	ug/L	400.00	ND	84.4	54.2-132	7.21	38.3	
4,6-Dinitro-2-methylphenol	296	50.0	ug/L	400.00	ND	74.1	55.9-133	8.77	30	
4-Bromophenyl-phenylether	337	25.0	ug/L	400.00	ND	84.3	34.8-133	5.77	46.2	
Hexachlorobenzene	325	25.0	ug/L	400.00	ND	81.2	34.4-132	6.49	52.2	
Pentachlorophenol	337	50.0	ug/L	400.00	ND	84.2	55.5-133	5.37	30	
Phenanthrene	311	25.0	ug/L	400.00	ND	77.6	43.6-130	5.29	41.5	
Anthracene	315	25.0	ug/L	400.00	ND	78.7	41.6-130	6.12	45.7	
Carbazole	318	25.0	ug/L	400.00	ND	79.4	64.5-130	8.23	30	
Di-n-butylphthalate	333	50.0	ug/L	400.00	25.5	77.0	47.3-136	7.50	53.4	
Fluoranthene	322	25.0	ug/L	400.00	9.20	78.2	42.9-137	7.78	60.4	
Pyrene	320	25.0	ug/L	400.00	ND	80.0	43.2-140	8.26	57.7	
Butylbenzylphthalate	341	50.0	ug/L	400.00	ND	85.4	42.5-146	8.62	57.7	
Benzo(a)anthracene	327	25.0	ug/L	400.00	11.1	78.9	45.3-138	7.69	59.9	
Bis(2-ethylhexyl)phthalate	340	50.0	ug/L	400.00	30.5	77.4	41.8-144	7.73	63.7	
Chrysene	317	25.0	ug/L	400.00	ND	79.3	41.8-135	7.39	57.3	
Di-n-octylphthalate	346	50.0	ug/L	400.00	ND	86.5	41.5-149	9.09	60.9	
Benzo(b)fluoranthene	334	25.0	ug/L	400.00	14.5	79.9	43.2-136	9.63	59.2	
Benzo(k)fluoranthene	339	25.0	ug/L	400.00	15.9	80.7	44.9-134	10.6	57.2	
Benzo(a)pyrene	352	25.0	ug/L	400.00	10.9	85.2	40.7-140	10.5	55.8	
Indeno(1,2,3-cd)pyrene	321	25.0	ug/L	400.00	ND	80.2	42.5-150	6.14	74	
Dibenzo(a,h)anthracene	334	25.0	ug/L	400.00	ND	83.5	30-148	9.04	56.2	
Benzo(g,h,i)perylene	304	25.0	ug/L	400.00	ND	75.9	37.9-145	6.50	59.1	
Surrogate: 2-Fluorophenol	162		ug/L	400.00		40.4	0-120			
Surrogate: Phenol-d6	114		ug/L	400.00		28.6	1.78-120			
Surrogate: Nitrobenzene-d5	268		ug/L	400.00		67.0	4.97-120			
Surrogate: 2-Fluorobiphenyl	292		ug/L	400.00		73.0	6.08-120			
Surrogate: 2,4,6-Tribromophenol	343		ug/L	400.00		85.7	1.77-120			
Surrogate: Terphenyl-d14	342		ug/L	400.00		85.5	21.1-160			

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Project: Hurricane Harvey Environmental Response
Project Number: [none]
Project Manager: Larry Kaelin

Reported:
09/14/17 16:08
Printed:
09/14/17 16:08

Method: Volatile Organic Compounds by EPA Method 8260C - Quality Control
Laboratory: PHILIS
Batch ID: Batch C7I1401 - 5030C
Instrument ID: GC/MS #4
Sample Header: Blank (C7I1401-BLK1)
Sp Source:
Analyzed Date: Prepared & Analyzed: 09/14/17

Analyte	Reporting		Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	Result	Limit								
Dichlorodifluoromethane	ND	2.00	ug/L							U
Chloromethane	ND	2.00	ug/L							U
Vinyl chloride	ND	2.00	ug/L							U
Bromomethane	ND	2.00	ug/L							U
Chloroethane	ND	2.00	ug/L							U
Trichlorofluoromethane	ND	2.00	ug/L							U
1,1-Dichloroethene	ND	2.00	ug/L							U
Methylene chloride	ND	5.00	ug/L							U
Methyl tert-butyl ether	ND	2.00	ug/L							U
Acetone	ND	10.0	ug/L							U
trans-1,2-Dichloroethene	ND	2.00	ug/L							U
1,1-Dichloroethane	ND	2.00	ug/L							U
cis-1,2-Dichloroethene	ND	2.00	ug/L							U
Bromochloromethane	ND	2.00	ug/L							U
Chloroform	ND	2.00	ug/L							U
Carbon tetrachloride	ND	2.00	ug/L							U
1,1,1-Trichloroethane	ND	2.00	ug/L							U
2-Butanone	ND	10.0	ug/L							U
Benzene	ND	2.00	ug/L							U
1,2-Dichloroethane	ND	2.00	ug/L							U
Trichloroethene	ND	2.00	ug/L							U
1,2-Dichloropropane	ND	2.00	ug/L							U
Bromodichloromethane	ND	2.00	ug/L							U
cis-1,3-Dichloropropene	ND	2.00	ug/L							U
Toluene	ND	2.00	ug/L							U
Tetrachloroethene	ND	2.00	ug/L							U
trans-1,3-Dichloropropene	ND	2.00	ug/L							U
4-Methyl-2-pentanone	ND	10.0	ug/L							U
1,1,2-Trichloroethane	ND	2.00	ug/L							U
Dibromochloromethane	ND	2.00	ug/L							U
1,2-Dibromoethane	ND	2.00	ug/L							U
2-Hexanone	ND	10.0	ug/L							U
Chlorobenzene	ND	2.00	ug/L							U
Ethylbenzene	ND	2.00	ug/L							U
m,p-Xylene	ND	6.00	ug/L							U
o-Xylene	ND	2.00	ug/L							U
Xylene (total)	ND	6.00	ug/L							U
Bromoform	ND	2.00	ug/L							U
Styrene	ND	2.00	ug/L							U
Isopropylbenzene	ND	2.00	ug/L							U
1,1,2,2-Tetrachloroethane	ND	2.00	ug/L							U
1,3-Dichlorobenzene	ND	2.00	ug/L							U

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Project: Hurricane Harvey Environmental Response
Project Number: [none]
Project Manager: Larry Kaelin

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Method: Volatile Organic Compounds by EPA Method 8260C - Quality Control
Laboratory: PHILIS
Batch ID: Batch C7I1401 - 5030C
Instrument ID: GC/MS #4
Sample Header: Blank (C7I1401-BLK1)
Sp Source:
Analyzed Date: Prepared & Analyzed: 09/14/17

Analyte	Reporting		Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	Result	Limit								
1,4-Dichlorobenzene	ND	2.00	ug/L							U
1,2-Dichlorobenzene	ND	2.00	ug/L							U
1,2-Dibromo-3-chloropropane	ND	5.00	ug/L							U
1,2,4-Trichlorobenzene	ND	2.00	ug/L							U
1,2,3-Trichlorobenzene	ND	2.00	ug/L							U
Surrogate: 1,2-Dichloroethane-d4	55.9		ug/L	50.000		112	80-120			
Surrogate: Toluene-d8	49.2		ug/L	50.000		98.4	80-120			
Surrogate: 4-Bromofluorobenzene	53.4		ug/L	50.000		107	80-120			

Instrument ID: GC/MS #4
Sample Header: LCS (C7I1401-BS1)
Sp Source:
Analyzed Date: Prepared & Analyzed: 09/14/17

Analyte	Reporting		Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	Result	Limit								
Dichlorodifluoromethane	21.8	2.00	ug/L	20.000		109	35.3-145			
Chloromethane	22.4	2.00	ug/L	20.000		112	62.9-129			
Vinyl chloride	20.2	2.00	ug/L	20.000		101	71.7-126			
Bromomethane	20.7	2.00	ug/L	20.000		103	77.7-121			
Chloroethane	20.2	2.00	ug/L	20.000		101	77.2-121			
Trichlorofluoromethane	21.0	2.00	ug/L	20.000		105	78.2-120			
1,1-Dichloroethene	19.5	2.00	ug/L	20.000		97.6	85.7-120			
Methylene chloride	22.4	5.00	ug/L	20.000		112	80-120			
Methyl tert-butyl ether	23.0	2.00	ug/L	20.000		115	78.6-126			
Acetone	134	10.0	ug/L	100.00		134	66.8-137			
trans-1,2-Dichloroethene	20.0	2.00	ug/L	20.000		100	74.6-136			
1,1-Dichloroethane	20.0	2.00	ug/L	20.000		99.8	63.4-148			
cis-1,2-Dichloroethene	19.8	2.00	ug/L	20.000		98.8	80-122			
Bromochloromethane	20.7	2.00	ug/L	20.000		104	80-120			
Chloroform	20.6	2.00	ug/L	20.000		103	80-120			
Carbon tetrachloride	20.4	2.00	ug/L	20.000		102	80-122			
1,1,1-Trichloroethane	20.2	2.00	ug/L	20.000		101	80-121			
2-Butanone	120	10.0	ug/L	100.00		120	75.9-130			
Benzene	19.4	2.00	ug/L	20.000		97.2	80-120			
1,2-Dichloroethane	22.4	2.00	ug/L	20.000		112	80-127			
Trichloroethene	19.5	2.00	ug/L	20.000		97.6	80-122			
1,2-Dichloropropane	21.4	2.00	ug/L	20.000		107	80-123			
Bromodichloromethane	20.6	2.00	ug/L	20.000		103	80-128			
cis-1,3-Dichloropropene	20.8	2.00	ug/L	20.000		104	77-125			
Toluene	19.7	2.00	ug/L	20.000		98.4	80-120			

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Project: Hurricane Harvey Environmental Response
Project Number: [none]
Project Manager: Larry Kaelin

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Method: Volatile Organic Compounds by EPA Method 8260C - Quality Control
Laboratory: PHILIS
Batch ID: Batch C7I1401 - 5030C
Instrument ID: GC/MS #4
Sample Header: LCS (C7I1401-BS1)
Sp Source:
Analyzed Date: Prepared & Analyzed: 09/14/17

Analyte	Reporting		Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	Result	Limit								
Tetrachloroethene	20.2	2.00	ug/L	20.000		101	80-120			
trans-1,3-Dichloropropene	21.0	2.00	ug/L	20.000		105	78.1-123			
4-Methyl-2-pentanone	117	10.0	ug/L	100.00		117	75.4-124			
1,1,2-Trichloroethane	22.0	2.00	ug/L	20.000		110	80-121			
Dibromochloromethane	21.3	2.00	ug/L	20.000		106	75.6-135			
1,2-Dibromoethane	21.1	2.00	ug/L	20.000		106	80-123			
2-Hexanone	120	10.0	ug/L	100.00		120	73.8-128			
Chlorobenzene	20.6	2.00	ug/L	20.000		103	83-120			
Ethylbenzene	19.4	2.00	ug/L	20.000		97.2	80-120			
m,p-Xylene	39.6	6.00	ug/L	40.000		98.9	80-120			
o-Xylene	19.2	2.00	ug/L	20.000		95.8	80-120			
Xylene (total)	58.7	6.00	ug/L	60.000		97.8	80-120			
Bromoform	22.2	2.00	ug/L	20.000		111	67-142			
Styrene	19.6	2.00	ug/L	20.000		98.2	80-120			
Isopropylbenzene	20.1	2.00	ug/L	20.000		100	80-120			
1,1,2,2-Tetrachloroethane	25.2	2.00	ug/L	20.000		126	30.3-164			
1,3-Dichlorobenzene	21.1	2.00	ug/L	20.000		105	80-120			
1,4-Dichlorobenzene	21.2	2.00	ug/L	20.000		106	80-120			
1,2-Dichlorobenzene	21.2	2.00	ug/L	20.000		106	80-120			
1,2-Dibromo-3-chloropropane	21.0	5.00	ug/L	20.000		105	80-120			
1,2,4-Trichlorobenzene	20.8	2.00	ug/L	20.000		104	80-119			
1,2,3-Trichlorobenzene	21.7	2.00	ug/L	20.000		109	80-120			
Surrogate: 1,2-Dichloroethane-d4	55.3		ug/L	50.000		111	80-120			
Surrogate: Toluene-d8	49.9		ug/L	50.000		99.9	80-120			
Surrogate: 4-Bromofluorobenzene	51.7		ug/L	50.000		103	80-120			

Instrument ID: GC/MS #4
Sample Header: Matrix Spike (C7I1401-MS1)
Sp Source: Source: C17I008-01
Analyzed Date: Prepared & Analyzed: 09/14/17

Analyte	Reporting		Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	Result	Limit								
Dichlorodifluoromethane	22.1	2.00	ug/L	20.000	ND	110	35.3-145			
Chloromethane	21.0	2.00	ug/L	20.000	ND	105	62.9-129			
Vinyl chloride	20.0	2.00	ug/L	20.000	ND	99.9	70-130			
Bromomethane	18.7	2.00	ug/L	20.000	ND	93.6	70-130			
Chloroethane	19.2	2.00	ug/L	20.000	ND	95.8	70-130			
Trichlorofluoromethane	21.3	2.00	ug/L	20.000	ND	106	70-130			
1,1-Dichloroethene	19.9	2.00	ug/L	20.000	ND	99.5	70-130			
Methylene chloride	20.7	5.00	ug/L	20.000	1.19	97.6	70-130			

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Project: Hurricane Harvey Environmental Response
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Project Manager: Larry Kaelin

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Method: Volatile Organic Compounds by EPA Method 8260C - Quality Control
Laboratory: PHILIS
Batch ID: Batch C7I1401 - 5030C
Instrument ID: GC/MS #4
Sample Header: Matrix Spike (C7I1401-MS1)
Sp Source: Source: C17I008-01
Analyzed Date: Prepared & Analyzed: 09/14/17

Analyte	Reporting		Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	Result	Limit								
Methyl tert-butyl ether	20.2	2.00	ug/L	20.000	ND	101	70-130			
Acetone	118	10.0	ug/L	100.00	ND	118	66.8-137			
trans-1,2-Dichloroethene	19.3	2.00	ug/L	20.000	ND	96.6	70-136			
1,1-Dichloroethane	19.4	2.00	ug/L	20.000	ND	97.0	63.4-148			
cis-1,2-Dichloroethene	18.1	2.00	ug/L	20.000	ND	90.4	70-130			
Bromochloromethane	18.9	2.00	ug/L	20.000	ND	94.6	70-130			
Chloroform	20.0	2.00	ug/L	20.000	ND	100	70-130			
Carbon tetrachloride	20.4	2.00	ug/L	20.000	ND	102	70-130			
1,1,1-Trichloroethane	20.2	2.00	ug/L	20.000	ND	101	70-130			
2-Butanone	105	10.0	ug/L	100.00	ND	105	70-130			
Benzene	18.5	2.00	ug/L	20.000	ND	92.6	70-130			
1,2-Dichloroethane	20.6	2.00	ug/L	20.000	ND	103	70-130			
Trichloroethene	17.9	2.00	ug/L	20.000	ND	89.5	70-130			
1,2-Dichloropropane	19.6	2.00	ug/L	20.000	ND	98.2	70-130			
Bromodichloromethane	19.8	2.00	ug/L	20.000	ND	99.2	70-130			
cis-1,3-Dichloropropene	18.9	2.00	ug/L	20.000	ND	94.4	70-130			
Toluene	18.5	2.00	ug/L	20.000	ND	92.3	70-130			
Tetrachloroethene	19.0	2.00	ug/L	20.000	ND	95.1	70-130			
trans-1,3-Dichloropropene	19.0	2.00	ug/L	20.000	ND	95.1	70-130			
4-Methyl-2-pentanone	106	10.0	ug/L	100.00	ND	106	70-130			
1,1,2-Trichloroethane	20.2	2.00	ug/L	20.000	ND	101	70-130			
Dibromochloromethane	19.3	2.00	ug/L	20.000	ND	96.5	70-135			
1,2-Dibromoethane	19.9	2.00	ug/L	20.000	ND	99.7	70-130			
2-Hexanone	105	10.0	ug/L	100.00	ND	105	70-130			
Chlorobenzene	18.8	2.00	ug/L	20.000	ND	94.0	70-130			
Ethylbenzene	18.4	2.00	ug/L	20.000	0.780	88.2	70-130			
m,p-Xylene	37.4	6.00	ug/L	40.000	1.82	88.9	70-130			
o-Xylene	18.0	2.00	ug/L	20.000	ND	89.9	70-130			
Xylene (total)	55.4	6.00	ug/L	60.000	1.82	89.2	70-130			
Bromoform	20.0	2.00	ug/L	20.000	ND	99.8	67-142			
Styrene	17.6	2.00	ug/L	20.000	ND	88.2	70-130			
Isopropylbenzene	19.1	2.00	ug/L	20.000	ND	95.4	70-130			
1,1,2,2-Tetrachloroethane	23.0	2.00	ug/L	20.000	ND	115	30.3-164			
1,3-Dichlorobenzene	19.9	2.00	ug/L	20.000	ND	99.7	70-130			
1,4-Dichlorobenzene	19.5	2.00	ug/L	20.000	ND	97.4	70-130			
1,2-Dichlorobenzene	19.3	2.00	ug/L	20.000	ND	96.4	70-130			
1,2-Dibromo-3-chloropropane	21.8	5.00	ug/L	20.000	ND	109	70-130			
1,2,4-Trichlorobenzene	18.2	2.00	ug/L	20.000	ND	91.0	70-130			
1,2,3-Trichlorobenzene	19.2	2.00	ug/L	20.000	ND	95.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	57.2		ug/L	50.000		114	70-130			
Surrogate: Toluene-d8	50.4		ug/L	50.000		101	70-130			
Surrogate: 4-Bromofluorobenzene	52.0		ug/L	50.000		104	70-130			

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Project: Hurricane Harvey Environmental Response
Project Number: [none]
Project Manager: Larry Kaelin

Reported:
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Method: Volatile Organic Compounds by EPA Method 8260C - Quality Control
Laboratory: PHILIS
Batch ID: Batch C7I1401 - 5030C

Instrument ID: GC/MS #4
Sample Header: Matrix Spike Dup (C7I1401-MSD1)
Sp Source: Source: C17I008-01
Analyzed Date: Prepared & Analyzed: 09/14/17

Analyte	Reporting			Spike Level	Source Result	%REC	%REC		RPD Limit	Notes
	Result	Limit	Units				Limits	RPD		
Dichlorodifluoromethane	19.0	2.00	ug/L	20.000	ND	95.2	35.3-145	14.7	30	
Chloromethane	18.1	2.00	ug/L	20.000	ND	90.5	62.9-129	14.7	30	
Vinyl chloride	19.7	2.00	ug/L	20.000	ND	98.7	70-130	1.21	30	
Bromomethane	18.0	2.00	ug/L	20.000	ND	90.0	70-130	3.92	30	
Chloroethane	18.5	2.00	ug/L	20.000	ND	92.6	70-130	3.45	30	
Trichlorofluoromethane	20.1	2.00	ug/L	20.000	ND	100	70-130	5.85	30	
1,1-Dichloroethene	19.2	2.00	ug/L	20.000	ND	95.9	70-130	3.68	30	
Methylene chloride	19.5	5.00	ug/L	20.000	1.19	91.6	70-130	5.87	30	
Methyl tert-butyl ether	20.1	2.00	ug/L	20.000	ND	101	70-130	0.545	30	
Acetone	111	10.0	ug/L	100.00	ND	111	66.8-137	6.52	30	
trans-1,2-Dichloroethene	18.2	2.00	ug/L	20.000	ND	90.9	70-136	6.08	30	
1,1-Dichloroethane	18.8	2.00	ug/L	20.000	ND	94.2	63.4-148	2.93	30	
cis-1,2-Dichloroethene	17.7	2.00	ug/L	20.000	ND	88.4	70-130	2.29	30	
Bromochloromethane	18.1	2.00	ug/L	20.000	ND	90.6	70-130	4.37	30	
Chloroform	19.0	2.00	ug/L	20.000	ND	94.9	70-130	5.33	30	
Carbon tetrachloride	19.1	2.00	ug/L	20.000	ND	95.4	70-130	6.78	30	
1,1,1-Trichloroethane	19.6	2.00	ug/L	20.000	ND	97.8	70-130	3.22	30	
2-Butanone	104	10.0	ug/L	100.00	ND	104	70-130	0.701	30	
Benzene	17.9	2.00	ug/L	20.000	ND	89.6	70-130	3.29	30	
1,2-Dichloroethane	19.6	2.00	ug/L	20.000	ND	98.2	70-130	4.87	30	
Trichloroethene	17.1	2.00	ug/L	20.000	ND	85.5	70-130	4.57	30	
1,2-Dichloropropane	18.4	2.00	ug/L	20.000	ND	92.2	70-130	6.30	30	
Bromodichloromethane	18.8	2.00	ug/L	20.000	ND	94.0	70-130	5.28	30	
cis-1,3-Dichloropropene	18.9	2.00	ug/L	20.000	ND	94.6	70-130	0.264	30	
Toluene	18.4	2.00	ug/L	20.000	ND	92.0	70-130	0.326	30	
Tetrachloroethene	18.7	2.00	ug/L	20.000	ND	93.4	70-130	1.86	30	
trans-1,3-Dichloropropene	19.6	2.00	ug/L	20.000	ND	98.0	70-130	3.05	30	
4-Methyl-2-pentanone	108	10.0	ug/L	100.00	ND	108	70-130	2.07	30	
1,1,2-Trichloroethane	19.6	2.00	ug/L	20.000	ND	97.8	70-130	3.37	30	
Dibromochloromethane	19.1	2.00	ug/L	20.000	ND	95.4	70-135	1.09	30	
1,2-Dibromoethane	19.5	2.00	ug/L	20.000	ND	97.4	70-130	2.28	30	
2-Hexanone	108	10.0	ug/L	100.00	ND	108	70-130	2.89	30	
Chlorobenzene	18.5	2.00	ug/L	20.000	ND	92.6	70-130	1.45	30	
Ethylbenzene	18.0	2.00	ug/L	20.000	0.780	86.3	70-130	2.14	30	
m,p-Xylene	36.6	6.00	ug/L	40.000	1.82	87.0	70-130	2.08	30	
o-Xylene	18.1	2.00	ug/L	20.000	ND	90.4	70-130	0.555	30	
Xylene (total)	54.7	6.00	ug/L	60.000	1.82	88.1	70-130	1.22	30	
Bromoform	20.7	2.00	ug/L	20.000	ND	104	67-142	3.79	30	
Styrene	17.4	2.00	ug/L	20.000	ND	87.2	70-130	1.20	30	
Isopropylbenzene	18.7	2.00	ug/L	20.000	ND	93.4	70-130	2.12	30	
1,1,2,2-Tetrachloroethane	23.2	2.00	ug/L	20.000	ND	116	30.3-164	0.606	30	

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Project: Hurricane Harvey Environmental Response
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Project Manager: Larry Kaelin

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Method: Volatile Organic Compounds by EPA Method 8260C - Quality Control
Laboratory: PHILIS
Batch ID: Batch C7I1401 - 5030C
Instrument ID: GC/MS #4
Sample Header: Matrix Spike Dup (C7I1401-MSD1)
Sp Source: Source: C17I008-01
Analyzed Date: Prepared & Analyzed: 09/14/17

Analyte	Reporting		Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	Result	Limit								
1,3-Dichlorobenzene	19.0	2.00	ug/L	20.000	ND	95.0	70-130	4.83	30	
1,4-Dichlorobenzene	19.0	2.00	ug/L	20.000	ND	95.0	70-130	2.44	30	
1,2-Dichlorobenzene	19.2	2.00	ug/L	20.000	ND	96.0	70-130	0.416	30	
1,2-Dibromo-3-chloropropane	19.8	5.00	ug/L	20.000	ND	99.2	70-130	9.13	30	
1,2,4-Trichlorobenzene	17.8	2.00	ug/L	20.000	ND	89.1	70-130	2.11	30	
1,2,3-Trichlorobenzene	19.0	2.00	ug/L	20.000	ND	95.1	70-130	0.681	30	
Surrogate: 1,2-Dichloroethane-d4	54.8		ug/L	50.000		110	70-130			
Surrogate: Toluene-d8	50.6		ug/L	50.000		101	70-130			
Surrogate: 4-Bromofluorobenzene	52.2		ug/L	50.000		104	70-130			