State Hygienic Laboratory

The University of Iowa

Accession Number	113649
Date Sample Finalized	2013-08-12 14:53
Date Received	2013-08-01 11:09
Sample Source	Non-Drinking Water
Project	WQSWR
Date Collected	2013-07-31 17:50
Collection Site	914 south b street
Collection Town	OSKALOOSA
Sample Description	surface water
Client Reference	
Collector	gibbons bill
Phone	515/725-0335

IDNR-FO 5
401 SW 7TH ST STE I
DES MOINES, IA 50309-4611

Note: Sample exceeded required temperature upon receipt.

Results of Analyses

GCMS Volatiles, EPA 8260

Units	ug/L	Analyzed In	Coralville
Date Analyzed	2013-08-06 14:22	Date Verified	2013-08-07 14:11
Analyst	LJL	Verifier	TGC

Analyte	Result	Quant Limit
Chloromethane	<5	5
Bromomethane	<5	5
Vinyl chloride	<5	5
Chloroethane	<5	5
Methylene chloride	<5	5
Methyl-t-butyl ether (MtBE)	<5	5
Acetone	<5	5
Carbon disulfide	<5	5
1,1-Dichloroethene	<5	5
1,1-Dichloroethane	<5	5
Total 1,2-Dichloroethenes	<5	5
Chloroform	<5	5
1,2-Dichloroethane	<5	5
2-Butanone	<5	5
1,1,1-Trichloroethane	<5	5
Carbon tetrachloride	<5	5
Bromodichloromethane	<5	5
1,2-Dichloropropane	<5	5
cis-1,3-Dichloropropene	<5	5
Trichloroethene	<5	5
Dibromochloromethane	<5	5
1,1,2-Trichloroethane	<5	5
Benzene	<5	5
trans-1,3-Dichloropropene	<5	5
Bromoform	<5	5
4-Methyl-2-pentanone	<5	5
2-Hexanone	<5	5
Tetrachloroethene	<5	5

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Analyte	Result	Quant Limit
1,1,2,2-Tetrachloroethane	<5	5
Toluene	<5	5
Chlorobenzene	<5	5
Ethylbenzene	<5	5
Styrene	<5	5
Total Xylenes	<5	5

Note: This sample was improperly collected; results should be considered estimated.

GCMS Semivolatiles, EPA 8270

Units	ug/L	Analyzed In	Coralville
Date Analyzed	2013-08-06 12:03	Date Verified	2013-08-12 14:53
Analyst	SES	Verifier	TGC
Analysis Prep	Prep by Separatory Funnel, EPA 3510 BNA		

Analyte	Result	Quant Limit
Phenol	<5	5
bis(2-Chloroethyl)ether	<5	5
2-Chlorophenol	<5	5
1,3-Dichlorobenzene	<5	5
1,4-Dichlorobenzene	<5	5
1,2-Dichlorobenzene	<5	5
2-Methylphenol	<5	5
2,2'-oxybis(1-Chloropropane)	<5	5
4-Methylphenol	<5	5
N-Nitroso-di-n-propylamine	<5	5
Hexachloroethane	<5	5
Nitrobenzene	<5	5
Isophorone	<5	5
2-Nitrophenol	<5	5
2,4-Dimethylphenol	<5	5
bis(2-Chloroethoxy) methane	<5	5
2,4-Dichlorophenol	<5	5
1,2,4-Trichlorobenzene	<5	5
Naphthalene	<5	5
4-Chloroaniline	<5	5
Hexachlorobutadiene	<5	5
4-Chloro-3-methylphenol	<5	5
2-Methylnaphthalene	<5	5
Hexachlorocyclopentadiene	<5	5
2,4,6-Trichlorophenol	<5	5
2,4,5-Trichlorophenol	<5	5
2-Chloronaphthalene	<5	5
2-Nitroaniline	<5	5
Dimethyl phthalate	<5	5
Acenaphthylene	<5	5

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Accession Number | 113649

Analyte	Result	Quant Limit
2,6-Dinitrotoluene	<5	5
3-Nitroaniline	<5	5
Acenaphthene	<5	5
2,4-Dinitrophenol	<5	5
4-Nitrophenol	<5	5
Dibenzofuran	<5	5
2,4-Dinitrotoluene	<5	5
Diethyl phthalate	<5	5
Fluorene	<5	5
4-Chlorophenyl phenyl ether	<5	5
4-Nitroaniline	<5	5
4,6-Dinitro-2-methylphenol	<5	5
N-Nitrosodiphenylamine	<5	5
4-Bromophenyl phenyl ether	<5	5
Hexachlorobenzene	<5	5
Pentachlorophenol	<5	5
Phenanthrene	<5	5
Carbazole	<5	5
Anthracene	<5	5
Di-n-butyl phthalate	<5	5
Fluoranthene	<5	5
Pyrene	<5	5
Butyl benzyl phthalate	<5	5
Benzo(a)anthracene	<5	5
3,3'-Dichlorobenzidine	<5	5
Chrysene	<5	5
bis(2-Ethylhexyl)phthalate	<5	5
Di-n-octyl phthalate	<5	5
Benzo(b)fluoranthene	<5	5
Benzo(k)fluoranthene	<5	5
Benzo(a)pyrene	<5	5
Indeno(1,2,3-cd)pyrene	<5	5
Dibenzo(a,h)anthracene	<5	5
Benzo(g,h,i)perylene	<5	5

Note: One or more quality control parameters were observed outside the QC limits in the analysis of this sample.
A number of unidentifiable compounds were observed in the analysis of this sample at estimated concentrations up to 10 ug/L.

Prep by Separatory Funnel, EPA 3510 BNA

Units		Analyzed In	Coralville
Date Analyzed	2013-08-05 08:00	Date Verified	2013-08-06 07:58
Analyst	MES	Verifier	GHJ

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Pharmaceuticals, SOP UHL-H-020 LC/MS/MS

Units	ug/L	Analyzed In	Coralville
Date Analyzed	2013-08-06 14:59	Date Verified	2013-08-10 00:38
Analyst	MNA	Verifier	SJM

Analyte	Result	Quant Limit
Caffeine	0.48	0.25

Note: This data was generated using an SHL developed procedure. Acceptable QC demonstrated.

Description of Units used within this report

ug/L = Micrograms per Liter

The result(s) of this report relate only to the items analyzed. This report shall not be reproduced except in full without the written approval of the laboratory.

Iowa Environmental Laboratory IDs are: Ankeny #397, Iowa City/Coralville #027, Lakeside #393.

If you have any questions, please call Client Services at 800/421-IOWA (4692) or 319/335-4500. Thank you.

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State Hygienic Laboratory

The University of Iowa

Accession Number	113650
Date Sample Finalized	2013-08-09 17:06
Date Received	2013-08-01 11:09
Sample Source	Non-Drinking Water
Project	WQSWR
Date Collected	2013-07-31 17:50
Collection Site	914 south b streeet
Collection Town	OSKALOOSA
Sample Description	surface water
Client Reference	
Collector	gibbons bill
Phone	515/725-0335

BILL GIBBONS
IDNR-FO 5
401 SW 7TH ST STE I
DES MOINES, IA 50309-4611

Note: Sample exceeded required temperature upon receipt.

Results of Analyses

BOD, Carbonaceous 5 Day, SM 5210 B 18th

Units	mg/L	Analyzed In	Ankeny
Date Analyzed	2013-08-02 07:05	Date Verified	2013-08-09 17:06
Analyst	MGB, PB	Verifier	DLS

Analyte	Result	Quant Limit
CBOD, 5 Day	3	2

Total Suspended Solids (Dried at 103 degrees C), USGS I-3765-85

Units	mg/L	Analyzed In	Ankeny
Date Analyzed	2013-08-01 00:00	Date Verified	2013-08-02 16:23
Analyst	RWR	Verifier	DLS

Analyte	Result	Quant Limit
Total Suspended Solids	18	1

Description of Units used within this report

mg/L = Milligrams per Liter

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