



State Hygienic Laboratory

CON 12-15
Doc #27618

The University of Iowa

TAMI QUAM
IDNR CONTAMINATED SITES
LAND QUALITY BUREAU
502 E 9TH STREET
DES MOINES, IA 50319-0034

Accession Number	64196
Date Sample Finalized	2012-10-18 10:40
Date Received	2012-10-16 15:37
Sample Source	Ground Water
Project	WMSF
Date Collected	2012-10-16 10:40
Collection Site	mw-1
Collection Town	TIPTON
Sample Description	ground water
Client Reference	7537/2824
Collector	quam tami s.
Phone	515/281-4420

Note: Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.

Results of Analyses

GCMS Volatiles, EPA 8260

Units	ug/L
Date Analyzed	2012-10-18 07:44
Analyst	LJL

Analyzed In	Iowa City
Date Verified	2012-10-18 10:40
Verifier	TGC

Analyte	Result	Quant Limit
Vinyl chloride	<5	5
1,1-Dichloroethene	<5	5
trans-1,2-Dichloroethene	10.	5
cis-1,2-Dichloroethene	10	5
Trichloroethene	72	5
Tetrachloroethene	60.	5

Note: Please note that this sample had an extreme amount of sediment in each vial. In order to get enough water to analyze, all three vials had to be poured into one.

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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Accession Number	64197
Date Sample Finalized	2012-10-18 10:40
Date Received	2012-10-16 15:37
Sample Source	Ground Water
Project	WMSF
Date Collected	2012-10-16 10:55
Collection Site	mw-3r
Collection Town	TIPTON
Sample Description	ground water
Client Reference	7537/2824
Collector	quam tami s.
Phone	515/281-4420

Note: Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.

Results of Analyses

GCMS Volatiles, EPA 8260

Units	ug/L
Date Analyzed	2012-10-17 12:07
Analyst	LJL

Analyzed In	Iowa City
Date Verified	2012-10-18 10:40
Verifier	TGC

Analyte	Result	Quant Limit
Vinyl chloride	<5	5
1,1-Dichloroethene	<5	5
trans-1,2-Dichloroethene	72	5
cis-1,2-Dichloroethene	81	5
Trichloroethene	14	5
Tetrachloroethene	<5	5

Description of Units used within this report

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502 E 9TH STREET
DES MOINES, IA 50319-0034

Accession Number	64198
Date Sample Finalized	2012-10-18 10:42
Date Received	2012-10-16 15:37
Sample Source	Ground Water
Project	WMSF
Date Collected	2012-10-16 12:15
Collection Site	mw-7e
Collection Town	TIPTON
Sample Description	ground water
Client Reference	7537/2824
Collector	quam tami s.
Phone	515/281-4420

Note: Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.

Results of Analyses

GCMS Volatiles, EPA 8260

Units	ug/L
Date Analyzed	2012-10-17 12:38
Analyst	LJL

Analyzed In	Iowa City
Date Verified	2012-10-18 10:42
Verifier	TGC

Analyte	Result	Quant Limit
Vinyl chloride	<5	5
1,1-Dichloroethene	<5	5
trans-1,2-Dichloroethene	7	5
cis-1,2-Dichloroethene	43	5
Trichloroethene	61	5
Tetrachloroethene	26	5

Description of Units used within this report

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502 E 9TH STREET
DES MOINES, IA 50319-0034

Accession Number	64199
Date Sample Finalized	2012-10-18 10:42
Date Received	2012-10-16 15:37
Sample Source	Ground Water
Project	WMSF
Date Collected	2012-10-16 11:10
Collection Site	mw-9
Collection Town	TIPTON
Sample Description	ground water
Client Reference	7537/2824
Collector	quam tami s.
Phone	515/281-4420

Note: Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.

Results of Analyses

GCMS Volatiles, EPA 8260

Units	ug/L
Date Analyzed	2012-10-17 13:09
Analyst	LJL

Analyzed In	Iowa City
Date Verified	2012-10-18 10:42
Verifier	TGC

Analyte	Result	Quant Limit
Vinyl chloride	<5	5
1,1-Dichloroethene	<5	5
trans-1,2-Dichloroethene	<5	5
cis-1,2-Dichloroethene	<5	5
Trichloroethene	<5	5
Tetrachloroethene	<5	5

Description of Units used within this report

ug/L = Micrograms per Liter

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IDNR CONTAMINATED SITES
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502 E 9TH STREET
DES MOINES, IA 50319-0034

Accession Number	64200
Date Sample Finalized	2012-10-18 10:43
Date Received	2012-10-16 15:37
Sample Source	Ground Water
Project	WMSF
Date Collected	2012-10-16 11:22
Collection Site	mw-10
Collection Town	TIPTON
Sample Description	ground water
Client Reference	7537/2824
Collector	quam tami s.
Phone	515/281-4420

Note: Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.

Results of Analyses

GCMS Volatiles, EPA 8260

Units	ug/L
Date Analyzed	2012-10-17 13:40
Analyst	LJL

Analyzed In	Iowa City
Date Verified	2012-10-18 10:43
Verifier	TGC

Analyte	Result	Quant Limit
Vinyl chloride	<5	5
1,1-Dichloroethene	<5	5
trans-1,2-Dichloroethene	<5	5
cis-1,2-Dichloroethene	<5	5
Trichloroethene	<5	5
Tetrachloroethene	<5	5

Description of Units used within this report

ug/L = Micrograms per Liter

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TAMI QUAM
IDNR CONTAMINATED SITES
LAND QUALITY BUREAU
502 E 9TH STREET
DES MOINES, IA 50319-0034

Accession Number	64201
Date Sample Finalized	2012-10-18 10:45
Date Received	2012-10-16 15:37
Sample Source	Ground Water
Project	WMSF
Date Collected	2012-10-16 11:53
Collection Site	mw-12
Collection Town	TIPTON
Sample Description	ground water
Client Reference	7537/2824
Collector	quam tami s.
Phone	515/281-4420

Note: Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.

Results of Analyses

GCMS Volatiles, EPA 8260

Units	ug/L
Date Analyzed	2012-10-17 14:12
Analyst	LJL

Analyzed In	Iowa City
Date Verified	2012-10-18 10:45
Verifier	TGC

Analyte	Result	Quant Limit
Vinyl chloride	<5	5
1,1-Dichloroethene	<5	5
trans-1,2-Dichloroethene	<5	5
cis-1,2-Dichloroethene	19	5
Trichloroethene	41	5
Tetrachloroethene	39	5

Description of Units used within this report

ug/L = Micrograms per Liter

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502 E 9TH STREET
DES MOINES, IA 50319-0034

Accession Number	64202
Date Sample Finalized	2012-10-18 10:46
Date Received	2012-10-16 15:37
Sample Source	Ground Water
Project	WMSF
Date Collected	2012-10-16 12:26
Collection Site	mw-7w
Collection Town	TIPTON
Sample Description	ground water
Client Reference	7537/2824
Collector	quam tami s.
Phone	515/281-4420

Note: Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.

Results of Analyses

GCMS Volatiles, EPA 8260

Units	ug/L
Date Analyzed	2012-10-17 14:43
Analyst	LJL

Analyzed In	Iowa City
Date Verified	2012-10-18 10:46
Verifier	TGC

Analyte	Result	Quant Limit
Vinyl chloride	<5	5
1,1-Dichloroethene	<5	5
trans-1,2-Dichloroethene	14	5
cis-1,2-Dichloroethene	77	5
Trichloroethene	120	5
Tetrachloroethene	40.	5

Description of Units used within this report

ug/L = Micrograms per Liter

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Sample Type/Matrices: *(Must check one)*

- ▼ Water**

☐ Waste Water

☐ Drinking Water

☐ Surface Water

☒ Ground Water

☐ Other _____

▼ Solids

☐ Soil

☐ Foliage

☐ Sludge

☐ Sediment

DNR Project Codes: *(Must check one)*

- | | |
|-----------------------------------|--|
| <input type="checkbox"/> 17WSTECH | <input type="checkbox"/> 07WQER |
| <input type="checkbox"/> WQUST | <input checked="" type="checkbox"/> WMSF |
| <input type="checkbox"/> 04WQFS | <input type="checkbox"/> WQSWR |
| <input type="checkbox"/> 05WQFK | <input type="checkbox"/> 16WSCOMP |

REPORT TO:

Name of Person: Tami Rice Quam
IDNR & Office: Contaminated Sites/Wallace Bldg
Street Address: 502 E 9th Street
City, State, Zip: Des Moines, Iowa 50319
Phone Number: 515-281-4420
Fax Number: 515-281-8895
E-MAIL: tami.rice@dnr.iowa.gov tami.q

BILL TO: ☒ same as Report to:

Complete the following information only for public water supply

PWS Name: _____

PWS ID: _____ Water Facility ID #: _____ Sampling Point ID: _____

Sample Category: ☐CH ☐TC ☐RA ☐PB Sample Type: ☐RT ☐SP ☐RP
*choose one *choose one

CH—Chemical, TC—Coliform, RA—Radionuclides, PB—Lead RT—Routine, SP—Special, RP—Repeat

Chlorine Residual: Free _____ mg/L Total _____ mg/L

Environmental Sample Collection Form

State Hygienic Laboratory

Lakeside Laboratories
1838 Highway 86
Milford, IA 51351
Phone #: 712-337-3669
Fax #: 712-337-0227

2220 S. Ankeny Blvd
Ankeny, IA 50021
Phone #: 515-725-1600
Fax #: 515-725-1642

U of I Research Park
Iowa City, IA 52242-5002
Phone #: 319-335-4500
Fax #: 319-335-4555

<http://www.uhl.uiowa.edu>

Requested Analyses

Analysis and Method Requested: Volatile Organic Compounds by 8260
(Specifically PCE, TCE, 1,1-DCE, cis-1,2-DCE, and vinyl chloride)

Complete the following information. Please use one form per site.

Collection Site: MW-1, MW-3R, MW-7, MW-9, MW-10, MW-12 Number of bottles submitted
Specific sample location/SHL bottle #(s) per collection site: 3

Collection Location: Tipton, Iowa
(Town, County, GPS, Township, Section, Road Intersection, etc)

Collection Date/Time: 2012/10/16/10:40 Client Reference: 7537/2824
 Year mm dd Military time Additional client information if needed

Collector's Name: Tami S. Quam Collector's Phone #: 515-281-4420
Please print

Collector's Signature:

Chain of Custody/Tracking Signatures

Relinquished by: Tam S. Evans Date/Time 20/2/10/16/ 3:31pm
 Received by: _____ Date/Time _____
 Relinquished by: _____ Date/Time _____
 Received by: NB Date/Time _____
 SHL Custodian

For SHL use only. Please do not write below here.

SAMPLE INTACT: ☐ Yes ☐ No pH: _____ TEMPERATURE: 7.30C

Comments:

Place Label Here

Place Label Here

Place Label Here

IDNR Contaminated Sites Use Only:

 Project: *Tipton Power Plant*

 Cost center: *7537*

 Activity code: *2824*

Comments:

Analysis Requested

Sample Labels - SHL

Collection Site	Date year/mm/dd	Time military	sample matrix see below or identify other	# of Bottles	VOCs by 8260												
MW-1	2012/10/16	10:40	GW	3	✓												
MW-3R	2012/10/16	10:55			✓												
MW-7E	2012/10/16	12:15			✓												
MW-9	2012/10/16	11:10			✓												
MW-10	2012/10/16	11:22			✓												
MW-12	2012/10/16	11:53			✓												
MW-7W	2012/10/16	12:26			✓												

Sample Type/Matrices: ▼ Water

 Waste Water
 Drinking Water
 Surface Water
 Ground Water

▼ Solids

 Soil
 Foliage
 Sludge
 Sediment

Print Form