



# Hygienic Laboratory

*The University of Iowa*

Date of report: 08-17-2010

|||||.....|||||.....|||||.....|||||.....  
TAMI RICE

IDNR CONTAMINATED SITES  
502 EAST NINTH STREET

DES MOINES IA 50319-0034

Sample Number 2010028025  
Date Received 07-29-2010  
Project WMSF  
Date Collected 07-28-2010 11:18  
Collection Site mw-12  
Collection Town Buffalo Center  
Description water  
Reference THERMOGAS BUFFALO CT  
Collector RICE TAMI S.  
Phone (515) 281-4420  
Purchase Order 19745

Comments

*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

### Nitrogen or Phosphorous Pesticides

Analyte	Concentration ug/L	Quantitation Limit ug/L
Atrazine	<0.1	0.1
Cyanazine	<0.1	0.1
Metolachlor	<0.1	0.1
Alachlor	<0.1	0.1
Metribuzin	<0.1	0.1
Butylate	<0.1	0.1
Trifluralin	<0.1	0.1
Acetochlor	<0.1	0.1
Desethyl Atrazine	<0.1	0.1
Desisopropyl Atrazine	<0.1	0.1
Simazine	0.11	0.1
Ametryn	<0.1	0.1
EPTC	<0.1	0.1
Prometon	<0.1	0.1
Propachlor	<0.1	0.1
Propazine	<0.1	0.1
Dimethenamid	<0.1	0.1
Butachlor	<0.1	0.1
Bromacil	1.0	0.1

Date Analyzed: 08-05-2010  
Method: EPA 8141  
Date Prepared: 07-30-2010

Analyzed at: Iowa City

Analyst: PB  
Verified: VR  
Analyst: KB  
Verified: GJ



# Hygienic Laboratory

*The University of Iowa*

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Sample Number 2010028025

## Nitrate + Nitrite as Nitrate N (Water)

Analyte	Concentration mg/L	Quantitation Limit mg/L
Nitrate + Nitrite Nitrogen as N	0.55	0.10

Date Analyzed: 08-06-2010

Analyzed at: Ankeny

Analyst: JE

Method: EPA 353.2

Verified: DS

## Ammonia as N

Analyte	Concentration mg/L	Quantitation Limit mg/L
Ammonia Nitrogen as N	<0.05	0.05

Date Analyzed: 08-04-2010

Analyzed at: Ankeny

Analyst: JE

Method: LAC10-107-06-1J

Verified: DS

## Description of units used within this report

mg/L - Milligrams per Liter

ug/L - Micrograms per Liter

Quant Limit - Lowest concentration reliably measured

The results 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 #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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# Hygienic Laboratory

*The University of Iowa*

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Sample Number 2010028026

## Nitrate + Nitrite as Nitrate N (Water)

Analyte	Concentration mg/L	Quantitation Limit mg/L
Nitrate + Nitrite Nitrogen as N	<0.10	0.10

Date Analyzed: 08-06-2010

Analyzed at: Ankeny

Analyst: JE

Method: EPA 353.2

Verified: DS

## Ammonia as N

Analyte	Concentration mg/L	Quantitation Limit mg/L
Ammonia Nitrogen as N	<0.05	0.05

Date Analyzed: 08-04-2010

Analyzed at: Ankeny

Analyst: JE

Method: LAC10-107-06-1J

Verified: DS

## Description of units used within this report

mg/L - Milligrams per Liter

ug/L - Micrograms per Liter

Quant Limit - Lowest concentration reliably measured

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TAMI RICE

IDNR CONTAMINATED SITES  
502 EAST NINTH STREET

DES MOINES IA 50319-0034

Sample Number 2010028027  
Date Received 07-29-2010  
Project WMSF  
Date Collected 07-28-2010 11:34  
Collection Site mw-1  
Collection Town Buffalo Center  
Description water  
Reference THERMOGAS BUFFALO CT  
Collector RICE TAMI S.  
Phone (515) 281-4420  
Purchase Order 19745

Comments

*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

### Nitrogen or Phosphorous Pesticides

Analyte	Concentration ug/L	Quantitation Limit ug/L
Atrazine	<0.1	0.1
Cyanazine	<0.1	0.1
Metolachlor	<0.1	0.1
Alachlor	<0.1	0.1
Metribuzin	<0.1	0.1
Butylate	<0.1	0.1
Trifluralin	<0.1	0.1
Acetochlor	<0.1	0.1
Desethyl Atrazine	<0.1	0.1
Desisopropyl Atrazine	<0.1	0.1
Simazine	<0.1	0.1
Ametryn	<0.1	0.1
EPTC	<0.1	0.1
Prometon	<0.1	0.1
Propachlor	<0.1	0.1
Propazine	<0.1	0.1
Dimethenamid	<0.1	0.1
Butachlor	<0.1	0.1

Date Analyzed: 08-05-2010

Method: EPA 8141

Date Prepared: 07-30-2010

Analyzed at: Iowa City

Analyst: PB

Verified: VR

Analyst: KB

Verified: GJ



# Hygienic Laboratory

*The University of Iowa*

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Sample Number 2010028027

## Nitrate + Nitrite as Nitrate N (Water)

Analyte	Concentration mg/L	Quantitation Limit mg/L
Nitrate + Nitrite Nitrogen as N	<0.10	0.10

Date Analyzed: 08-03-2010

Analyzed at: Ankeny

Analyst: JE

Method: EPA 353.2

Verified: DS

## Ammonia as N

Analyte	Concentration mg/L	Quantitation Limit mg/L
Ammonia Nitrogen as N	0.31	0.05

Date Analyzed: 08-04-2010

Analyzed at: Ankeny

Analyst: JE

Method: LAC10-107-06-1J

Verified: DS

## Description of units used within this report

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ug/L - Micrograms per Liter

Quant Limit - Lowest concentration reliably measured

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# Hygienic Laboratory

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Sample Number 2010028028

## Nitrate + Nitrite as Nitrate N (Water)

Analyte	Concentration mg/L	Quantitation Limit mg/L
Nitrate + Nitrite Nitrogen as N	1.2	0.10
Date Analyzed: 08-06-2010	Analyzed at: Ankeny	Analyst: JE
Method: EPA 353.2		Verified: DS

## Ammonia as N

Analyte	Concentration mg/L	Quantitation Limit mg/L
Ammonia Nitrogen as N	7.9	0.05
Date Analyzed: 08-12-2010	Analyzed at: Ankeny	Analyst: JE
Method: LAC10-107-06-1J		Verified: DS

## Description of units used within this report

mg/L - Milligrams per Liter

ug/L - Micrograms per Liter

Quant Limit - Lowest concentration reliably measured

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# Hygienic Laboratory

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Date of report: 08-17-2010

|||||.....|||||.....|||||.....|||||.....  
TAMI RICE

IDNR CONTAMINATED SITES  
502 EAST NINTH STREET

DES MOINES IA 50319-0034

<b>Sample Number</b>	2010028029
<b>Date Received</b>	07-29-2010
<b>Project</b>	WMSF
<b>Date Collected</b>	07-28-2010 11:45
<b>Collection Site</b>	mw-7
<b>Collection Town</b>	Buffalo Center
<b>Description</b>	water
<b>Reference</b>	THERMOGAS BUFFALO CT
<b>Collector</b>	RICE TAMI S.
<b>Phone</b>	(515) 281-4420
<b>Purchase Order</b>	19745

**Comments**

*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

### Nitrogen or Phosphorous Pesticides

Analyte	Concentration ug/L	Quantitation Limit ug/L
Atrazine	0.20	0.1
Cyanazine	<0.1	0.1
Metolachlor	0.97	0.1
Alachlor	0.26	0.1
Metribuzin	<0.1	0.1
Butylate	<0.1	0.1
Trifluralin	<0.1	0.1
Acetochlor	<0.1	0.1
Desethyl Atrazine	<0.1	0.1
Desisopropyl Atrazine	0.13	0.1
Simazine	<0.1	0.1
Ametryn	<0.1	0.1
EPTC	<0.1	0.1
Prometon	0.20	0.1
Propachlor	<0.1	0.1
Propazine	<0.1	0.1
Dimethenamid	<0.1	0.1
Butachlor	<0.1	0.1
Bromacil	6.7	1

Date Analyzed: 08-05-2010  
Method: EPA 8141  
Date Prepared: 07-30-2010

Analyzed at: Iowa City

Analyst: PB  
Verified: VR  
Analyst: KB  
Verified: GJ



# Hygienic Laboratory

*The University of Iowa*

Page 2  
Sample Number 2010028029

## Nitrate + Nitrite as Nitrate N (Water)

Analyte	Concentration mg/L	Quantitation Limit mg/L
Nitrate + Nitrite Nitrogen as N	2.2	0.10

Date Analyzed: 08-06-2010

Analyzed at: Ankeny

Analyst: JE

Method: EPA 353.2

Verified: DS

## Ammonia as N

Analyte	Concentration mg/L	Quantitation Limit mg/L
Ammonia Nitrogen as N	0.11	0.05

Date Analyzed: 08-04-2010

Analyzed at: Ankeny

Analyst: JE

Method: LAC10-107-06-1J

Verified: DS

## Description of units used within this report

mg/L - Milligrams per Liter

ug/L - Micrograms per Liter

Quant Limit - Lowest concentration reliably measured

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# Hygienic Laboratory

*The University of Iowa*

Page 2  
Sample Number 2010028030

## Nitrate + Nitrite as Nitrate N (Water)

Analyte	Concentration mg/L	Quantitation Limit mg/L
Nitrate + Nitrite Nitrogen as N	4.5	0.10

Date Analyzed: 08-06-2010  
Method: EPA 353.2

Analyzed at: Ankeny

Analyst: JE  
Verified: DS

## Ammonia as N

Analyte	Concentration mg/L	Quantitation Limit mg/L
Ammonia Nitrogen as N	0.84	0.05

Date Analyzed: 08-04-2010  
Method: LAC10-107-06-1J

Analyzed at: Ankeny

Analyst: JE  
Verified: DS

## Description of units used within this report

mg/L - Milligrams per Liter

ug/L - Micrograms per Liter

Quant Limit - Lowest concentration reliably measured

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# Hygienic Laboratory

*The University of Iowa*

Page 2  
Sample Number 2010028031

## Nitrate + Nitrite as Nitrate N (Water)

Analyte	Concentration mg/L	Quantitation Limit mg/L
Nitrate + Nitrite Nitrogen as N	29	0.10

Date Analyzed: 08-06-2010

Analyzed at: Ankeny

Analyst: JE

Method: EPA 353.2

Verified: DS

## Ammonia as N

Analyte	Concentration mg/L	Quantitation Limit mg/L
Ammonia Nitrogen as N	28	0.05

Date Analyzed: 08-12-2010

Analyzed at: Ankeny

Analyst: JE

Method: LAC10-107-06-1J

Verified: DS

## Description of units used within this report

mg/L - Milligrams per Liter

ug/L - Micrograms per Liter

Quant Limit - Lowest concentration reliably measured

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# Hygienic Laboratory

*The University of Iowa*

Page 2  
Sample Number 2010028032

## Nitrate + Nitrite as Nitrate N (Water)

Analyte	Concentration mg/L	Quantitation Limit mg/L
Nitrate + Nitrite Nitrogen as N	16	0.10

Date Analyzed: 08-06-2010

Analyzed at: Ankeny

Analyst: JE

Method: EPA 353.2

Verified: DS

## Ammonia as N

Analyte	Concentration mg/L	Quantitation Limit mg/L
Ammonia Nitrogen as N	<0.05	0.05

Date Analyzed: 08-04-2010

Analyzed at: Ankeny

Analyst: JE

Method: LAC10-107-06-1J

Verified: DS

## Description of units used within this report

mg/L - Milligrams per Liter

ug/L - Micrograms per Liter

Quant Limit - Lowest concentration reliably measured

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

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# Hygienic Laboratory

*The University of Iowa*

Page 2  
Sample Number 2010028033

## Nitrate + Nitrite as Nitrate N (Water)

Analyte	Concentration mg/L	Quantitation Limit mg/L
Nitrate + Nitrite Nitrogen as N	4.8	0.10

Date Analyzed: 08-06-2010

Analyzed at: Ankeny

Analyst: JE

Method: EPA 353.2

Verified: DS

## Ammonia as N

Analyte	Concentration mg/L	Quantitation Limit mg/L
Ammonia Nitrogen as N	6.2	0.05

Date Analyzed: 08-12-2010

Analyzed at: Ankeny

Analyst: JE

Method: LAC10-107-06-1J

Verified: DS

## Description of units used within this report

mg/L - Milligrams per Liter

ug/L - Micrograms per Liter

Quant Limit - Lowest concentration reliably measured

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# Hygienic Laboratory

*The University of Iowa*

Page 2  
Sample Number 2010028034

## Nitrate + Nitrite as Nitrate N (Water)

Analyte	Concentration mg/L	Quantitation Limit mg/L
Nitrate + Nitrite Nitrogen as N	1.3	0.10

Date Analyzed: 08-06-2010

Analyzed at: Ankeny

Analyst: JE

Method: EPA 353.2

Verified: DS

## Ammonia as N

Analyte	Concentration mg/L	Quantitation Limit mg/L
Ammonia Nitrogen as N	59	0.05

Date Analyzed: 08-13-2010

Analyzed at: Ankeny

Analyst: JE

Method: LAC10-107-06-1J

Verified: DS

## Description of units used within this report

mg/L - Milligrams per Liter

ug/L - Micrograms per Liter

Quant Limit - Lowest concentration reliably measured

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

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# Hygienic Laboratory

The University of Iowa

## CHAIN-OF-CUSTODY

Purchase Order # **WMSF**  
 Project Name and/or Number **19745**  
 Project Name and/or Number **Thermogas-Buffalo Center (3814)**  
 Collector's Phone # **515-281-4420**  
 Print Collector's Name **TAMI S. RICE**  
 Collector's Signature **Tami S. Rice**

Sample ID/Description	Date	Time	Sample Matrix		Analysis Requested	Comments
			W	S		
1. MW-12	7/28/10	11:19 AM	✓		2010028025 AK Common Herbicides	
2. MW-11		11:25 AM	✓		2010028026 AK	
3. MW-1		11:34 AM	✓		2010028027 AK	
4. <del>contaminated</del> MW-8		11:39 AM	✓		2010028028 AK	
5. MW-7		11:45 AM	✓		2010028029 AK	
6. MW-9		11:51 AM	✓		2010028030 AK	
7. MW-5		11:57 AM	✓		2010028031 AK	
8. MW-10		12:04 PM	✓		2010028032 AK	
Relinquished by		Date			Time	
<b>Tami S. Rice</b>		7/29/10			3:50 PM	
Relinquished by		Date			Time	
Sample receiving-custodian		Date			Time	
<b>John Ecker</b>		7-29-10			1553	

Analysis Requested: **Common Herbicides**  
 Comments: **8-#18-DC S-#2-ND**  
 Sample Receipt Comments: **F=2.8 PHx2**  
 Relinquished by: **Tami S. Rice**  
 Relinquished by: **John Ecker**  
 Sample receiving-custodian: **John Ecker**





# Hygienic Laboratory

The University of Iowa

## CHAIN-OF-CUSTODY

WMSF

Purchase Order # 19745

Project Name and/or Number Thermogas-Buffalo Center (3814)

Collector's Phone # 515-281-4420

Print Collector's Name TAMIS RICE

Collector's Signature TAMIS RICE

Comments/UHL Sample Number

Contact Name	Phone	Analysis Requested	State		Zip	Sample Matrix		
			W	S		Other		
TAMI RICE	515-281-4420		IA		50319			
Company	Fax							
IDNL-CONTAMINATED SITES	515-281-8895							
Address								
502 E. 9TH STREET								
City								
DES MOINES								
Sample ID/Description	Date	Time	W	S	Other	Sample Matrix		
1. MW-3	7/28/10	12:11pm	✓					
2. MW-4	7/28/10	12:16pm	✓					
3.								
4.								
5.								
6.								
7.								
8.								
Relinquished by	Date	Time	Comments					
TAMIS RICE	7/29/10	3:50pm						
Relinquished by	Date	Time	Comments					
Sample receiving custodian	Date	Time	Sample Receipt Comments					
Robert Ecker	7-29-10	1450	2-#18-SC 2-#2-ND 1-28 PH-2 Read 1-18 End IC					



