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Of Counsel  
John G. Fletcher  
Walter R. Brown

March 22, 1999

Alesia Whitney-Knight  
Environmental Specialist  
Solid Waste Section  
Wallace State Office Building  
Des Moines, IA 50319

**CON 12-15  
Doc #13908**

1999 MAR 23 PM 1:25  
DEPT. OF  
NATURAL RESOURCES

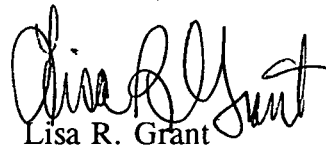
**Re: Wynn Fertilizer Site  
Clarinda, Iowa**

Dear Ms. Whitney-Knight:

Enclosed is a copy of a February 11, 1999 letter from Jeff D. Glock, at Consulting Services Midwest, Inc., concerning the Wynn property in Clarinda. Also enclosed are copies of the Laboratory Analytical Results 1998/1997. It is my understanding that you were previously provided with copies of the reports by Norman Wynn. It is also my understanding that you were only awaiting a copy of this letter report. Please let me know if you are in need of any additional information.

Should you have any questions or concerns, please do not hesitate to contact me.

Sincerely,



Lisa R. Grant

Legal Assistant to Steven C. Schoenebaum

LRG:lrg

Enclosure



Consulting  
Services  
Midwest, Inc.

1999 MAR 23 P 1:25

DEPT. OF  
NATURAL RESOURCES

February 11, 1999

Mr. Norman Wynn  
Ababy Acres Travel Park  
6649 East highway 80  
Space 170  
Yuma, AZ 85365

RECEIVED  
FEB 12 1999  
BROWN, WINICK,  
GRAVES

RE: Wynn Ag Service

Dear Mr. Wynn:

CONSULTING SERVICES MIDWEST, INC. (CSM) is pleased to provide you with the results of the July 1998 groundwater sampling and laboratory analyses from the above referenced site.

Groundwater samples from the site were collected and analyzed, in July 1998 for the following:

- nitrogen and phosphorous pesticides (EPA Method 8141),
- nitrogen in the form of ammonia (EPA Method 350.2),
- nitrogen in the form of nitrates (EPA Method 353.2)

Partial lists of the laboratory results are presented in the enclosed Table – Sampling Results and in detail in the following pages.

Table - Sampling Results indicates groundwater sampling locations, and partial laboratory analytical results, for the sampling periods of July 1998, July 1997 and September 1996.

The most recent sampling event indicated an increase in the concentrations of Cyanazine in MW-2 and MW-6; and an increase of Nitrogen as Nitrates in MW-3. Alachlor and atrazine have decreased in concentrations since prior sampling events.

If significant increases of nitrate and/or pesticide levels are detected in the groundwater, or a change in the groundwater usage in the immediate vicinity of the site, a re-evaluation of management plan and monitoring plan could be made at that time. It is hoped that the final groundwater sampling and analyses in 1999 of the scheduled five-year sampling event for this "Low Priority Site" will allow a clean Title transfer to United Suppliers.

Sincerely yours

CONSULTING SERVICES MIDWEST, INC.

Prepared by,

Jeff D. Glock  
Geologist

Enclosures: Laboratory Analytical Results 1998/1997

cc: Mr. Steven C. Schoenbaum P.L.C.

**TABLE - Sampling Results**

	MW-1			MW-2			MW-3			MW-6			IDNR/EPA MCL
Year	1998	1997	1996	1998	1997	1996	1998	1997	1996	1998	1997	1996	
Alachlor $\Psi$	2.3*	<10	4.0*	6.7*	10.2*	130*	0.5	5*	<0.5	2.	2.2*	4.0*	2.0
Atrazine $\Psi$	0.5	<5	0.71	2.3	4.2*	11*	0.9	43*	2.2	1.5	1.8	2.0	3.0
Cyanazine $\Psi$	4.0	196*	0.87	3.8	1.4	2.4	0.6	36*	0.59	3.	1.3	1.5	10.0
Metolachlor $\Psi$	3.7	57	4.4	10.0	6.3	9.5	4.3	114	5.1	4.	6.7	7.2	100.0
Trifluralin $\Psi$	<0.5	<10	<0.5	<0.5	<0.4	<0.5	<0.5	<4	<0.5	<0.5	<0.4	<0.5	5.0
NO <sub>3</sub> -N $\delta$	6.6	155*	94*	34. *	70*	190*	170. *	145*	96*	20. *	58*	58*	10
NH <sub>3</sub> -N $\delta$	110.	144	5.8	43	72.8	280	56	68.3	60	4.6	7.95	4.8	
Static Water Level	87.25	75.49	87.42	87.72	85.40	88.95	88.16	87.28	89.31	87.18	87.35	87.03	

$\Psi$  = Concentrations in parts per billion (ppb)

$\delta$  = Concentrations in parts per million (ppm)

\*= Concentrations greater than IDNR/EPA Maximum Contaminant Level



08/25/1998

Consulting Services Midwest, Inc.  
Attn: Fred Bauermeister  
P.O. Box 848  
Ankeny, IA 50021

Date Received: 07/23/1998  
Continental File No.: 6745  
Continental Order No.: 50322  
Your P.O./Project No.: 9406120

Dear Mr. Bauermeister:

Enclosed are the laboratory reports for the following samples:

<u>CAS LAB ID #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE SAMPLED</u>
98071445	MW-1	07/21/1998
98071446	MW-2	07/21/1998
98071447	MW-3	07/21/1998
98071448	MW-6	07/21/1998


The footnotes contained in the attached laboratory reports are summarized below for your reference.

<u>CAS LAB ID #</u>	<u>TEST NAME</u>	<u>SAMPLE CONC.</u>
98071445	Ammonia, Total, as N	6.6 Y
98071446	Ammonia, Total, as N	43 Y.
98071447	Ammonia, Total, as N	56 Y.

Y - Recommended sample preservation procedure was not followed or was inadequate for this sample matrix.

Thank you for choosing CAS for this project. If you have any questions, please contact me at 800-535-3076.

CONTINENTAL ANALYTICAL SERVICES, INC.

  
Brian T. O'Donnell  
Project Manager



Client: Consulting Services Midwest, Inc.  
 Attn: Fred Bauermeister  
 P.O. Box 848  
 Ankeny, IA 50021

Date Sample Rptd: 08/25/1998  
 Date Sample Recd: 07/23/1998  
 Continental File No: 6745  
 Continental Order No: 50322  
 Client P.O.: 9406120

Lab Number: 98071445  
 Sample Description: MW-1

Date Sampled: 07/21/1998  
 Time Sampled:

<u>Analysis</u>	<u>Concentration</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Book/Page</u>
Sutan	ND(1.0)	µg/L	07/31/1998	3881/19
Treflan (Trifluralin) (OP)	ND(0.5)	µg/L	07/31/1998	3881/19
Nitrogen Herbicides Screen			07/31/1998	
Alachlor	2.3	µg/L		3881/19
Atrazine	0.5	µg/L		3881/19
Butachlor	ND(0.5)	µg/L		3881/19
Cyanazine (Bladex)	4.	µg/L		3881/19
Metolachlor (Dual)	3.7	µg/L		3881/19
Metribuzin (Sencor)	0.4	µg/L		3881/19
Propachlor (Ramrod)	ND(0.2)	µg/L		3881/19
Propazine (Miloguard)	ND(0.2)	µg/L		3881/19
Simazine	ND(0.2)	µg/L		3881/19
Ammonia, Total, as N	6.6 Y	mg/L	08/05/1998	3836/78
Nitrate/Nitrite, as N	110.	mg/L	07/30/1998	3035/592

<u>Analysis</u>	<u>Date Prepared</u>	<u>QC Batch</u>	<u>Analyst</u>	<u>Analytical Method</u>
Sutan	07/27/1998	980727-1	SPA	8141A (M)
Treflan (Trifluralin) (OP)	07/27/1998	980727-1	SPA	8141A (M)
Nitrogen Herbicides Screen	07/27/1998	980727-1	SPA	8141A (M)
Ammonia, Total, as N	NA	980805-1	KLM	350.2, 350.3
Nitrate/Nitrite, as N	NA	980730-1	GT	353.2/SM4500NO3-F

Y - Recommended sample preservation procedure was not followed or was inadequate for this sample matrix.

Conclusion of Lab Number: 98071445

Lab Number: 98071446  
 Sample Description: MW-2

Date Sampled: 07/21/1998  
 Time Sampled:

<u>Analysis</u>	<u>Concentration</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Book/Page</u>
Sutan	ND(1.0)	µg/L	08/15/1998	3866/93
Treflan (Trifluralin) (OP)	ND(0.5)	µg/L	08/15/1998	3866/93
Nitrogen Herbicides Screen			08/15/1998	
Alachlor	6.7	µg/L		3866/93

-Continued-



## CONTINENTAL ANALYTICAL SERVICES, INC.

## LABORATORY REPORT

Page: 2

Client: Consulting Services Midwest, Inc.  
 Lab Number: 98071446  
 Sample Description: MW-2

<u>Analysis</u>	<u>Concentration</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Book/Page</u>
Atrazine	2.3	µg/L		3866/93
Butachlor	ND(0.5)	µg/L		3866/93
Cyanazine(Bladex)	3.8	µg/L		3866/93
Metolachlor(Dual)	10.0	µg/L		3866/93
Metribuzin(Sencor)	2.2	µg/L		3866/93
Propachlor(Ramrod)	ND(0.2)	µg/L		3866/93
Propazine(Miloguard)	ND(0.2)	µg/L		3866/93
Simazine	0.6	µg/L		3866/93
Ammonia, Total, as N	43 Y.	mg/L	08/05/1998	3836/78
Nitrate/Nitrite, as N	34.	mg/L	07/30/1998	3035/591

<u>Analysis</u>	<u>Date Prepared</u>	<u>QC Batch</u>	<u>Analyst</u>	<u>Analytical Method</u>
Sutan	08/07/1998	980807-6	SPA	8141A(M)
Treflan (Trifluralin) (OP)	08/07/1998	980807-6	SPA	8141A (M)
Nitrogen Herbicides Screen	08/07/1998	980807-6	SPA	8141A (M)
Ammonia, Total, as N	NA	980805-1	KLM	350.2, 350.3
Nitrate/Nitrite, as N	NA	980730-1	GT	353.2/SM4500NO3-F

Y - Recommended sample preservation procedure was not followed or was inadequate for this sample matrix.

Conclusion of Lab Number: 98071446

Lab Number: 98071447  
 Sample Description: MW-3

Date Sampled: 07/21/1998  
 Time Sampled:

<u>Analysis</u>	<u>Concentration</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Book/Page</u>
Sutan	ND(1.0)	µg/L	07/31/1998	3881/19
Treflan (Trifluralin) (OP)	ND(0.5)	µg/L	07/31/1998	3881/19
Nitrogen Herbicides Screen			07/31/1998	
Alachlor	ND(0.5)	µg/L		3881/19
Atrazine	0.9	µg/L		3881/19
Butachlor	ND(0.5)	µg/L		3881/19
Cyanazine(Bladex)	0.6	µg/L		3881/19
Metolachlor(Dual)	4.3	µg/L		3881/19
Metribuzin(Sencor)	ND(0.2)	µg/L		3881/19
Propachlor(Ramrod)	ND(0.2)	µg/L		3881/19
Propazine(Miloguard)	ND(0.2)	µg/L		3881/19
Simazine	ND(0.2)	µg/L		3881/19
Ammonia, Total, as N	56 Y.	mg/L	08/05/1998	3836/78

-Continued-

## CONTINENTAL ANALYTICAL SERVICES, INC.

## LABORATORY REPORT

Page: 3

Client: Consulting Services Midwest, Inc.  
 Lab Number: 98071447  
 Sample Description: MW-3

<u>Analysis</u>	<u>Concentration</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Book/Page</u>
Nitrate/Nitrite, as N	170.	mg/L	07/30/1998	3035/592

<u>Analysis</u>	<u>Date Prepared</u>	<u>QC Batch</u>	<u>Analyst</u>	<u>Analytical Method</u>
Sutan	07/27/1998	980727-1	SPA	8141A (M)
Treflan (Trifluralin) (OP)	07/27/1998	980727-1	SPA	8141A (M)
Nitrogen Herbicides Screen	07/27/1998	980727-1	SPA	8141A (M)
Ammonia, Total, as N	NA	980805-1	KLM	350.2, 350.3
Nitrate/Nitrite, as N	NA	980730-1	GT	353.2/SM4500NO3-F

Y - Recommended sample preservation procedure was not followed or was inadequate for this sample matrix.

Conclusion of Lab Number: 98071447

Lab Number: 98071448  
 Sample Description: MW-6

Date Sampled: 07/21/1998  
 Time Sampled:

<u>Analysis</u>	<u>Concentration</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Book/Page</u>
Sutan	ND (1.0)	µg/L	07/31/1998	3881/19
Treflan (Trifluralin) (OP)	ND (0.5)	µg/L	07/31/1998	3881/19
Nitrogen Herbicides Screen			07/31/1998	
Alachlor	2.	µg/L		3881/19
Atrazine	1.5	µg/L		3881/19
Butachlor	ND (0.5)	µg/L		3881/19
Cyanazine (Bladex)	3.	µg/L		3881/19
Metolachlor (Dual)	4.	µg/L		3881/19
Metribuzin (Sencor)	0.2	µg/L		3881/19
Propachlor (Ramrod)	ND (0.2)	µg/L		3881/19
Propazine (Miloguard)	ND (0.2)	µg/L		3881/19
Simazine	ND (0.2)	µg/L		3881/19
Ammonia, Total, as N	4.6	mg/L	08/05/1998	3836/78
Nitrate/Nitrite, as N	20.	mg/L	07/30/1998	3035/591

<u>Analysis</u>	<u>Date Prepared</u>	<u>QC Batch</u>	<u>Analyst</u>	<u>Analytical Method</u>
Sutan	07/27/1998	980727-1	SPA	8141A (M)
Treflan (Trifluralin) (OP)	07/27/1998	980727-1	SPA	8141A (M)
Nitrogen Herbicides Screen	07/27/1998	980727-1	SPA	8141A (M)
Ammonia, Total, as N	NA	980805-1	KLM	350.2, 350.3

-Continued-

## CONTINENTAL ANALYTICAL SERVICES, INC.

## LABORATORY REPORT

Page: 4

Client: Consulting Services Midwest, Inc.  
Lab Number: 98071448

<u>Analysis</u>	<u>Date Prepared</u>	<u>QC Batch</u>	<u>Analyst</u>	<u>Analytical Method</u>
Nitrate/Nitrite, as N	NA	980730-1	GT	353.2/SM4500NO3-F

Conclusion of Lab Number: 98071448

Laboratory analyses were performed on samples utilizing procedures published in Title 40 of the Code of Federal Regulations, Parts 136 or 141, or in EPA Publication, SW-846, 3rd edition, September, 1986 and the latest promulgated update. ND(), where noted, indicates none detected with the reporting limit in parentheses. Samples will be retained for thirty days unless otherwise notified.

CONTINENTAL ANALYTICAL SERVICES, INC.

*Clifford J. Baker*  
Clifford J. Baker  
Laboratory Director



Client/Sample ID: \_\_\_\_\_

Date cooler opened: 7-23-98 By: MWZ Continental File No.: \_\_\_\_\_

Date entered into LIMS: 7-23-98 By: PKG Continental Order No.: \_\_\_\_\_

Cooler Identification: CAS Cooler #: \_\_\_\_\_ / Client's Cooler / Box / Letter / Hand Delivered  
Other: \_\_\_\_\_

Cooler Size: Small / Medium / Large / NA

Delivered By: UPS / FedX / AirBrn / Pny Exp / Field S / Mail / Walk-In / Other \_\_\_\_\_

Air Bill Number: \_\_\_\_\_

Custody Seal: Present (Intact or Broken) Absent Seal No: \_\_\_\_\_

Seal Name: \_\_\_\_\_ Seal Date: \_\_\_\_\_

Seal matches Chain of Custody: Yes / No / NA

Type of Packing Material: Blue Ice / Ice / Bubble / Foam / Paper / Peanuts / Vermiculite / NA

Cooler Temperature (°C): 1 \_\_\_\_\_ 2 \_\_\_\_\_ 3 \_\_\_\_\_ 4 \_\_\_\_\_ 5 \_\_\_\_\_ 6 \_\_\_\_\_ 7 5 8 \_\_\_\_\_ 9 \_\_\_\_\_ 10 \_\_\_\_\_

Temp. By: Temp. Blank \_\_\_\_\_ Poured X Surface G P M

Thermo. ID No.: 153

Sample Receipt Discrepancies: ☐ No ☒ Yes (See detail below)

☐ Chain of Custody not present ☒ Broken or Leaking Containers: Ham MW-2

☐ Information obtained from: \_\_\_\_\_

Purchase Order / Letter received with samples ☐ Sample listed on Chain of Custody, not received:

☐ Container label absent ☐ Sample description on container label different from

☐ Chain of Custody incomplete Chain of Custody: \_\_\_\_\_

☐ Chain of Custody missing time sampled \_\_\_\_\_

☐ Time sampled obtained from container label \_\_\_\_\_

☐ Chain of Custody missing date sampled \_\_\_\_\_

☐ Date sampled obtained from container label \_\_\_\_\_

☐ Sample excluded from Chain of Custody: \_\_\_\_\_ ☐ Air bubbles in VOA vials: \_\_\_\_\_

Detailed Description/Comments: \_\_\_\_\_

Did Project Manager contact client regarding cooler/sample receipt conditions: Yes ☒ No ☐ 7/27/98

Who was contacted: Jeff Black Remarks: \_\_\_\_\_

Will send in new bottles for MWZ herbicide

Reviewed by Project Manager: for O'Donoghue Date: 7/23/98 7/27/98



(785) 827-1273 \* (800) 535-3076

FAX (785) 823-7830

# COOLER / SAMPLE RECEIPT FORM

Client/Sample ID: \_\_\_\_\_

Date cooler opened: 8-16-98 By: MWB Continental File No.: 6745

Date entered into LIMS: 8-16-98 By: \_\_\_\_\_ Continental Order No.: 50322

Cooler Identification:

CAS Cooler #: \_\_\_\_\_ / Client's Cooler / Box / Letter / Hand Delivered

Other: \_\_\_\_\_

Cooler Size:

Small / Medium / Large / NA

Delivered By:

UPS / FedX / AirBm / Pny Exp / Field S / Mail / Walk-In / Other \_\_\_\_\_

Air Bill Number: \_\_\_\_\_

Custody Seal:

Present (Intact or Broken) Absent Seal No: \_\_\_\_\_

Seal Name: \_\_\_\_\_ Seal Date: \_\_\_\_\_

Seal matches Chain of Custody: Yes / No / NA

Type of Packing Material:

BlueIce / Ice / Bubble / Foam / Paper / Peanuts / Vermiculite / NA \_\_\_\_\_

Cooler Temperature (°C):

1\_\_ 2\_\_ 3\_\_ 4\_\_ 5\_\_ 6\_\_ 7\_\_ 8\_\_ 9\_\_ 10\_\_ \_\_\_\_\_

Temp. By: Temp. Blank \_\_\_\_\_ Surface G Thermo. ID No.: 254

Sample Receipt Discrepancies: ☐ No ☒ Yes (See detail below)

☒ Chain of Custody not present ☐ Broken or Leaking Containers: \_\_\_\_\_

☐ Information obtained from: \_\_\_\_\_

☐ Purchase Order / Letter received with samples ☐ Sample listed on Chain of Custody, not received: \_\_\_\_\_

☐ Container label absent ☐ Sample description on container label different from \_\_\_\_\_

☐ Chain of Custody incomplete ☐ Chain of Custody: \_\_\_\_\_

☐ Chain of Custody missing time sampled \_\_\_\_\_

☐ Time sampled obtained from container label \_\_\_\_\_

☐ Chain of Custody missing date sampled \_\_\_\_\_

☐ Date sampled obtained from container label \_\_\_\_\_

☐ Sample excluded from Chain of Custody: \_\_\_\_\_ ☐ Air bubbles in VOA vials: \_\_\_\_\_

Detailed Description/Comments: MW-2 14 am

Did Project Manager contact client regarding cooler/sample receipt conditions: Yes / No

Who was contacted: \_\_\_\_\_ Remarks: \_\_\_\_\_

Reviewed by Project Manager: \_\_\_\_\_ Date: \_\_\_\_\_



**Midwest****Laboratories, Inc.**

13611 "B" Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 • FAX (402) 334-9121

**CONSULTING SERVICES MIDWEST****FRED BAUERMEISTER****P.O. BOX 848****ANKENY****IA 50021-**

ACCOUNT NO.	INVOICE NO.	DATE
2910	264060	03-Sep-97

**INVOICE**

Page 1 of 1

Lab Identification	Your ID or PO	Charges	Credit	Debit
97-220-2014 (352988)	9406120	1 Ammoniacal nitrogen, 1 Neutral Extractable Pesticides Pkg., 1 Nitrate nitrogen IOWA STATE SALES TAX for 97-220-2014 (352988)		216.00 10.80
<b>Total for 97-220-2014 (352988)</b>				<b>226.80</b>
97-220-2015 (352989)	9406120	1 Ammoniacal nitrogen, 1 Neutral Extractable Pesticides Pkg., 1 Nitrate nitrogen IOWA STATE SALES TAX for 97-220-2015 (352989)		216.00 10.80
<b>Total for 97-220-2015 (352989)</b>				<b>226.80</b>
97-220-2016 (352990)	9406120	1 Ammoniacal nitrogen, 1 Neutral Extractable Pesticides Pkg., 1 Nitrate nitrogen IOWA STATE SALES TAX for 97-220-2016 (352990)		216.00 10.80
<b>Total for 97-220-2016 (352990)</b>				<b>226.80</b>
97-220-2017 (352991)	9406120	1 Ammoniacal nitrogen, 1 Neutral Extractable Pesticides Pkg., 1 Nitrate nitrogen IOWA STATE SALES TAX for 97-220-2017 (352991)		216.00 10.80
<b>Total for 97-220-2017 (352991)</b>				<b>226.80</b>

DUE DATE	CURRENT INVOICE TOTAL
05-Oct-97	\$907.20



Report Number  
97-220-2014

13611 "B" Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 • FAX (402) 334-9121

### REPORT OF ANALYSIS

For: ( 2910) CONSULTING SERVICES MIDWEST  
(515)964-8200

Date Reported: 08/08/97

Date Received: 07/26/97

Date Sampled: 07/17/97

**Mail to:**       **CONSULTING SERVICES MIDWEST**  
                  **FRED BAUERMEISTER**  
                  **P.O. BOX 848**  
                  **ANKENY IA 50021-**

**PO/Proj. #: 9406120**  
**WATER ANALYSIS**

Lab Number: 352988    Sample ID: MW 1

Analysis	Level Found	Detection Limit	Analysis	Level Found	Detection Limit
Method: EPA 507 MODIFIED    Units: $\mu\text{g/L}$ Analyst: awr    Date: 08/08/97					
Acetochlor	n.d.	5	Pendimethalin (Prowl)	n.d.	10
Alachlor (Lasso)	n.d.	10	Phorate (Thimet)	n.d.	5
Atrazine (Aatrex)	n.d.	5	Prometon (Pramitol)	n.d.	8
Benfluralin (Balan)	n.d.	10	Propachlor (Ramrod)	n.d.	10
Butachlor	n.d.	10	Propazine (Milogard)	n.d.	5
Butylate (Sutan)	n.d.	5	Simazine (Princep)	n.d.	5
Chlorpyrifos (Dursban, Lorsban)	n.d.	5	Terbufos (Counter)	n.d.	13
Cyanazine (Bladex)	196	10	Triallate (Far-go)	n.d.	10
Dimethenamid	n.d.	10	Trifluralin (Treflan)	n.d.	10
EPTC (Eptam, Eradicane)	n.d.	8	Deethylatrazine	n.d.	5
Ethalfuralin (Sonalan)	n.d.	10	Deisopropylatrazine	n.d.	5
Fonofos (Dyfonate)	n.d.	5	Ametryn	n.d.	5
Metolachlor (Dual)	57	20	Prometryn	n.d.	5
Metribuzin (Sencor)	n.d.	5			

**Notes:**

n.d. - Not Detected.  
add'l report (DFT).

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Report Number  
97-220-2015

13611 "B" Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 • FAX (402) 334-9121

### REPORT OF ANALYSIS

For: ( 2910) CONSULTING SERVICES MIDWEST  
(515)964-8200

Date Reported: 08/08/97

Date Received: 07/26/97

**Mail to:** CONSULTING SERVICES MIDWEST  
FRED BAUERMEISTER  
P.O. BOX 848  
ANKENY IA 50021-

PO/Proj. #: 9406120  
WATER ANALYSIS

Lab Number: 352989 Sample ID: MW 2

Analysis	Level Found	Detection Limit	Analysis	Level Found	Detection Limit
Method: EPA 507 MODIFIED Units: $\mu\text{g/L}$ Analyst: awr Date: 08/07/97					
Acetochlor	0.3	0.2	Pendimethalin (Prowl)	n.d.	0.4
Alachlor (Lasso)	10.2	0.4	Phorate (Thimet)	n.d.	0.2
Atrazine (Aatrex)	4.2	0.2	Prometon (Pramitol)	n.d.	0.3
Benfluralin (Balan)	n.d.	0.4	Propachlor (Ramrod)	n.d.	0.4
Butachlor	n.d.	0.4	Propazine (Milogard)	n.d.	0.2
Butylate (Sutan)	n.d.	0.2	Simazine (Princep)	n.d.	0.2
Chlorpyrifos (Dursban, Lorsban)	n.d.	0.2	Terbufos (Counter)	n.d.	0.5
Cyanazine (Bladex)	1.4	0.4	Triallate (Far-go)	n.d.	0.4
Dimethenamid	n.d.	0.4	Trifluralin (Treflan)	n.d.	0.4
EPTC (Eptam, Eradicane)	7.9	0.3	Deethylatrazine	n.d.	0.2
Ethalfuralin (Sonalan)	n.d.	0.4	Deisopropylatrazine	n.d.	0.2
Fonofos (Dyfonate)	n.d.	0.2	Ametryn	n.d.	0.2
Metolachlor (Dual)	6.3	0.8	Prometryn	n.d.	0.2
Metribuzin (Sencor)	1.8	0.2			

**Notes:**

n.d. - Not Detected.  
add'l report (DFT).

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Report Number  
97-220-2015

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**REPORT OF ANALYSIS**

For: ( 2910) CONSULTING SERVICES MIDWEST  
(515)964-8200

Date Reported: 08/08/97

Date Received: 07/26/97

**Mail to:** CONSULTING SERVICES MIDWEST  
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P.O. BOX 848  
ANKENY IA 50021-

PO/Proj. #: 9406120  
WATER ANALYSIS

Lab number: 352989 Sample ID: MW 2

Analysis	Level Found	Units	Detection Limit	Method	Analyst- Date
Ammoniacal nitrogen	72.8	mg/L	0.10	EPA 350.2	cmw-07/25
Nitrate nitrogen	70	mg/L	2	EPA 353.2	jjd-07/19

Notes:  
add'l report (DUAL)

Respectfully Submitted

Heather Ramig  
Client Services

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Report Number  
97-220-2016

13611 "B" Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 • FAX (402) 334-9121

### REPORT OF ANALYSIS

For: ( 2910) CONSULTING SERVICES MIDWEST  
(515)964-8200

Date Reported: 08/08/97  
Date Received: 07/26/97

**Mail to:**       **CONSULTING SERVICES MIDWEST**  
                  **FRED BAUERMEISTER**  
                  **P.O. BOX 848**  
                  **ANKENY IA 50021-**

PO/Proj. #: 9406120  
WATER ANALYSIS

Lab Number: 352990    Sample ID: MW 3

Analysis	Level Found	Detection Limit	Analysis	Level Found	Detection Limit
Method: EPA 507 MODIFIED    Units: $\mu\text{g/L}$ Analyst: awr    Date: 08/08/97					
Acetochlor	13	2	Pendimethalin (Prowl)	n.d.	4
Alachlor (Lasso)	5	4	Phorate (Thimet)	n.d.	2
Atrazine (Aatrex)	43	2	Prometon (Pramitol)	n.d.	3
Benfluralin (Balan)	n.d.	4	Propachlor (Ramrod)	n.d.	4
Butachlor	n.d.	4	Propazine (Milogard)	n.d.	2
Butylate (Sutan)	n.d.	2	Simazine (Princep)	n.d.	2
Chlorpyrifos (Dursban, Lorsban)	n.d.	2	Terbufos (Counter)	n.d.	5
Cyanazine (Bladex)	36	4	Triallate (Far-go)	n.d.	4
Dimethenamid	n.d.	4	Trifluralin (Treflan)	n.d.	4
EPTC (Eptam, Eradicane)	n.d.	3	Deethylatrazine	n.d.	2
Ethalfuralin (Sonalan)	n.d.	4	Deisopropylatrazine	n.d.	2
Fonofos (Dyfonate)	n.d.	2	Ametryn	n.d.	2
Metolachlor (Dual)	114	8	Prometryn	n.d.	2
Metribuzin (Sencor)	6	2			

**Notes:**

n.d. - Not Detected.  
add'l report (DFT).

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**REPORT OF ANALYSIS**

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ANKENY IA 50021-

PO/Proj. #: 9406120  
WATER ANALYSIS

Lab number: 352990    Sample ID: MW 3

Analysis	Level Found	Units	Detection Limit	Method	Analyst- Date
Ammoniacal nitrogen	68.3	mg/L	0.10	EPA 350.2	cmw-07/25
Nitrate nitrogen	145	mg/L	2	EPA 353.2	jjd-07/19

Notes:  
add'l report (DUAL)

Respectfully Submitted

  
Heather Ramig  
Client Services

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97-220-2017

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                  **P.O. BOX 848**  
                  **ANKENY IA 50021-**

**PO/Proj. #: 9406120**  
**WATER ANALYSIS**

Lab Number: 352991    Sample ID: MW 6

Analysis	Level Found	Detection Limit	Analysis	Level Found	Detection Limit
Method: EPA 507 MODIFIED    Units: $\mu\text{g/L}$ Analyst: awr    Date: 08/07/97					
Acetochlor	n.d.	0.2	Pendimethalin (Prowl)	n.d.	0.4
Alachlor (Lasso)	2.2	0.4	Phorate (Thimet)	n.d.	0.2
Atrazine (Aatrex)	1.8	0.2	Prometon (Pramitol)	n.d.	0.3
Benfluralin (Balan)	n.d.	0.4	Propachlor (Ramrod)	n.d.	0.4
Butachlor	n.d.	0.4	Propazine (Milogard)	n.d.	0.2
Butylate (Sutan)	0.3	0.2	Simazine (Princep)	n.d.	0.2
Chlorpyrifos (Dursban, Lorsban)	n.d.	0.2	Terbufos (Counter)	n.d.	0.5
Cyanazine (Bladex)	1.3	0.4	Triallate (Far-go)	n.d.	0.4
Dimethenamid	n.d.	0.4	Trifluralin (Treflan)	n.d.	0.4
EPTC (Eptam, Eradicane)	0.7	0.3	Deethylatrazine	n.d.	0.2
Ethalfuralin (Sonalan)	n.d.	0.4	Deisopropylatrazine	n.d.	0.2
Fonofos (Dyfonate)	n.d.	0.2	Ametryn	n.d.	0.2
Metolachlor (Dual)	6.7	0.8	Prometryn	n.d.	0.2
Metribuzin (Sencor)	n.d.	0.2			

**Notes:**

n.d. - Not Detected.  
add'l report (DFT).

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P.O. BOX 848  
ANKENY IA 50021-

PO/Proj. #: 9406120  
WATER ANALYSIS

Lab number: 352991 Sample ID: MW 6

Analysis	Level Found	Units	Detection Limit	Method	Analyst-Date
Ammoniacal nitrogen	7.95	mg/L	0.10	EPA 350.2	cmw-07/25
Nitrate nitrogen	58	mg/L	2	EPA 353.2	jjd-07/19

Notes:  
add'l report (DUAL)

Respectfully Submitted

  
Heather Ramig  
Client Services

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