## BARKERLEMAR

ENGINEERING CONSULTANTS

CON 12-15 Doc #13863

2003 Monitoring Report Northwest Farm Services, Inc. Le Mars, IA

> Project No. GMKIA 014 December 2003



NORTHWEST FARM SERVICES, INC.
LEMARS, IOWA
PROJECT NO. GMKIA 014

### 1.0 INTRODUCTION

Activities conducted in 2003 have included operation, maintenance, and shutdown of a soil vapor extraction (SVE) system at the site and monitoring of the dissolved phase hydrocarbon plume via groundwater sampling. This report describes the site monitoring activities conducted in 2003.

#### 2.0 BACKGROUND

The area subject to the remedial and monitoring activities described herein is the former aboveground storage tank (AST) location in the northern portion of the site. The approximate site location is shown in Figure 1. Figure 2 is a site map showing monitoring well locations and pertinent site features.

As stated in previous reports, Terracon conducted initial assessment activities at the site. More detailed information regarding the site location, geology and topography, survey of surrounding properties, historical review, and agricultural and petroleum assessment results can be found in the report entitled *Limited Environmental Site Assessment, Northwest Farm Services*, July 9, 1997, prepared by Terracon Environmental, Inc. Additional groundwater assessment activities associated with the former ASTs were conducted by Barker, Lemar and Associates, Inc. and reported in the report entitled *Additional Environmental Assessment, Northwest Farm Services, Inc.* October 1998. The activities were primarily for the purposes of further dissolved phase hydrocarbon plume definition.



Prior to the 2<sup>nd</sup> quarter of 2001, the groundwater sampling activities were conducted annually at the site in general accordance with the Action Plan dated January 7, 1999, prepared by BARKER LEMAR and accepted by the Iowa Department of Natural Resources (IDNR) as indicated in correspondence dated January 28, 1999. Groundwater sampling was increased to quarterly through 2001 based on an April 19, 2001, request by the IDNR. In a letter dated February 12, 2002, the IDNR reduced groundwater monitoring requirements to semi-annual groundwater sampling of monitoring wells MW-1, MW-2, and MW-4 through 2002. In a letter dated February 19, 2003 the IDNR concurred with the proposal to take the SVE System off-line to determine if free product removal is no longer needed. Based on the IDNR correspondence, the system was taken off-line in February 2003.

#### 3.0 FIELD ACTIVITIES

#### 3.1 FREE PRODUCT MONITORING

The monitoring wells were checked for free product on August 8, 2003 and November 19, 2003 and free product was not detected. Free product has not been observed at the site since December of 2000.

#### 3.2 GROUNDWATER SAMPLING

BARKER LEMAR personnel were on-site on November 19, 2003, to collect groundwater samples from monitoring wells MW-1, MW-2, and MW-4 and to measure groundwater levels in accessible monitoring wells. Monitoring well MW-1 could not be sampled due to equipment being on top of the well.

#### 4.0 SAMPLING RESULTS

#### 4.1 GROUNDWATER SAMPLING RESULTS

Groundwater samples were collected from monitoring wells MW-2, and MW-4 in 2003. Measured BTEX concentrations in the November 19, 2003 groundwater samples were below regulatory levels in the two sampled wells. Compared to the previous analytical



results, the following were noted:

MW-1: Monitoring well MW-1 is located southwest of the former ASTs and is within 10 feet of an SVE well. Free product was not observed in this well in 2001, 2002, or 2003. Dissolved BTEX concentrations measured in monitoring well MW-1 decreased in 2002 when compared to results for previous years and measured BTEX concentration in the sample collected in November 2002 were below regulatory levels. Monitoring well MW-1 could not be sampled due to equipment being on top of the well.

MW-2: Monitoring well MW-2 is located northwest of the former AST location and is within approximately 20 feet of an SVE well. Free product was not observed in this well in 2001, 2002, or 2003. Maximum dissolved BTEX concentrations were measured in this well in July 1998. Overall, BTEX concentrations have decreased since that date. Groundwater results for 2003 are consistent with this overall declining trend in BTEX concentrations and measured concentrations of these compounds have remained below laboratory reporting limits and/or applicable regulatory levels for 2003.

MW-4: Monitoring well MW-4 is positioned slightly northeast of the location of the former ASTs and is within approximately 25 feet of an SVE well. Free product was not observed in this well in 2001, 2002, or 2003. BTEX concentrations decreased during 2003 when compared to the previously measured concentrations and they were below applicable regulatory levels in the most recent sample collected in November 2003.

The groundwater analytical results from monitoring wells MW-2 and MW-4 indicate that rebounding has not occurred since the remediation system shut down. In fact, the decreasing trend has continued without the aid of active remediation, indicating that natural attenuation may be sufficient to address the remainder of the plume. Groundwater analytical data from the



November 19, 2003 and November 22, 2002, sampling events are presented on Figures 3A and 3B, respectively. Table 1 contains an historical summary of the groundwater analytical data from the monitoring wells since 1997. Laboratory analytical data sheets and chain-of-custody documentation are contained in Attachment A.

#### 5.0 SUMMARY

The SVE system installed at the site has been effective in removing a significant quantity of free phase product from the subsurface, estimated at over 17,932 pounds and reducing groundwater hydrocarbon concentrations. Free product is no longer measurable in monitoring wells at the site and has not been since December 2000 and groundwater concentrations are below the corrective action levels established previously. The SVE System was taken off line in February 2003 to determine if free product removal and active remediation are no longer required. The dissolved phase hydrocarbon plume appears to be diminishing in magnitude and extent, likely due to the enhanced volatilization and treatment of secondary soil leaching sources resulting from the SVE system operation. The measured BTEX concentrations in the most recent sampling event conducted in November 2003 were below applicable regulatory limits for the sampled wells indicating rebounding following system shut-down is not occurring.

#### 6.0 RECOMMENDATIONS

The IDNR, in correspondence dated February 19, 2003, concurred to take the SVE system off line to determine if free product removal is no longer required. The IDNR recommended that periodic monitoring of free product in monitoring wells MW-1, MW-2, MW-3, MW-4, and MW-8 be conducted. Based on the periodic free product monitoring and groundwater monitoring results for 2003, it is recommended that the classification of the site be changed to a "No Further Action" status. Additionally, it is recommended that the SVE system be removed and the monitoring wells be properly abandoned. A copy of this report should be forwarded to the lowa Department of Natural Resources.



## 7.0 GENERAL COMMENTS

The analysis and opinions expressed in this report are based upon data obtained from the monitoring wells installed at the indicated locations and from any other information discussed in this report. This report does not reflect any variations in chemical concentrations that may occur between sampling locations or across the site. Actual subsurface conditions may vary and may not become evident without further exploration.

BARKER LEMAR has prepared this report for the exclusive use of our client for the specific application to the project discussed, and the report has been prepared in accordance with generally-accepted environmental engineering practices. No warranties, either express or implied, are intended or made. In the event any changes in the nature or location of suspected sources of chemical impact or other subsurface conditions, as outlined in this report, are observed, the conclusions contained herein cannot be considered valid unless changes are reviewed and the opinions of this report are modified or verified in writing by BARKER LEMAR.

**TABLE** 

#### TABLE 1

## SUMMARY OF GROUNDWATER SAMPLING

### PETROLEUM HYDROCARBONS - IOWA METHOD OA-1

### NORTHWEST FARM SERVICES, INC.

## LE MARS, IOWA

PROJECT NO. GMKIA 014

MONITORING	SAMPLE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES
WELL	DATE	(ug/L)	(ug/L)	(ug/L)	(ug/L)
MW-1	4/24/1997	250	860	2,700	12,000
	7/9/1998	9.000	16,000	2,500	13,000
	8/5/1999	7,000	22,000	3,800	20,000
	7/27/2000	8,480	14,600	2,410	14,000
	6/13/2001	4,150	29,000	8,260	59,000
	8/30/2001	4,470	26,600	2,780	14,300
	12/14/2001	2,800	15,400	2,550	18,900
	5/15/2002	1,610	10,300	1,620	13,000
	11/22/2002	248	1,830	651	6,290
	11/19/2003	Well could	not be sampled du	e to equipment on t	op of well
MW-2	4/24/1997	240	850	2,300	12,000
	7/9/1998	1,400	. 13,000	7,100	37,000
	8/5/1999	280	720	1,100	10,000
	7/27/2000	188	506	376	554
	6/13/2001	<5	69	96	4,350
	8/30/2001	3	21	5	1,830
	12/14/2001	<2	5	3	48
	5/13/2002	<1	<1	<1	6
	11/22/2002	1	<5	<0.5	2
	11/19/2003	<1	<1	<1	<3
MW-3	4/24/1997	<2.0	6.5	9.6	61
	7/9/1998	<2.0	<2.0	<2.0	<3.0
	8/5/1999	<2.0	<2.0	<2.0	<3.0
	7/27/2000	12	13	11	103
	6/13/2001	1,360	7	<2	144
	8/30/2001	107	15	3	28
	12/14/2001	2	<2	<2	5
MW-4	4/24/1997	7,400	3,600	300	4,300
	7/9/1998	6,400	14,000	3,000	17,000
	8/5/1999	6,100	14,000	2,000	13,000
	7/27/2000	7,890	18,600	1,770	10,800
	6/13/2001	1,080	4,170	1,450	10,400
	8/30/2001	748	3,950	1,250	9,930
	12/14/2001	935	10,500	2,910	20,200
	5/13/2002	294	5,120	2,500	15,700
-	11/22/2002	39 <5	458	1,240	1,650
101/5	11/19/2003		<5	<5	44
MW-5	4/24/1997	4,400	19,000	4,800	23,000
	7/9/1998	7,400	3,700	280	5,700
•	8/5/1999	11,000	4,700	270 event or subsequent	5,300
MW-6	7/27/2000				
IVIVV-O	7/9/1998 8/5/1999	<2.0	<2.0	<2.0	<3.0
NAVA 7				event or subsequent	
MW-7	7/9/1998	<2.0	<2.0	<2.0	<3.0
	8/5/1999	<2.0	2.6	2.9	16
NAVA C	7/27/2000			event or subsequent	
MW-8	7/9/1998	590	2.6	<2.0	4.4
	8/5/1999	170	5.7	4	21
	7/27/2000	1,900	<5.0	<5.0	<15
	6/13/2001	4	· <1	<1	<1
	8/30/2001	5	<1	<1	<1
1414/0	12/14/2001	6	1.0	<1	<1
MW-9	7/9/1998	<2.0	<2.0	<2.0	<2.0
į	8/5/1999	2.1	38	31	190
	7/27/2000	vveii not located di	uring this sampling	event or subsequent	sampling events.
pplicable Regula	tory Level (1)	290	7,300	3,700	73,000

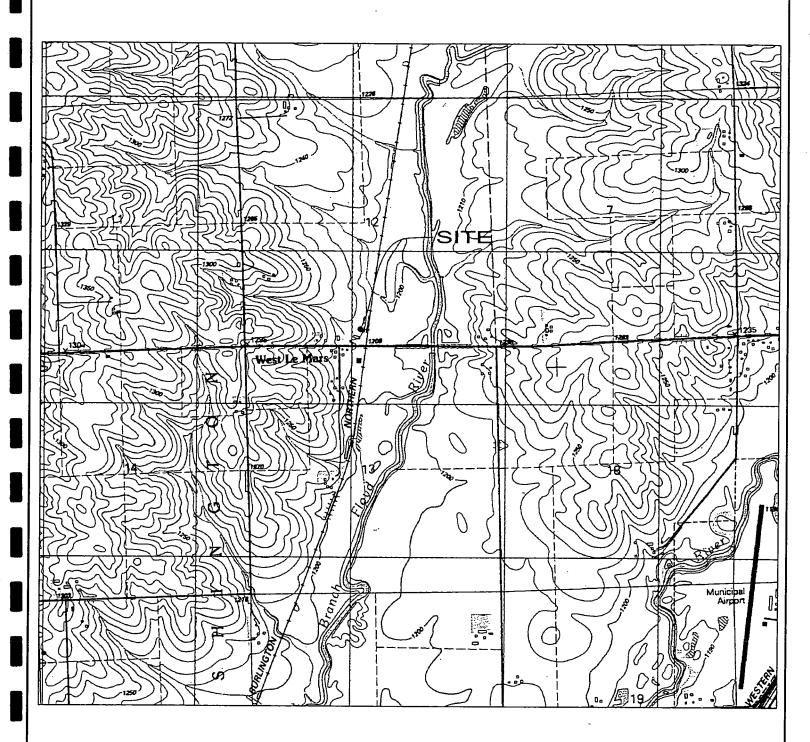
ug/L - Indicates parts per billion, generally equivalent to micrograms per liter (ug/L).

Applicable Regulatory Level as proposed in the Workplan Addendum dated May 22, 1998. Level equivalent to the IAC Chapter 135 Tier 1 levels for Groundwater Ingestion Potential Receptor and Groundwater to Plastic Waterline Pathways. Bold indicates in excess of Applicable Regulatory Level.

**FIGURES** 



SCALE 0 2000 FT.



REFERENCE: U.S.G.S Quodrangle, Le Mars, IA, 1985

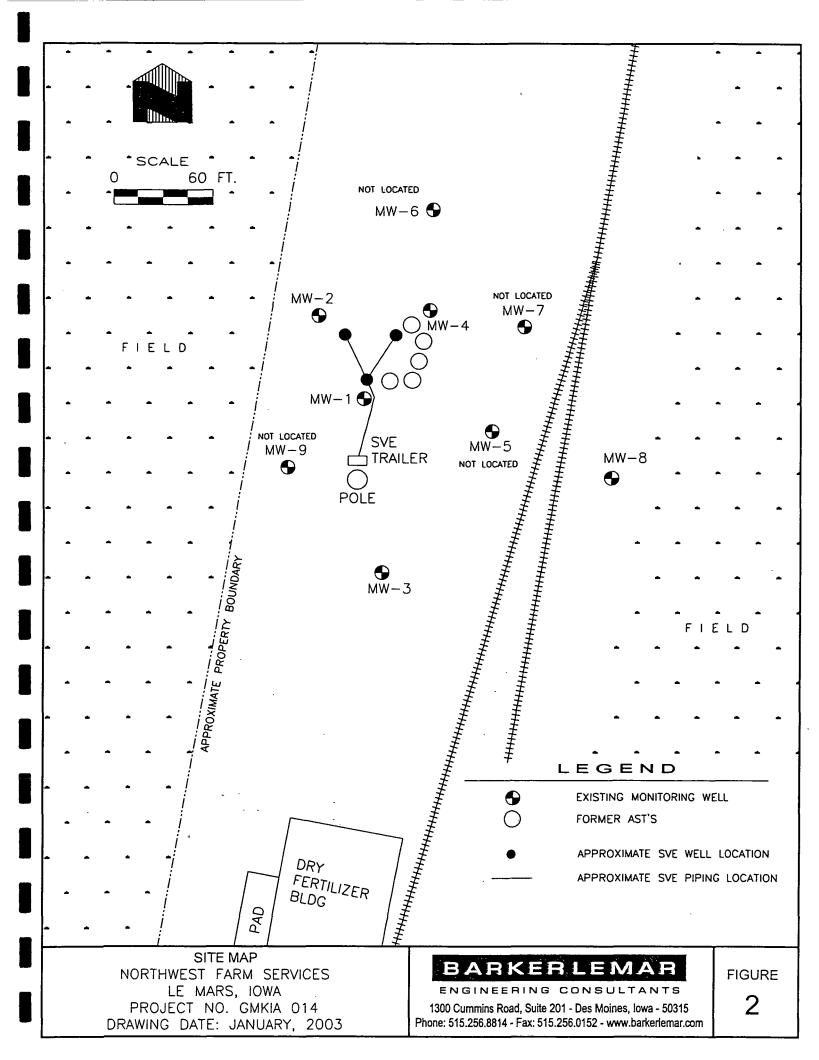
TOPOGRAPHIC MAP
NORTHWEST FARM SERVICES
LE MARS, IOWA
PROJECT NO. GMKIA 014
DRAWING DATE: DECEMBER, 2003

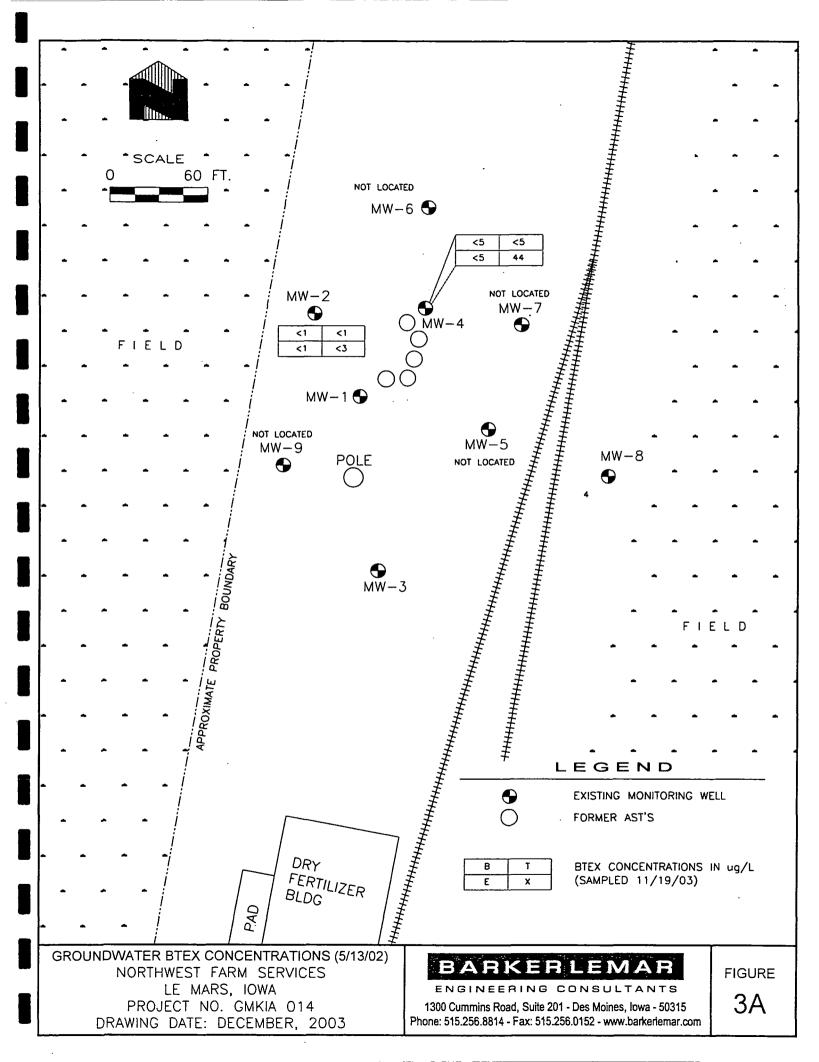
## BARKERLEMAR

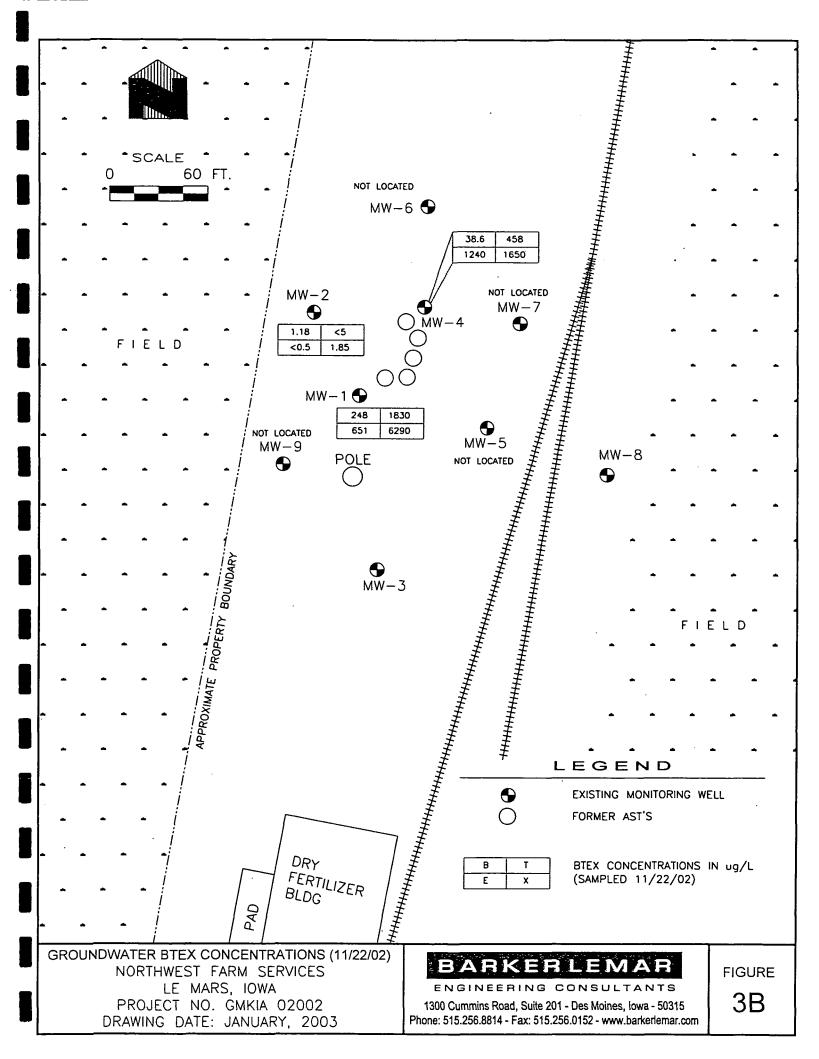
ENGINEERING CONSULTANTS

1300 Cummins Road, Suite 201 - Des Moines, Iowa - 50315 Phone: 515.256.8814 - Fax: 515.256.0152 - www.barkerlemar.com **FIGURE** 

1







ATTACHMENT A
LABORATORY REPORTS



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## **ANALYTICAL REPORT**

DEC 0 5 2003

Blaine Kussatz

BARKER, LEMAR & ASSOCIATES

1300 Cummins Road, #201

Des Moines, IA 50315

515-256-8814

12/03/2003

Job Number:

03.15964

Sample Number:

771372

Collected by: Kevin Hensley

Collectors Phone No.: 515-256-8814

Job Description: LE MARS

Date Taken: 11/19/2003

Sample ID: MW-2					Date Received		
Analyte UST VOLATILE COMPOUNDS - 8260	Result	Result <u>Units</u> Flag	Analyst	Date Analyzed	<u>Method</u>	QuantitationLimit	<u>Matrix</u>
Benzene	<1.0	ug/L	dmd	11/29/2003	IA OA-1/8260B	1.0	WATER
Toluene	<1.0	ug/L	dmd	11/29/2003	IA OA-1/8260B	1.0	WATER
Ethylbenzene	<1.0	ug/L	dmd	11/29/2003	IA OA-1/8260B	1.0	WATER
Xylenes	<3.0	ug/L	dmd	11/29/2003	IA OA-1/8260B	3.0	WATER
MTBE	<1.0	ug/L	dmd	11/29/2003	IA OA-1/8260B	1.0	WATER
VOA Preservation pH	<2	units	sjg	12/01/2003	SW 9041A		WATER

All results are calculated on a wet weight basis.

R. L. Bindert

Operations Manager IA UST LAB CERTIFICATION NO. 0007



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## **ANALYTICAL REPORT**

Blaine Kussatz BARKER, LEMAR & ASSOCIATES 1300 Cummins Road, #201 Des Moines, IA 50315

515-256-8814

12/03/2003

Job Number: 03.15964

Sample Number: 771373

Collected by: Kevin Hensley

Collectors Phone No.: 515-256-8814

Job Description: LE MARS

Date Taken: 11/19/2003

WATER

Sample ID: MW-4

VOA Preservation pH

Date Received: 11/21/2003 Result Date Quantitation Limit <u>Units</u> Flag <u>Analyte</u> Result Analyst Analyzed Matrix Method UST VOLATILE COMPOUNDS - 8260 R 12/02/2003 IA OA-1/8260B Benzene <5.0 ug/L dmdWATER Toluene <5.0 ug/L dmd12/02/2003 IA OA-1/8260B WATER IA OA-1/8260B WATER Ethylbenzene < 5.0 uq/L dmd 12/02/2003 5.0 IA OA-1/8260B Xylenes ug/L dmd 12/02/2003 WATER MTBE <5.0 ug/L 12/02/2003 IA OA-1/8260B WATER

sjq

12/01/2003

SW 9041A

All results are calculated on a wet weight basis. R - Reporting limit elevated due to matrix interferences

<2

units

R. L. Bindert Operations Manager IA UST LAB CERTIFICATION NO. 0007



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### QUALITY CONTROL REPORT

BARKER, LEMAR & ASSOCIATES 1300 Cummins Road, #201 Des Moines, IA 50315 12/03/2003

Job Number: 03.15964

Blaine Kussatz

Enclosed is the Quality Control data for the following samples submitted to TestAmerica, Inc. - Cedar Falls for analysis:

Sample	Sample Description	Date	Date
Number		Taken	Received
771372	MW - 2	11/19/2003	11/21/2003
771373	MW - 4	11/19/2003	11/21/2003

This Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Iowa Laboratory Certification number - 7



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## **QUALITY CONTROL REPORT**

BARKER, LEMAR & ASSOCIATES 1300 Cummins Road, #201 Des Moines, IA 50315 12/03/2003

Blaine Kussatz

Job Number: 03.15964

	Result	Units	Date Analyzed	Prep Batch Number	Run Batch Number	Analysis Method	Quantitation Limit
771372 MW-2		:	11/19/2003				
UST VOLATILE COMPOUNDS - 8260							
Benzene	<1.0	ug/L	11/29/2003		3930	IA OA-1/8260B	1.0
Toluene	<1.0	ug/L	11/29/2003		3930	IA OA-1/8260B	1.0
Ethylbenzene	<1.0	ug/L	11/29/2003		3930	IA OA-1/8260B	1.0
Xylenes	<3.0	ug/L	11/29/2003		3930	IA OA-1/8260B	3.0
MTBE	<1.0	ug/L	11/29/2003		3930	IA OA-1/8260B	1.0
Toluene-d8 (Surr.)	97	용	11/29/2003		3930	IA OA-1/8260B	1
4-Bromofluorobenzene (Surr.)	89	*	11/29/2003		3930	IA OA-1/8260B	1
VOA Preservation pH	<2	units	12/01/2003		838	SW 9041A	
771373 MW-4		נ	11/19/2003				
UST VOLATILE COMPOUNDS - 8260							
Benzene	<5.0	ug/L	12/02/2003		3932	IA OA-1/8260B	5.0
Toluene	<5.0	ug/L	12/02/2003		3932	IA OA-1/8260B	5.0
Ethylbenzene	<5.0	ug/L	12/02/2003		3932	IA OA-1/8260B	, 5.0
Xylenes	44	ug/L	12/02/2003		3932	IA OA-1/8260B	15
MTBE	<5.0	ug/L	12/02/2003		3932	IA OA-1/8260B	5.0
Toluene-d8 (Surr.)	93	*	12/02/2003		3932	IA OA-1/8260B	5
4-Bromofluorobenzene (Surr.)	92	8	12/02/2003		3932	IA OA-1/8260B	5
VOA Preservation pH	<2	units	12/01/2003		837	SW 9041A	



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## QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

BARKER, LEMAR & ASSOCIATES 1300 Cummins Road, #201 Des Moines, IA 50315 12/03/2003

Blaine Kussatz

Job Number: 03.15964

	Prep Batch	Run Batch	CCV True	Concentration	Percent
Analyte	Number	Number	Concentration	Found	Recovery
UST VOLATILE COMPOUNDS - 8260					
Benzene		3930	100.0	104	104.0
Toluene		3930	100.0	105	105.0
Ethylbenzene		3930	100.0	109	109.0
Xylenes		3930	300.0	323	107.7
MTBE		3930	100.0	91.4	91.4
Toluene-d8 (Surr.)		3930	100.0000	102.0	102.0
4-Bromofluorobenzene (Surr.)		3930	100.0000	104.0	104.0
UST VOLATILE COMPOUNDS - 8260					
Benzene		3932	100.0	98.3	98.3
Toluene		3932	100.0	103	103.0
Ethylbenzene		3932	100.0	105	105.0
Xylenes		3932	300.0	318	106.0
MTBE		3932	100.0	86.1	86.1
Toluene-d8 (Surr.)		3932	100.0000	104.0	104.0
4-Bromofluorobenzene (Surr.)		3932	100.0000	109.0	109.0

CCV - Continuing Calibration Verification



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## QUALITY CONTROL REPORT BLANKS

BARKER, LEMAR & ASSOCIATES 1300 Cummins Road, #201 Des Moines, IA 50315

12/03/2003

Blaine Kussatz

Job Number: 03.15964

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis	Units
UST VOLATILE COMPOUNDS - 8260				
Benzene		3930	<1.0	ug/L
Toluene		3930	<1.0	ug/L
Ethylbenzene		3930	<1.0	ug/L
Xylenes		3930	<3.0	ug/L
MTBE		3930	<1.0	ug/L
UST VOLATILE COMPOUNDS - 8260				
Benzene .		3932	<1.0	ug/L
Toluene		3932	<1.0	ug/L
Ethylbenzene		3932	<1.0	ug/L
Xylenes		3932	<3.0	ug/L
MTBE		3932	<1.0	ug/L



# QUALITY CONTROL REPORT Page 7 of 8 LABORATORY CONTROL STANDARD

12/03/2003

Blaine Kussatz BARKER, LEMAR & ASSOCIATES 1300 Cummins Road, #201 Des Moines, IA 50315

Job No: 03.15964

_	Prep	Run									
	Batch	Batch	LCS		LCS	LCSD	LCS	LCSD	Control		RPD Max.
alyte	Number	Number	Amount	Units	Result	Result	% Rec	* Rec	Limits	RPD	Limit
HET VOLATILE COMPOUNDS - 8											
nzene		3930	20.0	ug/L	20.4	20.2	102.0	101.0	81 - 124	1.0	27
<b>Fo</b> luene		3930	20.0	ug/L	19.9	16.6	99.5	83.0	73 - 127	18.1	21
Ethylbenzene		3930	20.0	ug/L	20.4	16.4	102.0	82.0	65 - 140	21.7	24
lenes		3930	60.0	ug/L	59.6	52.0	99.3	86.7	75 - 130	13.6	20
ве		3930	20.0	ug/L	18.6	18.2	93.0	91.0	70 - 133	2.2	26
Toluene-d8 (Surr.)		3930	100	¥	98.0	85	98.0	85.0	76 - 120	14.2	20
4-Bromofluorobenzene (Surr	•	3930	100	*	99.0	84	99.0	84.0	76 - 116	16.4	20
T VOLATILE COMPOUNDS - 8											
nzene		3932	20.0	ug/L	19.7	19.4	98.5	97.0	81 - 124	1.5	27
Toluene		3932	20.0	ug/L	16.9	16.0	84.5	80.0	73 - 127	5.5	21
Erhylbenzene		3932	20.0	ug/L	16.9	16.2	84.5	81.0	65 - 140	4.2	24
lenes		3932	60.0	ug/L	51.9	49.5	86.5	82.5	75 - 130	4.7	20
BE		3932	20.0	ug/L	17.4	18.5	87.0	92.5	70 - 133	6.1	26
Toluene-d8 (Surr.)		3932	100	*	84.0	84	84.0	84.0	76 - 120	0.0	20
Bromofluorobenzene (Surr		3932	100	*	85.0	85	85.0	85.0	76 - 116	0.0	20



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TestAmerica Job Number: 03.15964

#### **ATTACHMENTS**

Following are the sample receipt log and the chain of custody applicable to this analytical report.

Any abnormalities or departures from sample acceptance policy shall be documented on the "Sample Receipt and Temperature Log Form" and Sample Non-Conformance Form" (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility please visit our website at www.TestAmericaInc.com.

This data has been produced in compliance with 2001 NELAC Standards (July 2003), except where noted.

This report shall not be reproduced, except in full, without written approval of the laboratory.

For questions regarding this report, please contact the individual who signed the analytical report.

## Test/merica

Cedar Falls Division 704 Enterprise Drive Cedar Falls, IA 50613 Phone 319-277-2401 or 800-750-2401 Fax 319-277-2425

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?

Compliance Monitoring

Client Name	Burk	ler 1	lem	er					. 0	Clien	nt #:				_									
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Sampler Name: (Print Name)															_		oice To							
Sampler Signature:	In.	21		1	0											C	Quote #					_ PO#:		
			-		Matrix	Pre	serva	tion	�	of Co	ontai	ners				***	Analy	ze For:			· · · · · · ·	<del></del>		
TATStandardRush (surcharges may apply)  Date Needed:  Fax Results: Y N  SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	SL - Studge DW - Drinking Water GW - Groundwater S - Soil/Soild WW - Wastewater Specify Other	ноз	HC!	NaOH	4 <sub>2</sub> SO₄	Methanol	None	Other (Specify)	1, 80	( RIEN-MITAE)					$^{\prime}//$					QC Deliverables None Level 2 (Batch QC) Level 3 Level 4 Other:
	11/19	5:45		II.	<u>503</u>	Ī	1	Ž	<del>-</del>	3	Ž	Ŏ.			1	_	<del>                                     </del>	$\leftarrow$	_			<del> </del>	<del> </del>	REMARNS
mw-2 mw-4	11/19	5:30			6 W		2			$\dashv$	<u> </u>	Н	X		+	╁──	<del>                                     </del>		<del> </del>	<del>                                     </del>	<del> </del>		<del> </del>	
, , , , , , , , , , , , , , , , , , ,	''// ]	3.20	<del> </del>	<del>                                     </del>	$\omega \omega$				$\neg$	$\neg$						<del> </del>	<del> </del>	<del>                                     </del>	<del>                                     </del>	<b> </b>			<b></b>	
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Special instructions:																				RATOF ilt Lab lec Lab	Temp:			
Relinquished By	4	Date://	le i	Time	:	Rec	eive	і Ву	þ	4	ΔM	or	Car		Date;/	12/05	Time:	1:15	Custo	dy Sea	ls: Y	<u>.</u> N	N/	A : Y· N
Relinquished By:		Date:		Time	):	Rec	eive	ј Ву	11	10	K	_/4	W	1	Date:/	1-21	Time: /	18;50	Bottle	s Supp	lied by	Test A	merica	: Y N
Relinquished By:		Date:		Time	<b>)</b> :	Rec	eive	d By	<i>/</i> :						Date:		Time:		Metho	d of SI	upmen		· .	<u>.</u>

# Test/America

704 Enterprise Drive • Cedar Falls, IA 50613 • 800-750-2401 • 319-277-2425 Fax

ANALYTICAL TESTING CORPORATION

## Sample Receipt and Temperature Log Form

Client: BARKER LEI	Me Pro	ject: <u>LeMars</u>	
Client: BARKER LEI			
Date: 11-21-03 Recei	ver's Initials <u>May</u>	Time (Delivered): 18:50	
Temperature Record	Thermometer:	Courier:	
Cooler ID# (If Applicable)	IR - 905085 "A" IR - 809065 "B"	Airborne Speedy UPS TA Courier	
l_° C/On Ice	CF07-03-T2	V elocity TA Field Sve	S
Temp Blank		US Postel Other	
Temperature out of comp		xceptions Noted	
Custody seals present? Yes		Sample(s) not received in a cooler.	
Custody seals intact?  Yes No		Samples(s) received within 6 hrs of sampling.	
Non-Conformance repo	ort started	Temperature not taken:	
	·		

Log-In by:

JP MF EM

\*Refer to SOP CF01-01 for Temperature Criteria