

## ADDITIONAL SITE ASSESSMENT REPORT

**BNSF Railway Company**  
**Dwight Glover, Former Lease 40,580,246**  
Knoxville, Iowa  
Marion County

EMR Project No. 6981.001

*Prepared for:*

Ms. Judith M. McDonough  
Manager of Environmental Remediation  
**BNSF Railway Company**  
4515 Kansas Avenue  
Kansas City, Kansas 66106

*Prepared by:*

**EMR, Inc.**  
5301 East River Road, Suite 114  
Fridley, MN 55421

**OCTOBER 2005**



**ENVIRONMENTAL MANAGEMENT RESOURCES**

# **ADDITIONAL SITE ASSESSMENT REPORT**

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4515 Kansas Avenue  
Kansas City, Kansas 66106

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**EMR, Inc.**  
5301 East River Road, Suite 114  
Fridley, MN 55421

**OCTOBER 2005**



October 24, 2005

Mr. Hylton Jackson  
Environmental Specialist  
Iowa Department of Natural Resources  
502 East 9<sup>th</sup> Street  
Des Moines, Iowa 50319

**RE: Additional Site Assessment  
Dwight Glover, Knoxville, Marion County, Iowa  
BNSF Leased Property No. 40,580,246  
EMR Project Number 6981.001**

Dear Mr. Jackson,

EMR, Inc. has completed an additional investigation for the Limited Phase II Assessment for the above referenced property. This additional investigation is in response to a letter from the Iowa Department of Natural Resources (IDNR) dated May 17, 2004, in which they requested that BNSF needs to further investigate the southern half of the property. This letter is submitted to present our findings of our investigation of the southern half of the property and should be viewed as an addition to the initial Limited Phase II Assessment Report submitted by EMR in November, 2003.

### **Background and Setting**

The property is located southwest of the intersection of Rock Island Street and Kent Street approximately 10 feet north of the former BNSF Railway Company (BNSF) rail spur in the community of Knoxville, Marion County, Iowa (Figure 1). The parcel is rectangular and contains approximately 15,600 square feet (130' x 120') (Figure 2). The property is comprised of one parcel, and was leased to Dwight Glover, doing business as Glover Sanitation in November 1993 for the purpose of storage of a truck, cars, and a location of a shop. The property was formerly a bulk oil site reportedly operated by Sinclair Refining. Historical improvements included one warehouse/storage building and aboveground storage tanks.

### **Findings**

EMR conducted a Phase II investigation on October 15, 2003. At the time of the site visit, the subject property was not in operation. Improvements remaining the parcel include one cement block storage building (access was locked), one concrete drainage culvert opening, one drainage access, one concrete driveway entrance, and a gravel driveway. Also observed on the subject property are one full 55-gallon sealed drum of unknown liquid substance, one concrete block, one farm equipment piece, metal fencing, and one exposed pipe. Noted observations on the adjacent property to the west include one pump house, one truck, one trailer, one propane tank, and two exposed pipes. EMR returned to the site in April, 2005 to conduct the further investigation. Improvements that are noted above still remained. The 55 gallon drum was profiled as oil and

**DATE STAMP**

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water in March, 2005 and was properly disposed of by Hazardous Waste Management of Waukeg, IA. The waste profile and the manifest for disposal are attached.

Evaluation of shallow subsurface soils was conducted utilizing a Geoprobe hydraulic sampler. Three borings were drilled on the south side of the subject parcel. Depths of the soil borings ranged from 12 feet to 16 feet below ground surface (bgs). Soil samples were collected continuously during advancement of the Geoprobe. The subsurface soil samples were collected from depths ranging from 4 feet to 12 feet below the ground surface, and were submitted to Keystone laboratory for the detection of Petroleum Hydrocarbons. Boring logs are included as an attachment. Laboratory results did not detect petroleum hydrocarbons above method detection limits. Results for the soil samples are summarized in Table 1.

Three groundwater samples were collected and submitted to the laboratory for the detection of petroleum hydrocarbons. Laboratory results of the groundwater samples did not detect any of the constituents of concern above their respective detection limits. Analytical data sheets are provided as an attachment. Analytical results are summarized in Table 2.

Please feel free to contact Tanya Drake or myself at (763) 277-5200 with any questions or comments.

Sincerely,  
**EMR, Inc.**

A handwritten signature in black ink, appearing to read 'D. Radabaugh', with a long horizontal flourish extending to the right.

David Radabaugh  
Project Scientist

Enclosure

cc. Ms. Judith McDonough, Manager Environmental Remediation, BNSF Railway



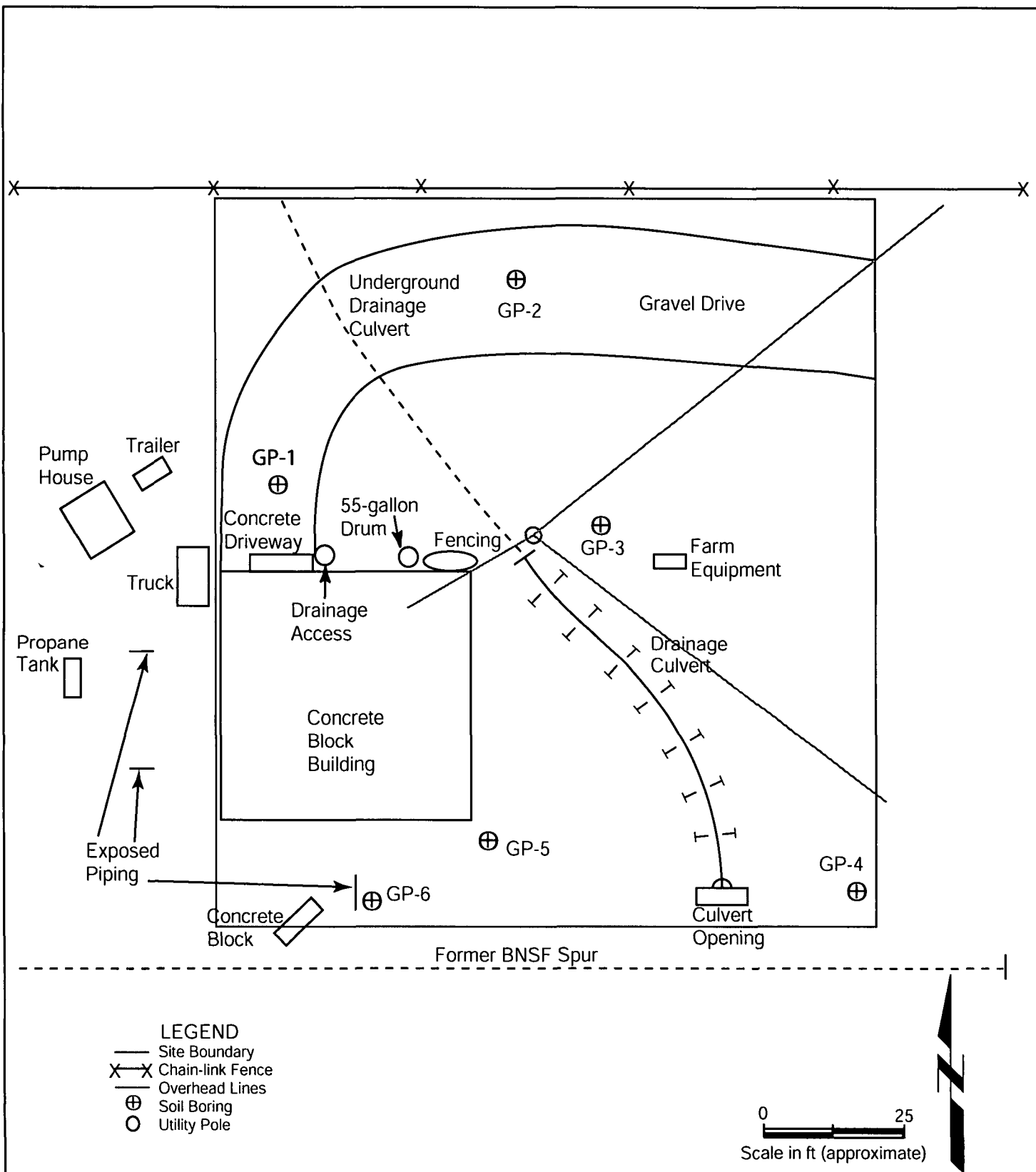


Figure No.  
2

Dwight Glover  
Knoxville, Iowa  
Lease Property No.: 40,580,246

Site Map

DRAWN BY: DKR DATE: 10/21/05  
CHECKED BY: TD REVISION NO.: 1  
PROJECT NO.: REFERENCE:

**EMR**  
INCORPORATED

ENVIRONMENTAL MANAGEMENT RESOURCES

## **Analytical Results Tables**



Table 1: Soil Analytical Results  
Dwight Glover BNSF Lease Property 40,580,246

Soil Boring	Depth (bgs)	Date	Benzene	Toluene	Ethyl benzene	Total Xylenes	MTBE	ETBE	DIPE	TAME	TBA	TEH - Gasoline	TEH - Diesel Fuel	TEH - Waste Oil
GP-4	10'-12'	4/26/2005	<0.025	<0.025	<0.025	<0.051	<0.051	<0.051	<0.051	<0.051	<1.26	<5	<5	<5
GP-5	10'-12'	4/26/2005	<0.025	<0.025	<0.025	<0.050	<0.050	<0.050	<0.050	<0.050	<1.24	<5	<5	<5
GP-6	4'-6'	4/26/2005	<0.026	<0.026	<0.026	<0.052	<0.052	<0.052	<0.052	<0.052	<1.29	<5	<5	<5

Notes:

All Data Reported in milligram per kilogram (mg/kg)

MTBE: Methyl-tert-Butyl Ether

ETBE: Ethyl-tert-Butyl Ether

DIPE: Di-iso-Propyl Ether

TAME: tert-Amyl Methyl Ether

TBA: tert-Butyl Alcohol

Table 2: Groundwater Analytical Results  
Dwight Glover BNSF Lease Property 40,580,246

Monitoring Well	Date	Benzene	Toluene	Ethyl benzene	Total Xylenes	MTBE	ETBE	DIPE	TAME	TBA	TBH - Gasoline	TBH - Diesel Fuel	TBH - Waste Oil
GP-4	4/26/2005	<1	<1	<1	<2	<1	<2	<2	<2	<50	<100	<100	<100
GP-5	4/26/2005	<2	<2	<2	<4	<2	<4	<4	<4	<100	<100	<100	<100
GP-6	4/26/2005	<1	<1	<1	<2	<1	<2	<2	<2	<50	<100	<100	<100
IDNR Groundwater Ingestion Limits (ug/L)		5	1000	700	10000							1200	

Notes:

All Data Reported in micrograms per liter (ug/L)

MTBE: Methyl-tert-Butyl Ether

ETBE: Ethyl-tert-Butyl Ether

DIPE: Di-iso-Propyl Ether

TAME: tert-Amyl Methyl Ether

TBA: tert-Butyl Alcohol

## **Laboratory Results**

Accreditations:  
Iowa DNR: 095  
New Jersey DEP: IA001  
Kansas DHE: E-10287

## ANALYTICAL REPORT

May 09, 2005

Work Order: 15D1183

Page 1 of 3

### Report To

David Radabaugh  
EMR, Inc. - Minneapolis  
5301 E River Rd., Suite 114  
Fridley, MN 55421

### Work Order Information

Date Received: 04/26/2005 2:15PM  
Collector: David Radabaugh  
Phone: (763) 277-5200  
PO Number:

Project: Iowa UST Analysis  
Project Number: Knoxville, IA

Analyte	Result	MRL	Method	Analyst	Analyzed	Qualifier
<b>15D1183-01</b> GP-4 (10-12')			Matrix: Soil		Collected: 04/26/05 09:20	
Methyl-t-butyl Ether (MTBE)	<0.051 mg/kg	0.051	OA-1 (GC/MS)	KRM	05/02/05 22:28	
Benzene	<0.025 mg/kg	0.025	OA-1 (GC/MS)	KRM	05/02/05 22:28	
Toluene	<0.025 mg/kg	0.025	OA-1 (GC/MS)	KRM	05/02/05 22:28	
Ethylbenzene	<0.025 mg/kg	0.025	OA-1 (GC/MS)	KRM	05/02/05 22:28	
Xylenes, total	<0.051 mg/kg	0.051	OA-1 (GC/MS)	KRM	05/02/05 22:28	
Ethyl-tert-Butyl Ether (ETBE)	<0.051 mg/kg	0.051	OA-1 (GC/MS)	KRM	05/02/05 22:28	
Di-iso-Propyl Ether (DIPE)	<0.051 mg/kg	0.051	OA-1 (GC/MS)	KRM	05/02/05 22:28	
tert-Amyl Methyl Ether (TAME)	<0.051 mg/kg	0.051	OA-1 (GC/MS)	KRM	05/02/05 22:28	
tert-Butyl Alcohol (TBA)	<1.26 mg/kg	1.26	OA-1 (GC/MS)	KRM	05/02/05 22:28	
Surrogate: 4-Bromofluorobenzene	99.5 %		64-143	KRM	05/02/05 22:28	
TEH, as gasoline	<5 mg/kg	5	Iowa OA-2	SMG	05/06/05 5:36	
TEH, as #2 diesel fuel	<5 mg/kg	5	Iowa OA-2	SMG	05/06/05 5:36	
TEH, as waste oil	<5 mg/kg	5	Iowa OA-2	SMG	05/06/05 5:36	
Total Extractable Hydrocarbons	<5 mg/kg	5	Iowa OA-2	SMG	05/06/05 5:36	
Surrogate: Pentacosane	82.1 %		60-140	SMG	05/06/05 5:36	
<b>15D1183-02</b> GP-4			Matrix: Water		Collected: 04/26/05 09:46	
Methyl-t-butyl Ether (MTBE)	<1 ug/l	1	OA-1 (GC/MS)	KRM	04/29/05 20:43	
Benzene	<1 ug/l	1	OA-1 (GC/MS)	KRM	04/29/05 20:43	
Toluene	<1 ug/l	1	OA-1 (GC/MS)	KRM	04/29/05 20:43	
Ethylbenzene	<1 ug/l	1	OA-1 (GC/MS)	KRM	04/29/05 20:43	
Xylenes, total	<2 ug/l	2	OA-1 (GC/MS)	KRM	04/29/05 20:43	
Ethyl-tert-Butyl Ether (ETBE)	<2 ug/l	2	OA-1 (GC/MS)	KRM	04/29/05 20:43	
Di-iso-Propyl Ether (DIPE)	<2 ug/l	2	OA-1 (GC/MS)	KRM	04/29/05 20:43	
tert-Amyl Methyl Ether (TAME)	<2 ug/l	2	OA-1 (GC/MS)	KRM	04/29/05 20:43	
tert-Butyl Alcohol (TBA)	<50 ug/l	50	OA-1 (GC/MS)	KRM	04/29/05 20:43	
Surrogate: 4-Bromofluorobenzene	95.8 %		79-118	KRM	04/29/05 20:43	
TEH, as gasoline	<0.1 mg/l	0.1	Iowa OA-2	SMG	04/29/05 17:34	
TEH, as #2 diesel fuel	<0.1 mg/l	0.1	Iowa OA-2	SMG	04/29/05 17:34	
TEH, as waste oil	<0.1 mg/l	0.1	Iowa OA-2	SMG	04/29/05 17:34	
Total Extractable Hydrocarbons	<0.1 mg/l	0.1	Iowa OA-2	SMG	04/29/05 17:34	
Surrogate: Pentacosane	73.5 %		56-138	SMG	04/29/05 17:34	
<b>15D1183-03</b> GP-5 (10-12')			Matrix: Soil		Collected: 04/26/05 10:35	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL = Method Reporting Limit.

EMR, Inc. - Minneapolis  
5301 E River Rd., Suite 114  
Fridley, MN 55421

May 09, 2005

Page 2 of 3

**Work Order: 15D1183**

Analyte	Result	MRL	Method	Analyst	Analyzed	Qualifier
<b>15D1183-03</b> GP-5 (10-12")			Matrix: Soil		Collected: 04/26/05 10:35	
Methyl-t-butyl Ether (MTBE)	<0.050 mg/kg	0.050	OA-1 (GC/MS)	KRM	05/02/05 23:08	
Benzene	<0.025 mg/kg	0.025	OA-1 (GC/MS)	KRM	05/02/05 23:08	
Toluene	<0.025 mg/kg	0.025	OA-1 (GC/MS)	KRM	05/02/05 23:08	
Ethylbenzene	<0.025 mg/kg	0.025	OA-1 (GC/MS)	KRM	05/02/05 23:08	
Xylenes, total	<0.050 mg/kg	0.050	OA-1 (GC/MS)	KRM	05/02/05 23:08	
Ethyl-tert-Butyl Ether (ETBE)	<0.050 mg/kg	0.050	OA-1 (GC/MS)	KRM	05/02/05 23:08	
Di-iso-Propyl Ether (DIPE)	<0.050 mg/kg	0.050	OA-1 (GC/MS)	KRM	05/02/05 23:08	
tert-Amyl Methyl Ether (TAME)	<0.050 mg/kg	0.050	OA-1 (GC/MS)	KRM	05/02/05 23:08	
tert-Butyl Alcohol (TBA)	<1.24 mg/kg	1.24	OA-1 (GC/MS)	KRM	05/02/05 23:08	
Surrogate: 4-Bromofluorobenzene	100 %		64-143	KRM	05/02/05 23:08	
TEH, as gasoline	<5 mg/kg	5	Iowa OA-2	SMG	05/06/05 6:24	
TEH, as #2 diesel fuel	<5 mg/kg	5	Iowa OA-2	SMG	05/06/05 6:24	
TEH, as waste oil	<5 mg/kg	5	Iowa OA-2	SMG	05/06/05 6:24	
Total Extractable Hydrocarbons	<5 mg/kg	5	Iowa OA-2	SMG	05/06/05 6:24	
Surrogate: Pentacosane	78.2 %		60-140	SMG	05/06/05 6:24	
<b>15D1183-04</b> GP-5			Matrix: Water		Collected: 04/26/05 10:50	
Methyl-t-butyl Ether (MTBE)	<2 ug/l	2	OA-1 (GC/MS)	KRM	04/30/05 0:05	
Benzene	<2 ug/l	2	OA-1 (GC/MS)	KRM	04/30/05 0:05	
Toluene	<2 ug/l	2	OA-1 (GC/MS)	KRM	04/30/05 0:05	
Ethylbenzene	<2 ug/l	2	OA-1 (GC/MS)	KRM	04/30/05 0:05	
Xylenes, total	<4 ug/l	4	OA-1 (GC/MS)	KRM	04/30/05 0:05	
Ethyl-tert-Butyl Ether (ETBE)	<4 ug/l	4	OA-1 (GC/MS)	KRM	04/30/05 0:05	
Di-iso-Propyl Ether (DIPE)	<4 ug/l	4	OA-1 (GC/MS)	KRM	04/30/05 0:05	
tert-Amyl Methyl Ether (TAME)	<4 ug/l	4	OA-1 (GC/MS)	KRM	04/30/05 0:05	
tert-Butyl Alcohol (TBA)	<100 ug/l	100	OA-1 (GC/MS)	KRM	04/30/05 0:05	
Surrogate: 4-Bromofluorobenzene	91.0 %		79-118	KRM	04/30/05 0:05	
TEH, as gasoline	<0.1 mg/l	0.1	Iowa OA-2	SMG	04/29/05 18:22	
TEH, as #2 diesel fuel	<0.1 mg/l	0.1	Iowa OA-2	SMG	04/29/05 18:22	
TEH, as waste oil	<0.1 mg/l	0.1	Iowa OA-2	SMG	04/29/05 18:22	
Total Extractable Hydrocarbons	<0.1 mg/l	0.1	Iowa OA-2	SMG	04/29/05 18:22	
Surrogate: Pentacosane	90.2 %		56-138	SMG	04/29/05 18:22	
<b>15D1183-05</b> GP-6 (4-6')			Matrix: Soil		Collected: 04/26/05 11:50	
Methyl-t-butyl Ether (MTBE)	<0.052 mg/kg	0.052	OA-1 (GC/MS)	KRM	05/02/05 23:48	
Benzene	<0.026 mg/kg	0.026	OA-1 (GC/MS)	KRM	05/02/05 23:48	
Toluene	<0.026 mg/kg	0.026	OA-1 (GC/MS)	KRM	05/02/05 23:48	
Ethylbenzene	<0.026 mg/kg	0.026	OA-1 (GC/MS)	KRM	05/02/05 23:48	
Xylenes, total	<0.052 mg/kg	0.052	OA-1 (GC/MS)	KRM	05/02/05 23:48	
Ethyl-tert-Butyl Ether (ETBE)	<0.052 mg/kg	0.052	OA-1 (GC/MS)	KRM	05/02/05 23:48	
Di-iso-Propyl Ether (DIPE)	<0.052 mg/kg	0.052	OA-1 (GC/MS)	KRM	05/02/05 23:48	
tert-Amyl Methyl Ether (TAME)	<0.052 mg/kg	0.052	OA-1 (GC/MS)	KRM	05/02/05 23:48	
tert-Butyl Alcohol (TBA)	<1.29 mg/kg	1.29	OA-1 (GC/MS)	KRM	05/02/05 23:48	

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EMR, Inc. - Minneapolis  
5301 E River Rd., Suite 114  
Fridley, MN 55421

May 09, 2005

Work Order: 15D1183

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Analyte	Result	MRL	Method	Analyst	Analyzed	Qualifier
<b>15D1183-05</b> GP-6 (4-6')			Matrix: Soil		Collected: 04/26/05 11:50	
Surrogate: 4-Bromofluorobenzene	108 %		64-143	KRM	05/02/05 23:48	
TEH, as gasoline	<5 mg/kg	5	Iowa OA-2	SMG	05/06/05 7:12	
TEH, as #2 diesel fuel	<5 mg/kg	5	Iowa OA-2	SMG	05/06/05 7:12	
TEH, as waste oil	<5 mg/kg	5	Iowa OA-2	SMG	05/06/05 7:12	
Total Extractable Hydrocarbons	<5 mg/kg	5	Iowa OA-2	SMG	05/06/05 7:12	
Surrogate: Pentacosane	86.7 %		60-140	SMG	05/06/05 7:12	
<b>15D1183-06</b> GP-6			Matrix: Water		Collected: 04/26/05 12:00	
Methyl-t-butyl Ether (MTBE)	<1 ug/l	1	OA-1 (GC/MS)	KRM	04/29/05 21:23	
Benzene	<1 ug/l	1	OA-1 (GC/MS)	KRM	04/29/05 21:23	
Toluene	<1 ug/l	1	OA-1 (GC/MS)	KRM	04/29/05 21:23	
Ethylbenzene	<1 ug/l	1	OA-1 (GC/MS)	KRM	04/29/05 21:23	
Xylenes, total	<2 ug/l	2	OA-1 (GC/MS)	KRM	04/29/05 21:23	
Ethyl-tert-Butyl Ether (ETBE)	<2 ug/l	2	OA-1 (GC/MS)	KRM	04/29/05 21:23	
Di-iso-Propyl Ether (DIPE)	<2 ug/l	2	OA-1 (GC/MS)	KRM	04/29/05 21:23	
tert-Amyl Methyl Ether (TAME)	<2 ug/l	2	OA-1 (GC/MS)	KRM	04/29/05 21:23	
tert-Butyl Alcohol (TBA)	<50 ug/l	50	OA-1 (GC/MS)	KRM	04/29/05 21:23	
Surrogate: 4-Bromofluorobenzene	94.2 %		79-118	KRM	04/29/05 21:23	
TEH, as gasoline	<0.1 mg/l	0.1	Iowa OA-2	SMG	04/29/05 0:40	
TEH, as #2 diesel fuel	<0.1 mg/l	0.1	Iowa OA-2	SMG	04/29/05 0:40	
TEH, as waste oil	<0.1 mg/l	0.1	Iowa OA-2	SMG	04/29/05 0:40	
Total Extractable Hydrocarbons	<0.1 mg/l	0.1	Iowa OA-2	SMG	04/29/05 0:40	
Surrogate: Pentacosane	84.7 %		56-138	SMG	04/29/05 0:40	

End of Report

*Kathy Van Zee*

Keystone Laboratories, Inc.

Kathy Van Zee  
Project Manager

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# CHAIN OF CUSTODY RECORD

**Keystone**  
LABORATORIES, INC.

☒ 600 E. 17<sup>th</sup> St. S.  
Newton, IA 50208  
Phone: 641-792-8451  
Fax: 641-792-7989

☐ 3012 Ansbrough Ave.  
Waterloo, IA 50701  
Phone: 319-235-4440  
Fax: 319-235-2480  
www.keystonelabs.com

☐ 1304 Adams  
Kansas City, KS 66103  
Phone: 913-321-7856  
Fax: 913-321-7937

PAGE 1 OF 1

PRINT OR TYPE INFORMATION BELOW

SAMPLER: David Radabaugh  
SITE NAME: Knoxville  
ADDRESS: \_\_\_\_\_  
CITY/ST/ZIP: Knoxville  
PHONE: 763.277.5200

REPORT TO:

NAME: David Radabaugh  
COMPANY NAME: EMR, Inc.  
ADDRESS: 5301 East River Rd.  
CITY/ST/ZIP: Fridley, MN 55421  
PHONE: ~~763.422.2844~~ 763.277.5200  
FAX: 763.277.5201

BILL TO:

NAME: David Radabaugh  
COMPANY NAME: EMR, Inc.  
ADDRESS: 5301 East River Rd.  
CITY/ST/ZIP: ~~Knoxville~~ Fridley, MN 55421  
PHONE: 763.277.5200

Keystone Quote No.: \_\_\_\_\_  
(If Applicable)

CLIENT SAMPLE NUMBER	DATE	TIME	SAMPLE LOCATION	NO. OF CONTAINERS	MATRIX	GRAB/COMPOSITE	ANALYSES REQUIRED										LAB USE ONLY	
							OA-1	GCMS									LABORATORY WORK ORDER NO.	LABORATORY SAMPLE NUMBER
GP-4 -(10'-12')	4/26/05	928	10'-12'	2	Soil		X	X									15D1183	01
GP-4	4/26/05	946		4	H <sub>2</sub> O		X	X										02
GP-5 (10'-12')		1035	10'-12'	2	Soil		X	X										03
GP-5		1050		4	H <sub>2</sub> O		X	X										04
GP-6 - (4'-6')		1150	4'-6'	2	Soil		X	X										05
GP-6		1200		4	H <sub>2</sub> O		X	X										06
MS		948		1	H <sub>2</sub> O			X										
MSD		948		1	H <sub>2</sub> O			X										

Relinquished by: (Signature)	Date	Received by: (Signature)	Date	Turn-Around:
	Time		Time	<input type="checkbox"/> Standard <input type="checkbox"/> Rush
				Contact Lab Prior to Submission
Relinquished by: (Signature)	Date	Received for Lab by: (Signature)	Date	Remarks:
<u>David Radabaugh</u>	<u>4/26/05</u>	<u>KNO</u>	<u>4/26/05</u>	
	Time		Time	
	<u>1415</u>		<u>2:15</u>	

## **Drum Disposal Documents**





Onyx Environmental Services, L.L.C.  
W124 N9151 Boundary Road  
Menomonee Falls, WI 53051  
Telephone: (800) 255-5092  
Fax: (262) 255-7990

# WASTE PROFILE

Hazardous Waste Management, Inc.  
P.O. Box 159 - Waukeg, IA 50263  
515-986-4800 - Office  
515-240-1778 - Cell

Profile#

Approval Code

1. GENERATOR NAME: BNSF Generator USEPA ID: MND000826248  
2. Generator Address: 80-44th Ave NE Billing Address: ☐ Hazardous Waste Management Inc.  
Minneapolis, MN 55421 P.O. Box 159 - Waukeg, IA 50263  
3. Technical Contact Phone: 515-240-1778 Billing Contact Phone: 515-986-4800  
4. Technical Contact Fax: 515-986-4999 Billing Contact Fax: 515-986-4999  
Contact Name: Kenny Davenport Contact Name: Gary Chase

Technology Requested: \_\_\_\_\_ TSDF Requested: \_\_\_\_\_ ☐ Check here if this is a re-certification

## PROPERTIES AND COMPOSITION

5. A. Process Generating Waste: MAINTENANCE ACTIVITIES  
B. Is the waste from a CERCLA or state mandated cleanup? Yes ☐ No ☒ Location Name: \_\_\_\_\_  
6. Waste Name: Oil/Water  
7. A. Is it a USEPA hazardous waste (40 CFR Part 261)? Yes ☐ No ☒  
B. If I 001, D002, D004-D043 do any underlying hazardous constituents (UHC's) apply? Yes ☐ No ☒ (If yes attach UHC form)  
C. Does this waste contain debris (List size and type in chemical composition)? Yes ☐ No ☒  
D. Identify ALL USEPA listed and characteristic waste code numbers (D,F,K,P,U): NR  
8. Physical State @ 70°F: A. Solid ☐ Liquid ☐ Both ☐ Gas ☐ B. Single Layer ☐ Multi-layer ☒ C. Free Liquid Range: 20 to 100%  
9. A. pH Range: 4 to 10 or Not Applicable ☐ B. Strong Odor ☐ Describe: \_\_\_\_\_ C. Color: B/K  
10. Liquid Flash Point: ☐ <73°F ☐ 73-99°F ☐ 100-139°F ☐ 140-199°F ☐ ≥200°F ☐ N/A ☐  
11. Chemical Composition: List ALL constituents (including halogenated organics and UHC's) present in any concentration and forward available analysis  
Constituents Range Units Constituents Range Units  
Water 50-100 0%  
Motor Oil 50-100 0%  
Water is Frozen

## TOTAL COMPOSITION MUST EQUAL OR EXCEED 100%

12. Other: PCB's if yes, Concentration \_\_\_\_\_ ppm PCB's regulated by 40 CFR 761 ☐ Pyrophoric ☐ Explosive ☐ Radioactive ☐  
Water Reactive ☐ Shock Sensitive ☐ Oxidizer ☐ Carcinogen ☐ Infectious ☐ Other: \_\_\_\_\_  
13. If Benzene, Concentration \_\_\_\_\_ ppm Is the waste subject to the Benzene Waste Operations NESHAP? Yes ☐ No ☒ Unknown ☐  
14. Is the waste subject to RCRA subpart CC control? Yes ☐ No ☒ Volatile Organic Concentration, if known \_\_\_\_\_ ppmv  
15. If waste is subject to the land ban and meets the treatment standards, check here: ☒ and supply analytical results where applicable.  
16. Is the wastestream being imported into the USA? Yes ☐ No ☒  
17. Is the wastestream subject to the Marine Pollutant Regulations? Yes ☐ No ☒  
18. Is the wastestream subject to Hazardous Organics NESHAP notification requirements? Yes ☐ No ☒

## SHIPPING INFORMATION

19. Packaging: Bulk Solid ☐ Type/Size: \_\_\_\_\_ Bulk Liquid ☒ Type/Size: 55 gal Drum ☐ Type/Size: \_\_\_\_\_ Other: \_\_\_\_\_  
20. Shipping Frequency: Units \_\_\_\_\_ Per Month ☐ Quarter ☐ Year ☐ One Time ☒ Other: \_\_\_\_\_  
21. Shipping Name: \_\_\_\_\_  
22. Hazardous Class: \_\_\_\_\_ UN/NA #: \_\_\_\_\_ PG: \_\_\_\_\_ RQ Amount \_\_\_\_\_ Msk

## SAMPLING INFORMATION

23. A. Sample Source (drum, lagoon, pond, tank, vat, etc.): \_\_\_\_\_  
Date Sampled: \_\_\_\_\_ Sampler's Name/Company: \_\_\_\_\_  
23. B. Generator's Agent Supervising Sampling: \_\_\_\_\_

## GENERATOR'S CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261-Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize Onyx Environmental Services to obtain a sample from any waste shipment for purposes of re-certification. If this certification is made by a broker, the undersigned signs as authorized agent of the generator and has confirmed the information contained in this Waste Profile from information provided by the generator and additional information as it has determined to be reasonably necessary.

Signature: [Signature] As Agent for BNSF Printed (or typed) Name and Title: John Giebenhain, Project Tech Date: 1/18/2005

If the waste is approved, Onyx Environmental Services has the appropriate permits and will accept the waste pursuant to our agreement.



# ENVIRONMENTAL SERVICES

Case type or print in block letters. (Form designed for use on 12-pitch typewriter.)

<b>SPECIAL WASTE MANIFEST TICKET</b>		Generator's US EPA ID No. NJ 0080631309		Manifest Document No. 01501013		2. Page 1 of 1	
3. Generator's Name and Mailing Address BNSF 80 44TH AVENUE NORTHEAST MINNEAPOLIS, MN 55421				Site: S.W. of Intersection N. 10th St. & W. Rock Island St, Knoxville, TN 37138		A. Manifest Document Number Y 0058492	
4. Generator's Phone T85 277-5200				B. State Generator ID 50138		SAME	
5. Transporter 1 Company Name ONYX ENVIRONMENTAL SVCS LLC		6. US EPA ID Number NJ 0080631309		C. State Trans ID 13000		D. Transporter's Phone 973 347-7111	
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Trans ID		F. Transporter's Phone	
9. Designated Facility Name and Site Address ONYX ENVIRONMENTAL SERVICES W124 N2451 BOUNDARY RD MENOMONEE FALLS, WI 53051		10. US EPA ID Number WI 0003927148		G. State Facility ID 03002		H. Facility's Phone 262 256-8855	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) OIL AND WATER MIXTURE, NONE/NONE				12. Containers No. Type 001 DM 00055		13. Total Quantity G	
						14. Unit: Wt/Vol Waste No. N O N E	
15. Additional Descriptions for Materials Listed Above SPR OIL & WATER				K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information Third party customer transported by WI Tch Svcs EMERGENCY NUMBER: INFO TRAC 1-800-635-6063 WORK ORDER NUMBER 0531060000 Generator has signed manifest prior to pick up as noted by different dates.							
6. GENERATOR'S CERTIFICATION: I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.							
Printed/Typed Name John Giebenbain		Signature <i>[Signature]</i>		As agent for BNSF		Month Day Year 10/12/05	
Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Janet Z...		Signature <i>[Signature]</i>				Month Day Year 05/14/05	
Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature				Month Day Year	
F. Discrepancy Indication Space							
i. Facility Owner or Operator: Certification of receipt of materials covered by this manifest except as noted in item 19. Printed/Typed Name ROBERT L. KANN JR.							
		Signature <i>[Signature]</i>				Month Day Year 03/28/05	

SIGNATURE AND INFORMATION MUST BE LEGIBLE ON ALL COPIES

1-TSDF COPY

## **Boring Logs**

Depth (ft)	Sample Interval	Sample Recovery	Evacuation Rate	Groundwater	PID/FID Readings	Blow Count (per/ft)	Graphic Log	USCS Classification	Soil Classification/ Description		
0	0-1	1'		▽	1			OL	Black Organic		
1											
2	1-4	3'						2	2	CL	Silty Clay, 10YR 4/4, med. Density, Fe staining
3											
4	4-6	2'						2	CL	Same, higher Fe staining content	
5											
6	6-8	2'						2	CH	Silty Clay, 10YR 5/1, high plasticity,soft, trace sand content (6.5-7.0 Fe Staining <70)	
7											
8	8-10	2'						2.2	CH	Same, 10YR 4/2, becoming stiff, moist	
9											
10	10-12	2'						2.8	CH	Same, very stiff, moist to wet	
11											

Depth (ft)	Sample Interval	Sample Recovery	Evacuation Rate	Groundwater	PID/FID Readings	Blow Count (per/ft)	Graphic Log	USCS Classification	Soil Classification/ Description																				
0	0-2	2'						OL	Black Organic Top Soil																				
1																													
2	2-4	2'										CH	Silty Clay, Black, high plasticity, soft, organics and small gravels																
3																													
4	4-6	2'														CH	Same, 10YR 2/1, Stiff, Fe staining												
5																													
6	6-8	2'																		CH	Same, becoming moist								
7																													
8	8-10	2'																						CH	Same				
9																													
10	10-12	2'																										CH	Same, wet
11																													

Depth (ft)	Sample Interval	Sample Recovery	Evacuation Rate	Groundwater	PID/FID Readings	Blow Count (per/ft)	Graphic Log	USCS Classification	Soil Classification/ Description
0	0-1	1'		▽	1.4			OL	Black Organic
1									
2	1-4	3'			3.8			CL	Silty Clay, 10YR 4/4, med. Density, Fe staining
3									
4	4-6	2'			4.4			CL	Same, higher Fe staining content
5									
6	6-8	2'			2.0			CH	Silty Clay, 10YR 5/1, high plasticity,soft, trace sand content (6.5-7.0 Fe Staining <70)
7									
8	8-10	2'			3.2			CH	Same, 10YR 4/2, becoming stiff, moist
9									
10	10-12	2'			3.6			CH	Same, very stiff, moist to wet
11									

Depth (ft)	Sample Interval	Sample Recovery	Evacuation Rate	Ground water	PID/FID Readings	GC Reading	Graphic Log	USCS Classification	Soil Classification/ Description	
12	12-14	2'			2.8			CH	Firm, Gley 1 4/N fat clay with few 10YR 4/4 mottles. Moist to wet.	
13										
14	14-16	2'			3.4			CH		Soft, Gley 1 4/N fat clay, moist to wet.
15										
16									End Boring at 16'	
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										