

Endpoint Solutions

12065 West Janesville Road, Suite 300
Hales Corners, WI 53130
Telephone: (414) 427-1200
Fax: (414) 427-1259
www.endpointcorporation.com

Mr. Scott Ferguson
Wisconsin Department of Natural Resources
2300 N. Dr. Martin Luther King Jr. Drive
Milwaukee, WI 53212

September 19, 2011

Subject: **Preliminary Soil Sampling Results from Underground Pipe Release Area
U.S. Oil Milwaukee South Terminal
9135 North 107th Street – Milwaukee, Wisconsin**

Dear Mr. Ferguson:

The purpose of this letter report is to document the soil sampling activities performed at the U.S. Oil Milwaukee South Terminal (“Site”) in response to a release from an underground line near the manifold area in July 2011.

Background Information

The Site is an active petroleum terminal facility owned and operated by U.S. Oil (a division of U.S. Venture, Inc.) and is located at 9135 North 107th Street in Milwaukee, Wisconsin (refer to *Figure 1: Site Location Map* in Exhibit A). Based on information obtained from site personnel, in July 2011, an underground pipe leak was discovered during routine inspection activities. Details of the release, as well as response activities taken, were summarized in a letter from Mr. Don Johnston of U.S. Venture to Mr. Scott Ferguson of the WDNR (refer to *August 1, 2011 Letter* in Exhibit B).

Following repairs to the area of the pipe where the release was discovered, Endpoint Solutions Corp. (Endpoint) was retained by U.S. Venture to perform an inspection of the pipe and the manifold area, and to coordinate a tightness testing program of the entire pipe in question by a third-party contractor. The subsequent tightness testing indicated that the repaired pipe has no leaks.

Summary of Soil Sampling Activities

U.S. Venture retained Endpoint to determine the extent of subsurface contamination caused by the pipe leak. On August 22, 2011, Endpoint collected six (6) soil samples from the walls and floor of the existing excavation in the manifold area (refer to *Site Photographs* in Exhibit C). Soil vapor readings and observations indicated that subsurface contamination was present and extended beyond the limits of the excavated area. To document soil conditions at the suspected source area and for waste characterization analysis (for disposal of excavated materials), one of the collected soil samples was submitted for analytical testing. The analytical test results of the soil samples collected are summarized on the next page. *Analytical Test Reports* are included in Exhibit D.

Analytical Test Result Summary	
Parameter	Sample S-1
Gasoline Range Organics (mg/kg)	3,200
Diesel Range Organics (mg/kg)	306
Benzene ($\mu\text{g}/\text{kg}$)	8,400
Ethylbenzene ($\mu\text{g}/\text{kg}$)	49,000
Toluene ($\mu\text{g}/\text{kg}$)	14,800
Xylenes ($\mu\text{g}/\text{kg}$)	275,200
Naphthalene ($\mu\text{g}/\text{kg}$)	56,000

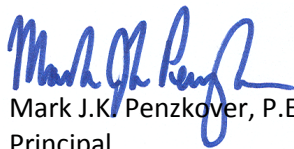
Conclusions and Recommendations


Field observations and analytical testing indicate that shallow subsurface petroleum contamination exceeding NR 720 Residual Contaminant Levels (RCLs) and NR 746 Direct Contact Concentrations is present in the vicinity of the piping manifold area at the Site. It is important to note that this area is within a previously documented impacted area, which was granted regulatory closure. Due to the presence of additional underground piping and other physical obstructions in the immediate area of the release, Endpoint recommends that no further excavation be performed until the extent of the subsurface contamination has been determined. Endpoint also recommends that the excavated area be backfilled.

Furthermore, we recommend that a limited subsurface investigation be conducted in the vicinity of the piping manifold area to determine the extent and nature of the subsurface impacts of this release. This investigation will consist of soil borings and the installation of groundwater monitoring wells. Following the completion of the proposed investigation, a remedial plan will be developed to address remaining subsurface contamination, if warranted or applicable.

We trust this letter report provides all the relevant data associated with the July 2011 underground piping release. If you have any questions or require additional information, please contact us immediately.

Sincerely,
Endpoint Solutions


Mark J.K. Penzkover, P.E.
Principal

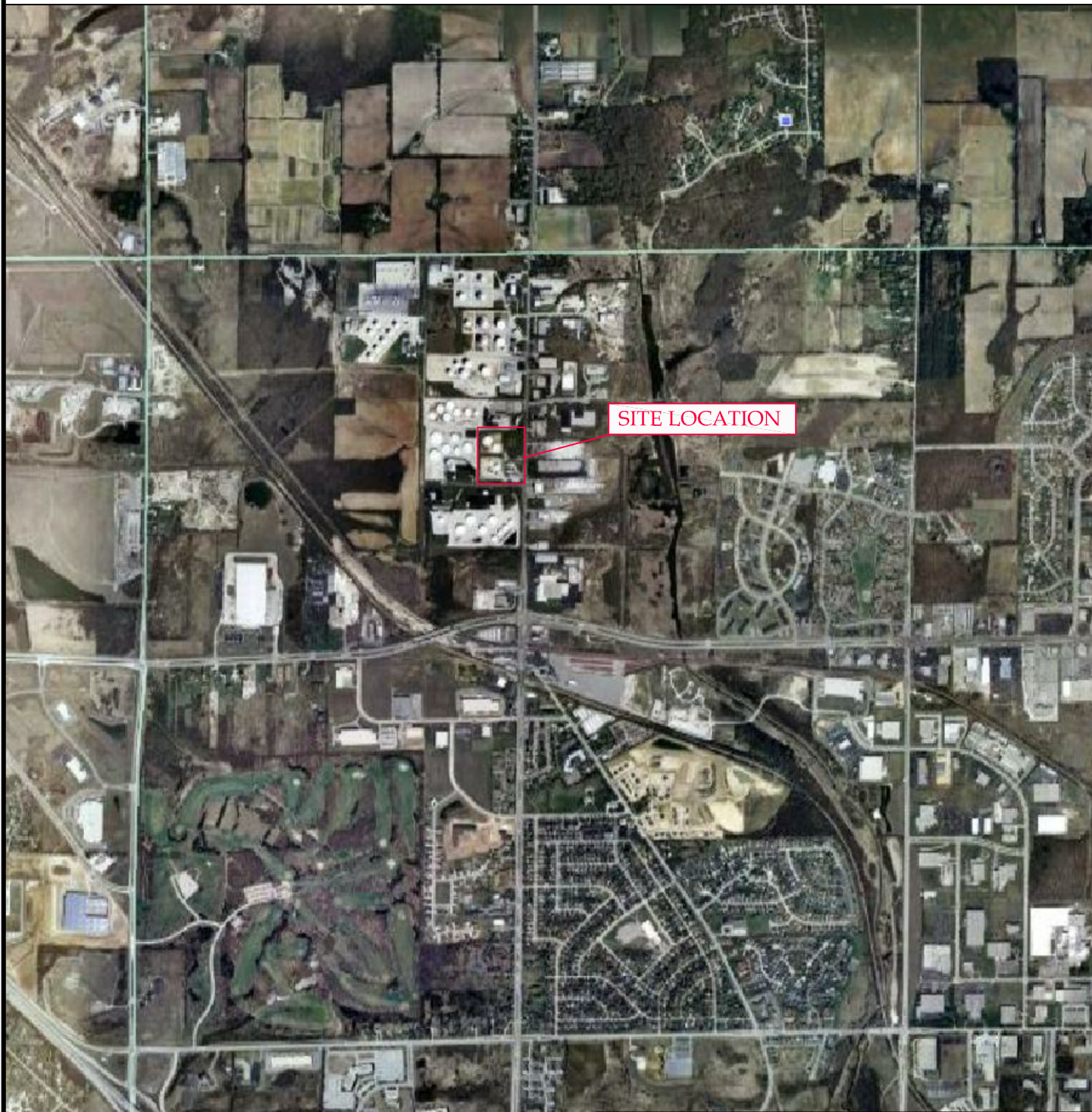

Robert A. Cigale, P.G.
Principal

cc: Mr. Don Johnston, Manager, Environmental Quality (U.S. Venture, Inc.)

Exhibit A

Figure

Endpoint Solutions



NOTE: IMAGE TAKEN FROM GOOGLE EARTH

SCALE: 1"=2000'



SITE LOCATION MAP

U.S. OIL CO., INC.
MILWAUKEE SOUTH TERMINAL

Endpoint Solutions

12065 West Janesville Road
Hales Corners, WI 53130

Phone: (414) 427-1200

Fax: (414) 427-1259

DRAWN BY: DJK

DATE: 1 / 18 / 2010

014-002-003

REVIEWED BY: M.P.

DWG: MLW-1017

FIGURE 1

Exhibit B

**August 1, 2011 Letter from
U.S. Venture to WDNR**

Endpoint Solutions



Finding a better way™

CERTIFIED MAIL
Return Receipt Requested
7007 0220 0003 2022 1202

August 1, 2011

Mr. Scott Ferguson
WI Dept. Of Natural Resources
Southeast Region Office
2300 N. Dr. Martin Luther King Jr. Drive
Milwaukee, WI 53212-0436

Subject: U.S. Oil Milwaukee South Terminal
9135 N. 107th Street, Milwaukee WI 53224-1508
Notification of Release

Dear Mr. Ferguson:

The purpose of this letter is to provide details of a lease of gasoline from an underground line at the U.S. Oil Milwaukee South Terminal. U.S. Oil suspected a problem when gasoline was found in a pipe near the manifold area at the terminal. A 4-inch diameter pipe, open at the surface, lead down vertically into the ground and provided access to a valve.

Terminal personnel took the following actions to determine if a leak existed. The suspected line was blanked off from the aboveground storage tank which feed the line and the line was drained. An excavator was brought in on June 22nd and a hole was dug around the 10-inch tank line. A small 1-inch line, coming off of the 10-inch line was found to be cracked. The 1-inch line and valve where removed and the opening into the 10-inch line was plugged.

U.S. Venture has hired Endpoint Solutions to determine the extent of any contamination caused by the cracked pipe. Our plan is to excavate further around the manifold area to insure that no other buried fittings are compromised then have Endpoint sample the excavation base and sidewalls. If Endpoint's sampling shows the need, a full assessment of the manifold area will be performed.

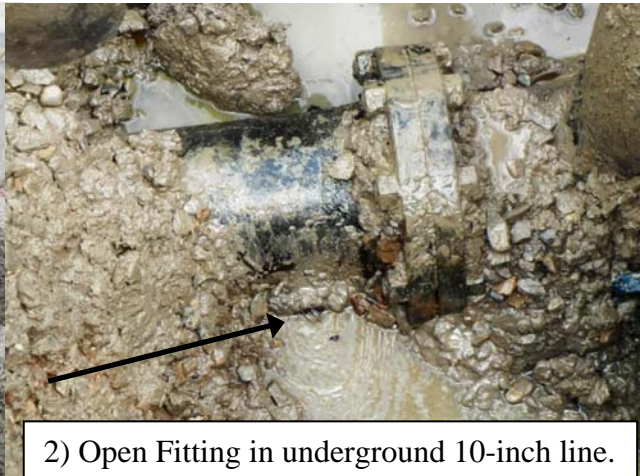
On the next page are pictures of 1) the excavation, 2) the opening in the 10-inch line (while uncapped), 3) the 1-inch line and 4) valve and the 4-inch vertical pipe – showing how it “sleeved” over the 1-inch line valve.

Please contact me at (920) 735-8228 or djohnston@usventure.com if you have any questions about the release at the U.S. Oil Milwaukee South Terminal.





1) Excavation at Manifold



2) Open Fitting in underground 10-inch line.



3) 1-inch pipe & valve that was connected to 10-inch line underground



4) 4-inch pipe "sleeved" over 1-inch line valve.

Regards,

Don Johnston, CHMM
Manager, Environmental Quality

Cc: R. Gibowski
M. Penzkover – Endpoint Solutions - 12065 West Janesville Road, Suite 300, Hales Corners, WI 53130-2368

Exhibit C

Site Photographs

Endpoint Solutions





Exhibit D

Analytical Test Reports

Endpoint Solutions

Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

MARK PENZKOVER
ENDPOINT SOLUTIONS LLC
12065 WEST JANESVILLE ROAD
HALES CORNERS, WI 53130

Report Date 07-Sep-11

Project Name MILWAUKEE S. TERMINAL
Project # 014-002-008

Invoice # E22701

Lab Code 5022701A
Sample ID S-1
Sample Matrix soil
Sample Date 8/22/2011

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.4	%			1	5021		8/30/2011	MDK	1
Inorganic										
Metals										
Lead, Total	5.2	mg/Kg	0.3	0.96	1	6010B		9/6/2011	CWT	1
Organic										
General										
Diesel Range Organics	306	mg/kg	0.81	2.6	1	DRO95		8/31/2011	MJR	1
Gasoline Range Organics	3200	mg/kg	28	88	10	GRO95/8021		8/30/2011	CJR	1
PAH SIM										
Acenaphthene	1850	ug/kg	194	616	20	M8270D	8/29/2011	8/30/2011	MDK	1
Acenaphthylene	580	ug/kg	168	536	20	M8270D	8/29/2011	8/30/2011	MDK	1
Anthracene	800	ug/kg	204	648	20	M8270D	8/29/2011	8/30/2011	MDK	1
Benzo(a)anthracene	440 "J"	ug/kg	292	932	20	M8270D	8/29/2011	8/30/2011	MDK	1
Benzo(a)pyrene	< 332	ug/kg	332	1056	20	M8270D	8/29/2011	8/30/2011	MDK	1
Benzo(b)fluoranthene	< 334	ug/kg	334	1064	20	M8270D	8/29/2011	8/30/2011	MDK	1
Benzo(g,h,i)perylene	< 164	ug/kg	164	518	20	M8270D	8/29/2011	8/30/2011	MDK	1
Benzo(k)fluoranthene	< 322	ug/kg	322	1028	20	M8270D	8/29/2011	8/30/2011	MDK	1
Chrysene	350 "J"	ug/kg	184	586	20	M8270D	8/29/2011	8/30/2011	MDK	1
Dibenzo(a,h)anthracene	< 210	ug/kg	210	670	20	M8270D	8/29/2011	8/30/2011	MDK	1
Fluoranthene	900	ug/kg	196	626	20	M8270D	8/29/2011	8/30/2011	MDK	1
Fluorene	4200	ug/kg	214	678	20	M8270D	8/29/2011	8/30/2011	MDK	1
Indeno(1,2,3-cd)pyrene	< 190	ug/kg	190	604	20	M8270D	8/29/2011	8/30/2011	MDK	1
1-Methyl naphthalene	46000	ug/kg	358	1138	20	M8270D	8/29/2011	8/30/2011	MDK	1
2-Methyl naphthalene	85000	ug/kg	192	608	20	M8270D	8/29/2011	8/30/2011	MDK	1
Naphthalene	34000	ug/kg	216	690	20	M8270D	8/29/2011	8/30/2011	MDK	1
Phenanthrene	8300	ug/kg	196	622	20	M8270D	8/29/2011	8/30/2011	MDK	1
Pyrene	1430	ug/kg	190	606	20	M8270D	8/29/2011	8/30/2011	MDK	1

Project Name MILWAUKEE S. TERMINAL
Project # 014-002-008

Invoice # E22701

Lab Code 5022701A
Sample ID S-1
Sample Matrix soil
Sample Date 8/22/2011

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
VOC's										
Benzene	8400	ug/kg	445	1400	50	8260B		8/31/2011	CJR	1
Bromobenzene	< 700	ug/kg	700	2150	50	8260B		8/31/2011	CJR	1
Bromodichloromethane	< 600	ug/kg	600	1850	50	8260B		8/31/2011	CJR	1
Bromoform	< 1000	ug/kg	1000	3100	50	8260B		8/31/2011	CJR	1
tert-Butylbenzene	< 2700	ug/kg	2700	8650	50	8260B		8/31/2011	CJR	1
sec-Butylbenzene	8500	ug/kg	2550	8100	50	8260B		8/31/2011	CJR	1
n-Butylbenzene	29200	ug/kg	2400	7600	50	8260B		8/31/2011	CJR	1
Carbon Tetrachloride	< 600	ug/kg	600	1950	50	8260B		8/31/2011	CJR	1
Chlorobenzene	< 470	ug/kg	470	1500	50	8260B		8/31/2011	CJR	1
Chloroethane	< 7100	ug/kg	7100	22600	50	8260B		8/31/2011	CJR	1
Chloroform	< 2300	ug/kg	2300	7300	50	8260B		8/31/2011	CJR	1
Chloromethane	< 10350	ug/kg	10350	32900	50	8260B		8/31/2011	CJR	1
2-Chlorotoluene	< 4200	ug/kg	4200	13350	50	8260B		8/31/2011	CJR	1
4-Chlorotoluene	< 3800	ug/kg	3800	12050	50	8260B		8/31/2011	CJR	1
1,2-Dibromo-3-chloropropane	< 3850	ug/kg	3850	12250	50	8260B		8/31/2011	CJR	1
Dibromochloromethane	< 475	ug/kg	475	1500	50	8260B		8/31/2011	CJR	1
1,4-Dichlorobenzene	< 2600	ug/kg	2600	8350	50	8260B		8/31/2011	CJR	1
1,3-Dichlorobenzene	< 2650	ug/kg	2650	8500	50	8260B		8/31/2011	CJR	1
1,2-Dichlorobenzene	< 2550	ug/kg	2550	8200	50	8260B		8/31/2011	CJR	1
Dichlorodifluoromethane	< 600	ug/kg	600	1850	50	8260B		8/31/2011	CJR	1
1,2-Dichloroethane	< 650	ug/kg	650	2100	50	8260B		8/31/2011	CJR	1
1,1-Dichloroethane	< 550	ug/kg	550	1650	50	8260B		8/31/2011	CJR	1
1,1-Dichloroethene	< 1100	ug/kg	1100	3450	50	8260B		8/31/2011	CJR	1
cis-1,2-Dichloroethene	< 700	ug/kg	700	2200	50	8260B		8/31/2011	CJR	1
trans-1,2-Dichloroethene	< 1100	ug/kg	1100	3450	50	8260B		8/31/2011	CJR	1
1,2-Dichloropropane	< 550	ug/kg	550	1800	50	8260B		8/31/2011	CJR	1
2,2-Dichloropropane	< 1650	ug/kg	1650	5200	50	8260B		8/31/2011	CJR	1
1,3-Dichloropropane	< 550	ug/kg	550	1750	50	8260B		8/31/2011	CJR	1
Di-isopropyl ether	< 2350	ug/kg	2350	7400	50	8260B		8/31/2011	CJR	1
EDB (1,2-Dibromoethane)	< 850	ug/kg	850	2700	50	8260B		8/31/2011	CJR	1
Ethylbenzene	49000	ug/kg	2750	8750	50	8260B		8/31/2011	CJR	1
Hexachlorobutadiene	< 4750	ug/kg	4750	15150	50	8260B		8/31/2011	CJR	1
Isopropylbenzene	7700 "J"	ug/kg	2650	8400	50	8260B		8/31/2011	CJR	1
p-Isopropyltoluene	5500 "J"	ug/kg	2250	7150	50	8260B		8/31/2011	CJR	1
Methylene chloride	< 5950	ug/kg	5950	19000	50	8260B		8/31/2011	CJR	1
Methyl tert-butyl ether (MTBE)	< 600	ug/kg	600	1900	50	8260B		8/31/2011	CJR	1
Naphthalene	56000	ug/kg	5350	17000	50	8260B		8/31/2011	CJR	1
n-Propylbenzene	25500	ug/kg	2650	8450	50	8260B		8/31/2011	CJR	1
1,1,2,2-Tetrachloroethane	< 1000	ug/kg	1000	3200	50	8260B		8/31/2011	CJR	1
1,1,1,2-Tetrachloroethane	< 2050	ug/kg	2050	6600	50	8260B		8/31/2011	CJR	1
Tetrachloroethene	< 1200	ug/kg	1200	3900	50	8260B		8/31/2011	CJR	1
Toluene	14800	ug/kg	2500	7950	50	8260B		8/31/2011	CJR	1
1,2,4-Trichlorobenzene	< 3700	ug/kg	3700	11850	50	8260B		8/31/2011	CJR	1
1,2,3-Trichlorobenzene	< 6450	ug/kg	6450	20450	50	8260B		8/31/2011	CJR	1
1,1,1-Trichloroethane	< 550	ug/kg	550	1700	50	8260B		8/31/2011	CJR	1
1,1,2-Trichloroethane	< 800	ug/kg	800	2600	50	8260B		8/31/2011	CJR	1
Trichloroethene (TCE)	< 850	ug/kg	850	2650	50	8260B		8/31/2011	CJR	1
Trichlorofluoromethane	< 2150	ug/kg	2150	6850	50	8260B		8/31/2011	CJR	1
1,2,4-Trimethylbenzene	239000	ug/kg	4000	12650	50	8260B		8/31/2011	CJR	1
1,3,5-Trimethylbenzene	72000	ug/kg	2400	7550	50	8260B		8/31/2011	CJR	1
Vinyl Chloride	< 800	ug/kg	800	2450	50	8260B		8/31/2011	CJR	1

Project Name MILWAUKEE S. TERMINAL
Project # 014-002-008

Invoice # E22701

Lab Code 5022701A
Sample ID S-1
Sample Matrix soil
Sample Date 8/22/2011

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
m&p-Xylene	262000	ug/kg	4300	13700	50	8260B		8/31/2011	CJR	1
o-Xylene	13200	ug/kg	2500	7950	50	8260B		8/31/2011	CJR	1
SUR - Toluene-d8	113	Rec %			50	8260B		8/31/2011	CJR	1
SUR - 1,2-Dichloroethane-d4	115	Rec %			50	8260B		8/31/2011	CJR	1
SUR - 4-Bromofluorobenzene	106	Rec %			50	8260B		8/31/2011	CJR	1
SUR - Dibromofluoromethane	98	Rec %			50	8260B		8/31/2011	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

Code *Comment*

1 Laboratory QC within limits.

CWT denotes sub contract lab - Certification #445126660

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

Michael J. Ricker

CHAIN OF CUSTODY RECORD



Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Sample Handling Request
Rush Analysis Date Required _____
(Rushes accepted only with prior authorization)
 Normal Turn Around

Lab I.D. #

Account No. :

Quote No.:

Project #:

014-902-0088

Sampler: (signature)

Mark [Signature]

Project (Name / Location): **MILWAUKEE SOUTH TANKAGE - MANHOLE RELEASE**

Reports To: **MARK PATKORVEL**

Invoice To:

Company: **ENDPOINT SOLUTIONS**

Company

Address

Address

City State Zip

City State Zip

Phone

Phone

FAX

FAX

Analysis Requested

Other Analysis

- DRO (Mod DRO Sep 95)
- GRO (Mod GRO Sep 95)
- IRON
- LEAD
- NITRATE / NITRITE
- PAH (EPA 8270)
- PVOC (EPA 8021)
- PVOC + NAPHTHALENE
- SULFATE
- VOC DW (EPA 524.2)
- VOC (EPA 8260)
- 8-RCRA METALS

Lab I.D.	Sample I.D.	Collection Date Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	PID/ FID
5027301A	S-1	9/22/11 4:00		X		4	SOIL	MeTH	

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Sample Integrity - To be completed by receiving lab.
Method of Shipment: **Overnight**
Temp. of Temp. Blank: _____ °C On Ice:
Cooler seal intact upon receipt: Yes No

Relinquished By: (sign) *[Signature]* Time **1300** Date **9/24**
Received By: (sign) *[Signature]* Time **1320** Date **8/24/11**
Received in Laboratory By: *[Signature]* Time **8:00** Date **8/25/11**