

State of Wisconsin - Department of Natural Resources
 Substance Release Notification Report
 Report created on 01/25/2008

04-16-550852

SPILL ID# 20071022NO16-1

BRRTS#

04-16-550852

Incident Date & Time: 10/22/2007	Reported Date & Time: 10/22/2007 20:10	BRRTS No: 02-16-550859	Spill ID: 20071022NO16-1
DATCP Reported? No DATCP Transferred? No	NFA Letter Sent? No	ERP Transferred? <input checked="" type="checkbox"/> Yes	Incident Closed? Yes : 01/25/2008

Location		
Region: NO	County: Douglas	Municipality: SUPERIOR, TOWNSHIP OF
Facility/Property Name and Street Address: MURPHY OIL 2407 STINSON AVE		Description: CENTRAL TO PROPERTY, SOUTH OF GREEN GAS UNIT
Facility Type: Bulk Oil Petroleum Facility/Pipeline/Transfer Station		
Lat/Long:	PLSS:	WTM:
Weather Conditions:		

Responsible Parties			
Name/Address (1): MURPHY OIL 2407 STINSON AVE SUPERIOR, WI 54880- (715) 398-8434 x Primary	Contact: LIZ LUNDMARK ENV MANAGER (715) 398-8434 x primary	Other Contact:	Spill Packet:

Cause

Cause Type: Equipment Failure

Substances						
Name	Other / Comments	Amt Released	Amt Recovered	Type	Color	Odor
Other	CRUDE OIL	9.0 bbl	9.0 bbl	LIQUID		

Environmental Impacts / Damages			
Environmental Impacts: SOIL	Resource Damages: No	Injuries: No	Evacuation: No

Cleanup Actions	
Method	Description
Vacuum	
Excavation	

Cleanup Action Comments

Contractors Hired	
Name	Description

Waste Destinations	
Location	Description

Agencies Notified / On Scene		
Agency	Notified	On Scene

Sent to Horsch 1/28/02

State of Wisconsin - Department of Natural Resources
 Substance Release Notification Report
 Report created on 01/25/2008

SPILL ID# 20071022NO16-1
 BRRTS#

DNR		X		
Additional Comments				
Enforcement Actions				
Enforcement action? No				
Case Activity Report Numbers:		(1)		
Person Reporting				
Name	Representing / Address	Primary Phone	Secondary Phone	
LIZ LUNDMARK	MURPHY OIL	(715) 398-8434 x		
Contractors Hired				
Name / Address			Zone Contractor Hired by DNR?	
			No	
Contacts				
Role	Name / Address	Office Phone	Date	Time
Prepared By:	JOHN SAGER	(715) 365-8959 x	10/22/2007	
Person Notified:	HOTLINE SPOKE TO BURNS/EMAIL KRULL		10/22/2007	
Investigated By:			10/22/2007	
Incident Commander:				
Spill Coordinator:	NO - SAGER, JOHN [P] 715-365-8959		01/25/2008	
Electronic Attachments (list)				
Name	Type			



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Matthew J. Frank, Secretary
John Gozdzialski, Regional Director

Northern Region Headquarters
107 Sutliff Ave.
Rhineland, Wisconsin 54501-3349
Telephone 715-365-8900
FAX 715-365-8932
TTY Access via relay - 711

January 17, 2008

Mr. David Beattie
Murphy Oil
2407 Stinton Avenue
Superior, WI 54880

Subject: October 22, 2007 crude oil spill at Murphy Oil, 2407 Stinton Avenue, Superior, WI
WDNR BRRTS ID: 04-16-550852 and 02-16-550859

Dear Mr. Beattie:

On October 22, 2007, Murphy Oil, notified the Wisconsin Department of Natural Resources ("Department") that a spill of crude oil occurred on the Murphy Oil property. Immediate actions consisting of product collection and contaminated soil excavation occurred immediately following the spill. Soil samples collected from the area of the spill indicate soil contamination remains. As a result the Department is transferring this spill from the Spills Program (BRRTS ID 04-16-550852) to the Environmental Repair Program (BRRTS ID 02-16-550859) for oversight of the remaining investigation and cleanup.

Based on the information that has been submitted to the WDNR regarding this site, we believe you are responsible for investigating and restoring the environment at the above-described site under Section 292.11, Wisconsin Statutes, known as the hazardous substances spills law.

Legal Responsibilities:

Your legal responsibilities to investigate and remediate this spill are defined both in statute and in administrative codes. The hazardous substances spill law, Section 292.11 (3) Wisconsin Statutes, states:

- **RESPONSIBILITY.** A person who possesses or controls a hazardous substance which is discharged or who causes the discharge of a hazardous substance shall take the actions necessary to restore the environment to the extent practicable and minimize the harmful effects from the discharge to the air, lands, or waters of the state.

Wisconsin Administrative Code chapters NR 700 through NR 749 establish requirements for emergency and interim actions, public information, site investigations, design and operation of remedial action systems, and case closure. Chapter NR 708 includes provisions for immediate actions in response to limited contamination. Wisconsin Administrative Code chapter NR 140 establishes groundwater standards for contaminants that reach groundwater.

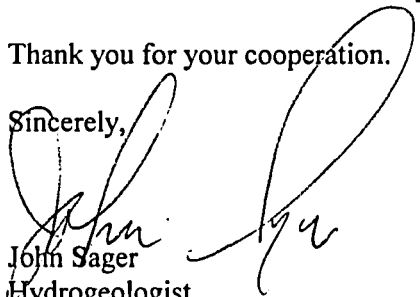
All correspondence regarding this site should reference BRRS ID # 02-16- 550859 and be sent to:

Jim Hosch
Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
1401 Tower Avenue
Superior, WI 54880

Please contact me or Jim Hosch if you have any questions concerning this letter.

Thank you for your cooperation.

Sincerely,



John Sager
Hydrogeologist
Bureau for Remediation & Redevelopment

cc: Jim Hosch (via email)

Sager, John E - DNR

From: Dave_Beattie@murphyoilcorp.com
Sent: Thursday, January 17, 2008 11:06 AM
To: Sager, John E - DNR
Subject: Spill update for 10/22/07 Crude Spill
Attachments: Soil Analysis and map.pdf

Mr. Sager,

Attached you will find the analysis of the soil in the area of the spill. I had initially thought that I may have to resample in the spring as the ground was frozen pretty early and we could only use hand tools for digging under the rack, but after giving a closer look at the results, I am now hoping the site can be closed out.

The majority of the oil that spilled was sitting on top of water that was present in the low areas under the pipe rack. The water and oil was vacuumed up and treated through our onsite WWTP. Stained dirt(along the edges of the water) and long grass was also removed(the crude oil spilled is black in color) during the next week and completed on 11/2/07(soil and grass brought to Voyageur Landfill in Canyon,MN). Samples were taken on 11/13 by Twin Ports Testing. It appears to me, although I may have missed something, that all values fall below the values in Table 1 of NR746.06 used for identifying sites for closure. Sample site S-1, which had 1.2 ppm Benzene(1.1ppm standard) is the only site with a value over the Table 2 direct contact.

With this site being clay, which has very low hydraulic conductivity, can this site be closed out with GIS register?

Please let me know what you think when you get a chance. My apologies for not getting you this stuff earlier for this site, I thought I had gotten it to you, but I must not have gotten to it.

Thanks. Please call with any questions.

Dave

David Beattie
Environmental Engineer
Murphy Oil USA - Superior Refinery
715-398-8455
715-398-8209 fax

(See attached file: Soil Analysis and map.pdf)

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01/17/2008

Twin Ports Testing, Inc.



1301 N. 3rd St. • Superior, WI 54880 • 715-392-7114 • 800-373-2562 • FAX 715-392-7163
P.O. Box 16246 • Duluth, MN 55816-0246 • 218-722-1911
P.O. Box 2 • Virginia, MN 55792 • 218-741-5785
www.twinportstesting.com

November 27th, 2007

TPT #07E-2239

Mr. Dave Beattie
Murphy Oil, U.S.A
2407 Stinson Avenue
Superior, WI 54880

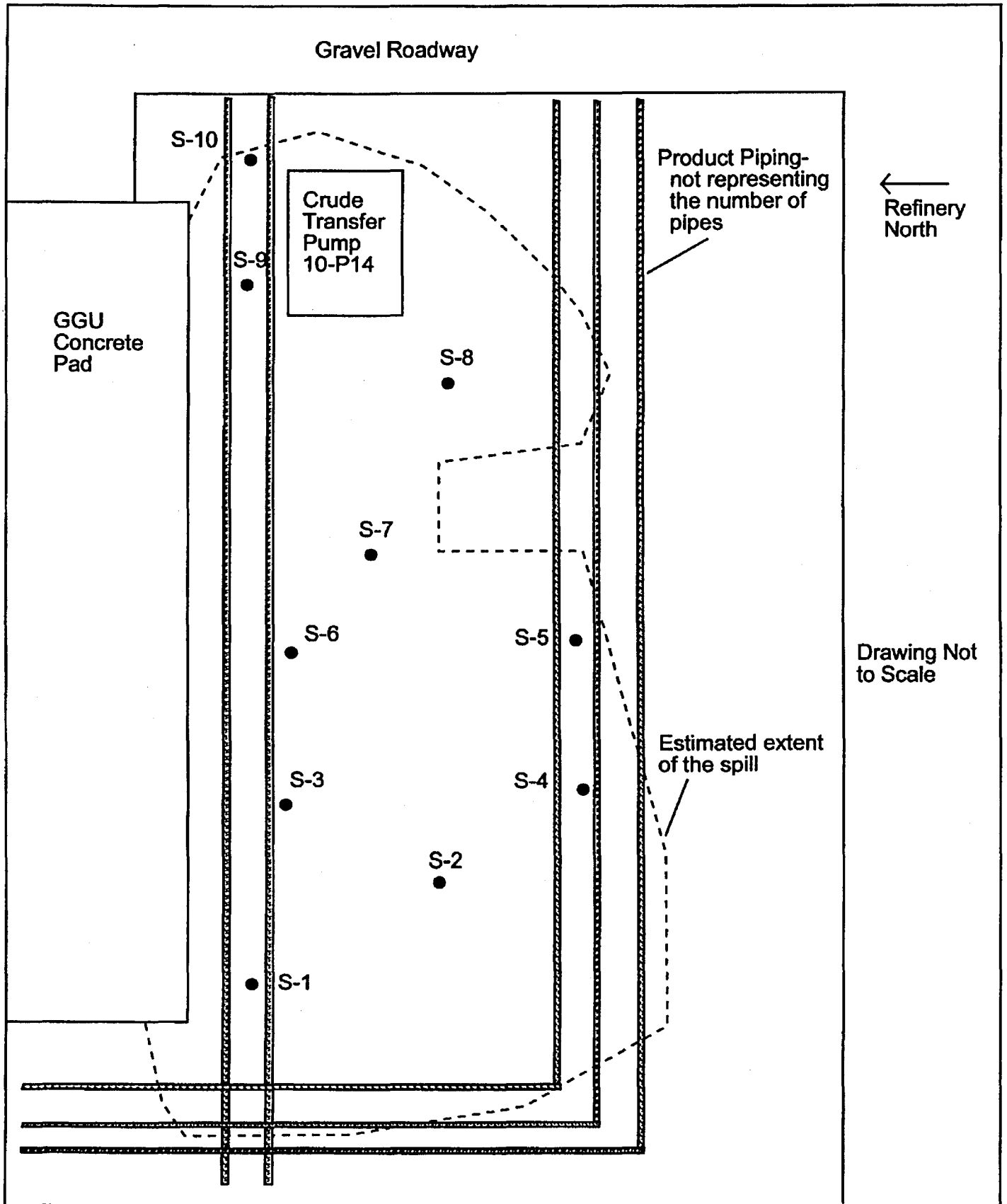
Re: Soil Sampling Locations and Analytical Results, Spill South of GGU
Murphy Oil, U.S.A
Superior Refinery
2407 Stinson Avenue
Superior, WI 54880

Dear Mr. Beattie,

Enclosed is a copy of the laboratory analytical results of the soil samples collected from the spill area located on the south side of the Green Gas Unit. Samples were collected on November 13th, 2007 at approximately 6 inches below the surface and analyzed in the field with a PID. Readings did not exceed 1 ppm in any of the samples collected. Also included is a site map with sampling locations. If you have any questions, please contact me at 715-392-7114.

Sincerely,
Twin Ports Testing, Inc.

Todd Flak, Project Manager



Soil Sampling Locations-South Side of GGU
Murphy Oil, Superior, WI

DRAWN BY	TF
CHECKED BY	TF
APPR BY	TF
DATE	11/13/07
TPT NO.	07e-2239
FIGURE	1



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Todd Flak
Twin Ports Testing
1301 North 3rd Street
Superior, WI 54880

Report Summary

Wednesday November 21, 2007

Report Number: L319836

Samples Received: 11/15/07

Client Project:

Description: Soil Sampling South of GGU

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Jenny Marlowe
Jennifer Marlowe, ISC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 09227, AL - 40660, CA - I-2527, CT - PH-0197, FL - B87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140
NJ - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

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REPORT OF ANALYSIS

Todd Flak
Twin Ports Testing
1301 North 3rd Street
Superior, WI 54880

November 21, 2007

Date Received : November 15, 2007
Description : Soil Sampling South of GGU
Sample ID : S-1 6IN
Collected By : Todd Flak
Collection Date : 11/13/07 10:30

ESC Sample # : L319836-01

Site ID :

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	79.6	0.100	%	2540G	11/21/07	1
PVOCGRO						
Benzene	1.2	0.027	mg/kg	8021	11/16/07	42.5
Toluene	3.6	0.27	mg/kg	8021	11/16/07	42.5
Ethylbenzene	0.82	0.027	mg/kg	8021	11/16/07	42.5
m&p-Xylene	2.4	0.053	mg/kg	8021	11/16/07	42.5
o-Xylene	0.86	0.027	mg/kg	8021	11/16/07	42.5
Methyl tert-butyl ether	0.22	0.053	mg/kg	8021	11/16/07	42.5
Naphthalene	BDL	0.27	mg/kg	8021	11/16/07	42.5
1,3,5-Trimethylbenzene	0.19	0.053	mg/kg	8021	11/16/07	42.5
1,2,4-Trimethylbenzene	0.72	0.053	mg/kg	8021	11/16/07	42.5
GRO	13.	5.3	mg/kg	8015	11/16/07	42.5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene (PID)	103.		% Rec.	8021	11/16/07	42.5
WI DRO	U	10.	mg/kg	DRO	11/18/07	1
Surrogate Recovery (50-150) Triacontane	101.		% Rec.	DRO	11/18/07	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit (PQL)
Note:

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The reported analytical results relate only to the sample submitted
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REPORT OF ANALYSIS

Todd Flak
Twin Ports Testing
1301 North 3rd Street
Superior, WI 54880

November 21, 2007

Date Received : November 15, 2007
Description : Soil Sampling South of GGU
Sample ID : S-2 6IN
Collected By : Todd Flak
Collection Date : 11/13/07 10:45

ESC Sample # : L319836-02

Site ID :

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	72.7	0.100	%	2540G	11/21/07	1
PVOCGRO						
Benzene	0.20	0.033	mg/kg	8021	11/16/07	47.5
Toluene	0.67	0.33	mg/kg	8021	11/16/07	47.5
Ethylbenzene	0.19	0.033	mg/kg	8021	11/16/07	47.5
m&p-Xylene	0.54	0.065	mg/kg	8021	11/16/07	47.5
o-Xylene	0.18	0.033	mg/kg	8021	11/16/07	47.5
Methyl tert-butyl ether	BDL	0.065	mg/kg	8021	11/16/07	47.5
Naphthalene	BDL	0.33	mg/kg	8021	11/16/07	47.5
1,3,5-Trimethylbenzene	BDL	0.065	mg/kg	8021	11/16/07	47.5
1,2,4-Trimethylbenzene	0.19	0.065	mg/kg	8021	11/16/07	47.5
GRO	BDL	6.5	mg/kg	8015	11/16/07	47.5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene (PID)	104.		% Rec.	8021	11/16/07	47.5
WI DRO	230	18.	mg/kg	DRO	11/18/07	1.6
Surrogate Recovery (50-150) Triacontane	104.		% Rec.	DRO	11/18/07	1.6

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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REPORT OF ANALYSIS

Todd Flak
Twin Ports Testing
1301 North 3rd Street
Superior, WI 54880

November 21, 2007

Date Received : November 15, 2007
Description : Soil Sampling South of GGU
Sample ID : S-3 6IN
Collected By : Todd Flak
Collection Date : 11/13/07 11:15

ESC Sample # : L319836-03

Site ID :

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids.	81.4	0.100	%	2540G	11/21/07	1
PVOCGRO						
Benzene	0.10	0.028	mg/kg	8021	11/16/07	46.5
Toluene	0.35	0.28	mg/kg	8021	11/16/07	46.5
Ethylbenzene	0.11	0.028	mg/kg	8021	11/16/07	46.5
m,p-Xylene	0.30	0.057	mg/kg	8021	11/16/07	46.5
o-Xylene	0.10	0.028	mg/kg	8021	11/16/07	46.5
Methyl tert-butyl ether	BDL	0.057	mg/kg	8021	11/16/07	46.5
Naphthalene	BDL	0.28	mg/kg	8021	11/16/07	46.5
1,3,5-Trimethylbenzene	BDL	0.057	mg/kg	8021	11/16/07	46.5
1,2,4-Trimethylbenzene	0.12	0.057	mg/kg	8021	11/16/07	46.5
GRO	BDL	5.7	mg/kg	8015	11/16/07	46.5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(PID)	104.		% Rec.	8021	11/16/07	46.5
WI DRO	11.	9.8	mg/kg	DRO	11/18/07	1
Surrogate Recovery (50-150) Triacontane	96.5		% Rec.	DRO	11/18/07	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Todd Flak
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1301 North 3rd Street
Superior, WI 54880

November 21, 2007

Date Received : November 15, 2007
Description : Soil Sampling South of GGU
Sample ID : S-4 6IN
Collected By : Todd Flak
Collection Date : 11/13/07 11:30

ESC Sample # : L319836-04

Site ID :

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	64.4	0.100	%	2540G	11/21/07	1
PVOCGRO						
Benzene	0.091	0.042	mg/kg	8021	11/16/07	54.5
Toluene	BDL	0.42	mg/kg	8021	11/16/07	54.5
Ethylbenzene	0.095	0.042	mg/kg	8021	11/16/07	54.5
m&p-Xylene	0.24	0.085	mg/kg	8021	11/16/07	54.5
o-Xylene	0.082	0.042	mg/kg	8021	11/16/07	54.5
Methyl tert-butyl ether	BDL	0.085	mg/kg	8021	11/16/07	54.5
Naphthalene	BDL	0.42	mg/kg	8021	11/16/07	54.5
1,3,5-Trimethylbenzene	BDL	0.085	mg/kg	8021	11/16/07	54.5
1,2,4-Trimethylbenzene	0.093	0.085	mg/kg	8021	11/16/07	54.5
GRO	BDL	8.5	mg/kg	8015	11/16/07	54.5
Surrogate Recovery (70-130) a, a, a-Trifluorotoluene (PID)	104.		% Rec.	8021	11/16/07	54.5
WI DRO	230	20.	mg/kg	DRO	11/18/07	1.6
Surrogate Recovery (50-150) Triacontane	110.		% Rec.	DRO	11/18/07	1.6

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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REPORT OF ANALYSIS

Todd Flak
Twin Ports Testing
1301 North 3rd Street
Superior, WI 54880

November 21, 2007

Date Received : November 15, 2007
Description : Soil Sampling South of GGU
Sample ID : S-5 6IN
Collected By : Todd Flak
Collection Date : 11/13/07 12:00

ESC Sample # : L319836-05

Site ID :

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	53.8	0.100	%	2540G	11/21/07	1
FVOCGRO						
Benzene	BDL	0.038	mg/kg	8021	11/16/07	41.5
Toluene	BDL	0.38	mg/kg	8021	11/16/07	41.5
Ethylbenzene	0.053	0.038	mg/kg	8021	11/16/07	41.5
m&p-Xylene	0.098	0.077	mg/kg	8021	11/16/07	41.5
o-Xylene	BDL	0.038	mg/kg	8021	11/16/07	41.5
Methyl tert-butyl ether	BDL	0.077	mg/kg	8021	11/16/07	41.5
Naphthalene	BDL	0.38	mg/kg	8021	11/16/07	41.5
1,3,5-Trimethylbenzene	BDL	0.077	mg/kg	8021	11/16/07	41.5
1,2,4-Trimethylbenzene	BDL	0.077	mg/kg	8021	11/16/07	41.5
GRO	BDL	7.7	mg/kg	8015	11/16/07	41.5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene (PID)	104.		% Rec.	8021	11/16/07	41.5
WI DRO	1400	30.	mg/kg	DRO	11/18/07	2
Surrogate Recovery (50-150) Triacontane	37.0		% Rec.	DRO	11/18/07	2

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (POL)

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L319836-05 (DROWM) - No extra bottles, cannot be re-extracted



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REPORT OF ANALYSIS

Todd Flak
Twin Ports Testing
1301 North 3rd Street
Superior, WI 54880

November 21, 2007

Date Received : November 15, 2007
Description : Soil Sampling South of GGU
Sample ID : S-6 6IN
Collected By : Todd Flak
Collection Date : 11/13/07 12:15

ESC Sample # : L319836-06

Site ID :

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	74.2	0.100	%	2540G	11/21/07	1
PVOCGRO						
Benzene	0.19	0.032	mg/kg	8021	11/16/07	47
Toluene	0.52	0.32	mg/kg	8021	11/16/07	47
Ethylbenzene	0.35	0.032	mg/kg	8021	11/16/07	47
m&p-Xylene	1.1	0.063	mg/kg	8021	11/16/07	47
o-Xylene	0.38	0.032	mg/kg	8021	11/16/07	47
Methyl tert-butyl ether	BDL	0.063	mg/kg	8021	11/16/07	47
Naphthalene	BDL	0.32	mg/kg	8021	11/16/07	47
1,3,5-Trimethylbenzene	0.13	0.063	mg/kg	8021	11/16/07	47
1,2,4-Trimethylbenzene	0.46	0.063	mg/kg	8021	11/16/07	47
GRO	BDL	6.3	mg/kg	8015	11/16/07	47
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene (PID)	104.		% Rec.	8021	11/16/07	47
WI DRO	18.	17.	mg/kg	DRO	11/18/07	1.6
Surrogate Recovery (50-150) Triacontane	67.9		% Rec.	DRO	11/18/07	1.6

Results listed are dry weight basis.

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REPORT OF ANALYSIS

November 21, 2007

Todd Flak
Twin Ports Testing
1301 North 3rd Street
Superior, WI 54880

Date Received : November 15, 2007
Description : Soil Sampling South of GGU
Sample ID : S-7 6IN
Collected By : Todd Flak
Collection Date : 11/13/07 12:30

ESC Sample # : L319836-07

Site ID :

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	84.0	0.100	%	2540G	11/21/07	1
PVOCGRO						
Benzene	BDL	0.025	mg/kg	8021	11/16/07	41.5
Toluene	BDL	0.25	mg/kg	8021	11/16/07	41.5
Ethylbenzene	0.060	0.025	mg/kg	8021	11/16/07	41.5
m&p-Xylene	0.13	0.049	mg/kg	8021	11/16/07	41.5
o-Xylene	0.048	0.025	mg/kg	8021	11/16/07	41.5
Methyl tert-butyl ether	BDL	0.049	mg/kg	8021	11/16/07	41.5
Naphthalene	BDL	0.25	mg/kg	8021	11/16/07	41.5
1,3,5-Trimethylbenzene	BDL	0.049	mg/kg	8021	11/16/07	41.5
1,2,4-Trimethylbenzene	0.15	0.049	mg/kg	8021	11/16/07	41.5
GRO	BDL	4.9	mg/kg	8015	11/16/07	41.5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(PID)	104.		% Rec.	8021	11/16/07	41.5
WI DRO	32.	15.	mg/kg	DRO	11/18/07	1.6
Surrogate Recovery (50-150) Triacontane	79.8		% Rec.	DRO	11/18/07	1.6

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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The reported analytical results relate only to the sample submitted

Reported: 11/21/07 15:11 Revised: 11/21/07 19:41



**ENVIRONMENTAL
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(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

November 21, 2007

Todd Flak
Twin Ports Testing
1301 North 3rd Street
Superior, WI 54880

Date Received : November 15, 2007
Description : Soil Sampling South of GGU
Sample ID : S-8 6IN
Collected By : Todd Flak
Collection Date : 11/13/07 13:00

ESC Sample # : L319836-08

Site ID :

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	84.0	0.100	%	2540G	11/21/07	1
PVOCGRO						
Benzene	BDL	0.026	mg/kg	8021	11/16/07	44.5
Toluene	BDL	0.26	mg/kg	8021	11/16/07	44.5
Ethylbenzene	0.029	0.026	mg/kg	8021	11/16/07	44.5
m&p-Xylene	0.065	0.053	mg/kg	8021	11/16/07	44.5
o-Xylene	BDL	0.026	mg/kg	8021	11/16/07	44.5
Methyl tert-butyl ether	BDL	0.053	mg/kg	8021	11/16/07	44.5
Naphthalene	BDL	0.26	mg/kg	8021	11/16/07	44.5
1,3,5-Trimethylbenzene	BDL	0.053	mg/kg	8021	11/16/07	44.5
1,2,4-Trimethylbenzene	BDL	0.053	mg/kg	8021	11/16/07	44.5
GRO	BDL	5.3	mg/kg	8015	11/16/07	44.5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene (PID)	104.		% Rec.	8021	11/16/07	44.5
WI DRO	20.	15.	mg/kg	DRO	11/18/07	1.6
Surrogate Recovery (50-150) Triacontane	81.2		% Rec.	DRO	11/18/07	1.6

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

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Reported: 11/21/07 15:11 Revised: 11/21/07 19:41



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REPORT OF ANALYSIS

Todd Flak
Twin Ports Testing
1301 North 3rd Street
Superior, WI 54880

November 21, 2007

Date Received : November 15, 2007
Description : Soil Sampling South of GGU
Sample ID : S-9 6IN
Collected By : Todd Flak
Collection Date : 11/13/07 13:15

ESC Sample # : L319836-09

Site ID :

Project # :

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	83.9	0.100	%	2540G	11/21/07	1
PVOCGRO						
Benzene	BDL	0.027	mg/kg	8021	11/16/07	46
Toluene	BDL	0.27	mg/kg	8021	11/16/07	46
Ethylbenzene	BDL	0.027	mg/kg	8021	11/16/07	46
m&p-Xylene	BDL	0.055	mg/kg	8021	11/16/07	46
o-Xylene	BDL	0.027	mg/kg	8021	11/16/07	46
Methyl tert-butyl ether	BDL	0.055	mg/kg	8021	11/16/07	46
Naphthalene	BDL	0.27	mg/kg	8021	11/16/07	46
1,3,5-Trimethylbenzene	BDL	0.055	mg/kg	8021	11/16/07	46
1,2,4-Trimethylbenzene	BDL	0.055	mg/kg	8021	11/16/07	46
GRO	BDL	5.5	mg/kg	8015	11/16/07	46
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene (PID)	104.		% Rec.	8021	11/16/07	46
WI DRO	5.2	15.	mg/kg	DRO	11/18/07	1.6
Surrogate Recovery (50-150) Triacotane	88.8		% Rec.	DRO	11/18/07	1.6

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

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Reported: 11/21/07 15:11 Revised: 11/21/07 19:41



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REPORT OF ANALYSIS

Todd Flak
Twin Ports Testing
1301 North 3rd Street
Superior, WI 54880

November 21, 2007

Date Received : November 15, 2007
Description : Soil Sampling South of GGU

ESC Sample # : L319836-10

Sample ID : S-10 6IN

Site ID :

Collected By : Todd Flak
Collection Date : 11/13/07 13:30

Project # :

Parameter	Dry Result	MDL	RDL	Units	Q	Method	Date	Dil.
Total Solids	72.3	0.0330	0.100	%		2540G	11/21/07	1
PVOCGRO								
Benzene	BDL	0.0073	0.031	mg/kg		8021	11/16/07	44.5
Toluene	BDL	0.073	0.31	mg/kg		8021	11/16/07	44.5
Ethylbenzene	0.032	0.0073	0.031	mg/kg		8021	11/16/07	44.5
m&p-Xylene	BDL	0.015	0.062	mg/kg		8021	11/16/07	44.5
o-Xylene	BDL	0.0073	0.031	mg/kg		8021	11/16/07	44.5
Methyl tert-butyl ether	BDL	0.015	0.062	mg/kg		8021	11/16/07	44.5
Naphthalene	BDL	0.073	0.31	mg/kg		8021	11/16/07	44.5
1,3,5-Trimethylbenzene	BDL	0.015	0.062	mg/kg		8021	11/16/07	44.5
1,2,4-Trimethylbenzene	BDL	0.015	0.062	mg/kg		8021	11/16/07	44.5
GRO	BDL	1.5	6.2	mg/kg		8015	11/16/07	44.5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(PID)	104.			% Rec.		8021	11/16/07	44.5
WI DRO	U	5.3	22.	mg/kg		DRO	11/18/07	2
Surrogate Recovery (50-150) Triacantane	91.6			% Rec.		DRO	11/18/07	2

Results listed are dry weight basis.

U = ND (Not Detected)

MDL = Minimum Detection Limit = LOD = SQL (TRRP)

RDL = Reported Detection Limit = LOQ = PQL = EQL = MQL (TRRP)

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Reported: 11/21/07 15:11 Revised: 11/21/07 19:41

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L319836-05	Triacontane	J2
L319836-09	WI DRO	J

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J	(EPA) - Estimated value below the lowest calibration point. Confidence correlates with concentration.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

- Accuracy** - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision** - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate** - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC** - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
11/21/07 at 19:41:27

TSR Signing Reports: 341
R5 - Desired TAT

Need case narrative, chromatograms, TIC and QC for all TO-15 projects.

Sample: L319836-01 Account: TWINPORWI Received: 11/15/07 09:00 Due Date: 11/23/07 00:00 RPT Date: 11/21/07 15:11
Sample: L319836-02 Account: TWINPORWI Received: 11/15/07 09:00 Due Date: 11/23/07 00:00 RPT Date: 11/21/07 15:11
Sample: L319836-03 Account: TWINPORWI Received: 11/15/07 09:00 Due Date: 11/23/07 00:00 RPT Date: 11/21/07 15:11
Sample: L319836-04 Account: TWINPORWI Received: 11/15/07 09:00 Due Date: 11/23/07 00:00 RPT Date: 11/21/07 15:11
Sample: L319836-05 Account: TWINPORWI Received: 11/15/07 09:00 Due Date: 11/23/07 00:00 RPT Date: 11/21/07 15:11
Sample: L319836-06 Account: TWINPORWI Received: 11/15/07 09:00 Due Date: 11/23/07 00:00 RPT Date: 11/21/07 15:11
Sample: L319836-07 Account: TWINPORWI Received: 11/15/07 09:00 Due Date: 11/23/07 00:00 RPT Date: 11/21/07 15:11
Sample: L319836-08 Account: TWINPORWI Received: 11/15/07 09:00 Due Date: 11/23/07 00:00 RPT Date: 11/21/07 15:11
Sample: L319836-09 Account: TWINPORWI Received: 11/15/07 09:00 Due Date: 11/23/07 00:00 RPT Date: 11/21/07 15:11
Sample: L319836-10 Account: TWINPORWI Received: 11/15/07 09:00 Due Date: 11/23/07 00:00 RPT Date: 11/21/07 15:11



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Twin Ports Testing
Todd Flak
1301 North 3rd Street
Superior, WI 54880

**Quality Assurance Report
Level II**

L319836

November 21, 2007

Analyte	Result	Laboratory Blank		Date Analyzed	Batch
		Units			
WI DRO	< 8	mg/kg		11/16/07 12:37	WG330945
1,2,4-Trimethylbenzene	< .001	mg/kg		11/16/07 12:27	WG330963
1,3,5-Trimethylbenzene	< .001	mg/kg		11/16/07 12:27	WG330963
Benzene	< .0005	mg/kg		11/16/07 12:27	WG330963
Ethylbenzene	< .0005	mg/kg		11/16/07 12:27	WG330963
m,p-Xylene	< .001	mg/kg		11/16/07 12:27	WG330963
Methyl tert-butyl ether	< .001	mg/kg		11/16/07 12:27	WG330963
Naphthalene	< .005	mg/kg		11/16/07 12:27	WG330963
o-Xylene	< .0005	mg/kg		11/16/07 12:27	WG330963
Toluene	< .005	mg/kg		11/16/07 12:27	WG330963
GRO	< .1	mg/kg		11/16/07 12:27	WG330963
Total Solids	< .1	%		11/21/07 11:02	WG331409
Total Solids	< .1	%		11/21/07 09:40	WG331410

Analyte	Units	Duplicate		RPD	Limit	Ref Samp	Batch
		Result	Duplicate				
Total Solids	%	63.7	64.4	1.07	5	L319836-04	WG331409
Total Solids	%	84.5	84.0	0.644	5	L319851-04	WG331410

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
WI DRO	mg/kg	40	39.2	98.0	70-120	WG330945
1,2,4-Trimethylbenzene	mg/kg	.05	0.0541	108.	59-138	WG330963
1,3,5-Trimethylbenzene	mg/kg	.05	0.0566	113.	66-132	WG330963
Benzene	mg/kg	.05	0.0554	111.	78-141	WG330963
Ethylbenzene	mg/kg	.05	0.0544	109.	69-133	WG330963
m,p-Xylene	mg/kg	.1	0.114	114.	61-121	WG330963
Methyl tert-butyl ether	mg/kg	.05	0.0596	119.	54-129	WG330963
Naphthalene	mg/kg	.05	0.0507	101.	80-120	WG330963
o-Xylene	mg/kg	.05	0.0573	115.	71-121	WG330963
Toluene	mg/kg	.05	0.0561	112.	65-117	WG330963
GRO	mg/kg	.5	0.425	85.1	80-120	WG330963
Total Solids	%	50	50.0	99.9	85-115	WG331409
Total Solids	%	50	50.0	100.	85-115	WG331410

Analyte	Units	Laboratory Control Sample		Duplicate		Limit	%Rec	Batch
		LCSD	Res Ref	Res	RPD			
WI DRO	mg/kg	38.8	39.2	1.13	20	97		WG330945
1,2,4-Trimethylbenzene	mg/kg	0.0544	0.0541	0.533	20	109		WG330963
1,3,5-Trimethylbenzene	mg/kg	0.0555	0.0566	1.83	20	111		WG330963
Benzene	mg/kg	0.0557	0.0554	0.516	20	111		WG330963
Ethylbenzene	mg/kg	0.0533	0.0544	2.06	20	107		WG330963
m,p-Xylene	mg/kg	0.114	0.114	0.0338	20	114		WG330963
Methyl tert-butyl ether	mg/kg	0.0569	0.0596	4.58	20	114		WG330963
Naphthalene	mg/kg	0.0555	0.0507	9.11	20	111		WG330963
o-Xylene	mg/kg	0.0569	0.0573	0.707	20	114		WG330963
Toluene	mg/kg	0.0561	0.0561	0.0455	20	112		WG330963
GRO	mg/kg	0.473	0.425	10.6	20	95		WG330963



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Twin Ports Testing
Todd Flak
1301 North 3rd Street
Superior, WI 54880

**Quality Assurance Report
Level II**

L319836

November 21, 2007

Analyte	Units	Matrix Spike		TV	% Rec	Limit	Ref Samp	Batch
		MS Res	Ref Res					
1,2,4-Trimethylbenzene	mg/kg	2.26	0.00	.05	102	80-120	L319836-10	WG330963
1,3,5-Trimethylbenzene	mg/kg	2.31	0.00	.05	104	80-120	L319836-10	WG330963
Benzene	mg/kg	2.27	0.00	.05	102	80-120	L319836-10	WG330963
Ethylbenzene	mg/kg	2.18	0.0230	.05	97.1	80-120	L319836-10	WG330963
m&p-Xylene	mg/kg	4.69	0.00	.1	105	80-120	L319836-10	WG330963
Methyl tert-butyl ether	mg/kg	2.40	0.00	.05	108	80-120	L319836-10	WG330963
Naphthalene	mg/kg	2.09	0.00	.05	94.0	80-120	L319836-10	WG330963
o-Xylene	mg/kg	2.30	0.00	.05	103	80-120	L319836-10	WG330963
Toluene	mg/kg	2.28	0.00	.05	103	80-120	L319836-10	WG330963
GRO	mg/kg	19.6	0.00	.5	88.3	80-120	L319836-10	WG330963

Analyte	Units	Matrix Spike Duplicate		RPD	Limit	%Rec	Ref Samp	Batch
		MSD Res	Ref Res					
1,2,4-Trimethylbenzene	mg/kg	2.31	2.26	2.21	20	104	L319836-10	WG330963
1,3,5-Trimethylbenzene	mg/kg	2.35	2.31	1.70	20	106	L319836-10	WG330963
Benzene	mg/kg	2.30	2.27	1.32	20	103	L319836-10	WG330963
Ethylbenzene	mg/kg	2.20	2.18	0.577	20	97.8	L319836-10	WG330963
m&p-Xylene	mg/kg	4.72	4.69	0.575	20	106	L319836-10	WG330963
Methyl tert-butyl ether	mg/kg	2.32	2.40	3.12	20	104	L319836-10	WG330963
Naphthalene	mg/kg	2.42	2.09	14.5	20	109	L319836-10	WG330963
o-Xylene	mg/kg	2.32	2.30	0.879	20	104	L319836-10	WG330963
Toluene	mg/kg	2.31	2.28	1.36	20	104	L319836-10	WG330963
GRO	mg/kg	20.2	19.6	2.75	20	90.7	L319836-10	WG330963

Batch number / Run number / Sample number cross reference

WG330963: R342195: L319836-01 02 03 04 05 06 07 08 09 10
 WG330945: R342251: L319836-01 02 03 04 05 06 07 08 09 10
 WG331409: R342680: L319836-01 02 03 04
 WG331410: R342694: L319836-05 06 07 08 09 10

* * Calculations are performed prior to rounding of reported values .



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Twin Ports Testing
Todd Flak
1301 North 3rd Street
Superior, WI 54880

Quality Assurance Report
Level II

L319836

November 21, 2007

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

Twin Ports Testing
 1301 N. 3rd St.
 Superior WI 54110

Alternate billing information:

Report to:
 Todd Flak
 Email to:

Analysis/Container/Preservative

Chain of Custody
 Page 1 of 2

Prepared by:

**ENVIRONMENTAL
 SCIENCE CORP.**

12065 Lebanon Road
 Mt Juliet, TN 37122

Phone (615) 758-5858
 Phone (800) 767-5859
 FAX (615) 758-5859

Project Description: Soil sampling south of 666

City/State Collected: Superior WI

Phone: 715 392 7114
 FAX: 715 392 7114

Client Project #:

ESC Key:

Collected by: Todd Flak

Site/Facility ID#:

P.O.#:

Collected by (signature):

Todd Flak

Rush? (Lab MUST Be Notified)

Same Day.....200%
 Next Day.....100%
 Two Day.....50%
 Three Day.....25%

Date Results Needed:

Email? __No__ Yes
 FAX? __No__ Yes

Packed on Ice N Y

Sample ID	Comp/Grab	Matrix	Depth	Date	Time	No. of Cans	Analysis/Container/Preservative	Remarks/Contaminant	Sample # (lab only)
S-1	Grab	GW SS	6"	11-13-07	10 ³⁰	3	X		L-11-13-07-01
S-2	Grab	GW			10 ⁴⁵				-02
S-3					11 ¹⁵				-03
S-4					11 ³⁰				-04
S-5					12 ⁰⁰				-05
S-6					12 ¹⁵				-06
S-7					12 ³⁰				-07
S-8					1 ⁰⁰				-08

*Matrix SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

pH _____ Temp _____

Remarks:

8634 7875 2972

Flow _____ Other _____

Relinquished by: (Signature) Todd Flak	Date: 11-14-07	Time: 2:48	Received by: (Signature) J.W. Egan	Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/>	Condition: (lab use only)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date: 5/1/08	Time: 2:30
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date: 11/5	Time: 9:00

Alternate billing information: Report to: <u>Todd Felt</u> Email to:		Analysis/Container/Preservative				Chain of Custody Page 1 of 2	
		Prepared by: ENVIRONMENTAL SCIENCE CORP. 12065 Lebanon Road Mt. Juliet, TN 37122 Phone (615) 758-5858 Phone (800) 767-5859 FAX (615) 758-5859					
		Project Description: <u>Soil Sampling south of GGU</u> City/State Collected: <u>Superior, WI</u> Phone: <u>715-392-7114</u> Client Project #: _____ ESC Key: _____ Collected by: <u>Todd Felt</u> Site/Facility ID#: _____ P.O.#: _____ Collected by (signature): <u>Todd Felt</u> Rush? (Lab MUST Be Notified) Same Day.....200% Next Day.....100% Two Day.....50% Three Day.....25% Date Results Needed: Email? ___No___Yes FAX? ___No___Yes Packed on Ice: N ___ Y ___					
Twin Portals Testing 1301 N. 3rd St. Superior, WI 54880		No. of Containers <u>3</u>		Remarks/Contaminant		Sample # (lab only)	
Sample ID	Comp/Grab	Matrix	Depth	Date	Time		
5.9	Grab	GW SS	6"	11-8-07	1:15	3	319336-09
5.10	Grab	GW SS	↓	↓	1:30	3	410

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____ pH _____ Temp _____
 Remarks: _____ Flow _____ Other _____

8634 7875 2972

Relinquished by: (Signature) <u>Todd Felt</u>	Date: <u>11-14-07</u>	Time: <u>2:49</u>	Received by: (Signature) <u>FW-EX</u>	Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier	Condition: (lab use only)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: <u>5.1</u>	Box Temp: <u>29</u>
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: <u>11/16</u>	Time: <u>9:05</u>