

September 7, 2011

Mr. John Somers, Director of Administration City of Beaver Dam 205 S. Lincoln Avenue Beaver Dam, WI 53916

Re:

Phase II Environmental Site Assessment

Zieman Property, N8331 Kellom Road, Beaver Dam

Dear Mr. Somers:

As a result of the Phase I Environmental Site Assessment (ESA) performed in August 2011 at the above subject property, MSA Professional Services, Inc. (MSA) identified the former presence of an underground gasoline tank and two aboveground petroleum fueling tanks as potential recognized environmental conditions for the property. MSA recommended that Phase II ESA soil borings be performed in the area of the tanks to determine if a release to the environment had occurred.

According to the current owner's representative for the property, Richard Zieman, there may have been an underground storage tank located southwest of a large tree on the south side of the present driveway. Two aboveground fuel tanks were later located in the same general vicinity. The aboveground tanks have been removed from the property; the fate of the underground tank is unknown, and no tank abandonment records have been located.

In order to determine if a release occurred from either of these tank systems, MSA performed three soil borings at the property on August 29, 2011. Figure 2 (attached) illustrates the location of the three soil borings. The borings were advanced with Geoprobe® drilling equipment.

All three borings were advanced to refusal on dolomitic bedrock. Bedrock refusal was encountered at approximately 11 feet below ground surface (bgs) in B-1, at 7 feet bgs in B-2, and at 14 feet bgs at B-3. Soil samples were screened in the field at two foot intervals in all three borings for organic vapors using a Thermo Environmental Instruments photoionization detector calibrated to isobutylene. No organic vapors above background were detected.

Four soil samples were submitted to the TestAmerica Laboratory in Watertown, Wisconsin for analysis of petroleum compounds. All four samples were analyzed for Gasoline Range Organics (GRO) and petroleum volatile organic compounds (PVOCs). In addition, three of the samples were analyzed for Diesel Range Organics (DRO) and Total Lead.

Page 2

Mr. John Somers, City of Beaver Dam September 7, 2011

No groundwater was encountered in the soil borings to the total depth investigated. It is anticipated that groundwater is approximately 18 to 20 feet below ground surface in this area, based on the depth to groundwater in the drinking water well. The presence of bedrock at shallow depths prohibited MSA from collecting and analyzing groundwater samples.

No GRO or PVOCs were detected in the four soil samples. Lead concentrations were equivalent to normal background lead levels in soil. Low levels of DRO were detected in all three samples analyzed, but are likely due to naturally occurring organics in the soil. All DRO concentrations were well below the Department of Natural Resources reporting limit of 10 mg/kg.

No petroleum contamination above State of Wisconsin Standards was detected in the three borings advanced for the Phase II ESA. Based on these results, MSA does not recommend further assessment related to the reported underground tank on the subject property.

Thank you for the opportunity to provide engineering services to the City of Beaver Dam. Please contact us if you have questions concerning the assessment results (800-362-4505).

Sincerely,

MSA Professional Services, Inc.

Richard S. Lyster, P.G.

Team Leader

RSL:tc

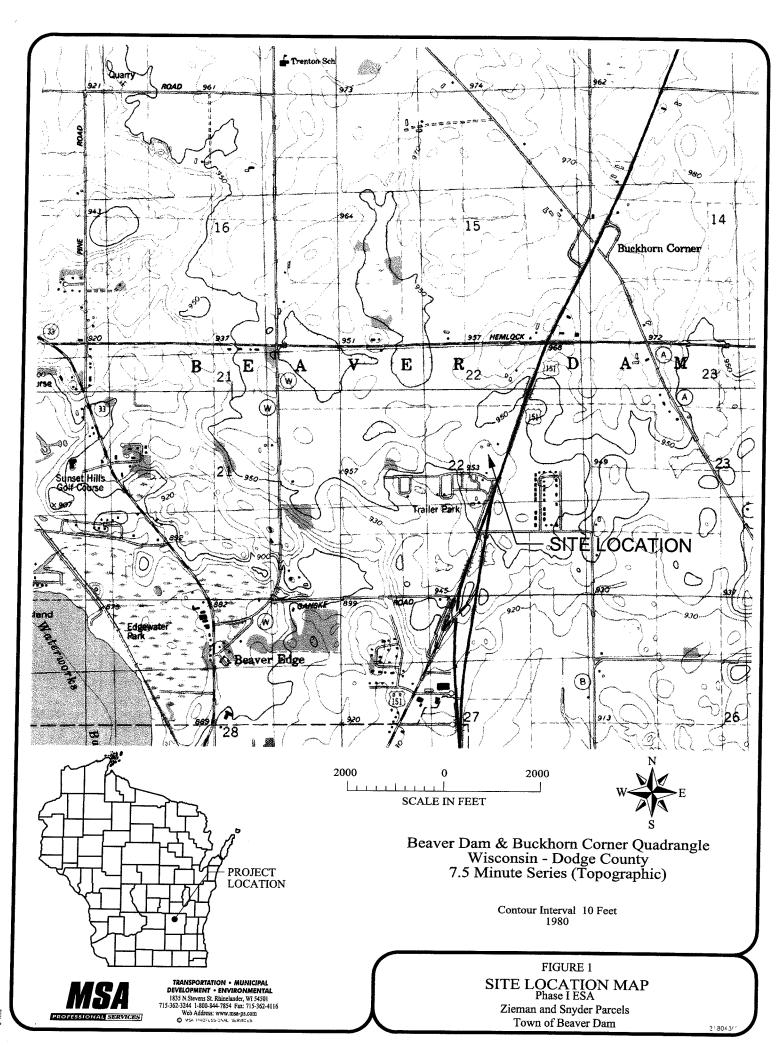
Enc. Figure 1 – Site Location Map

Figure 2 – Soil Boring Locations

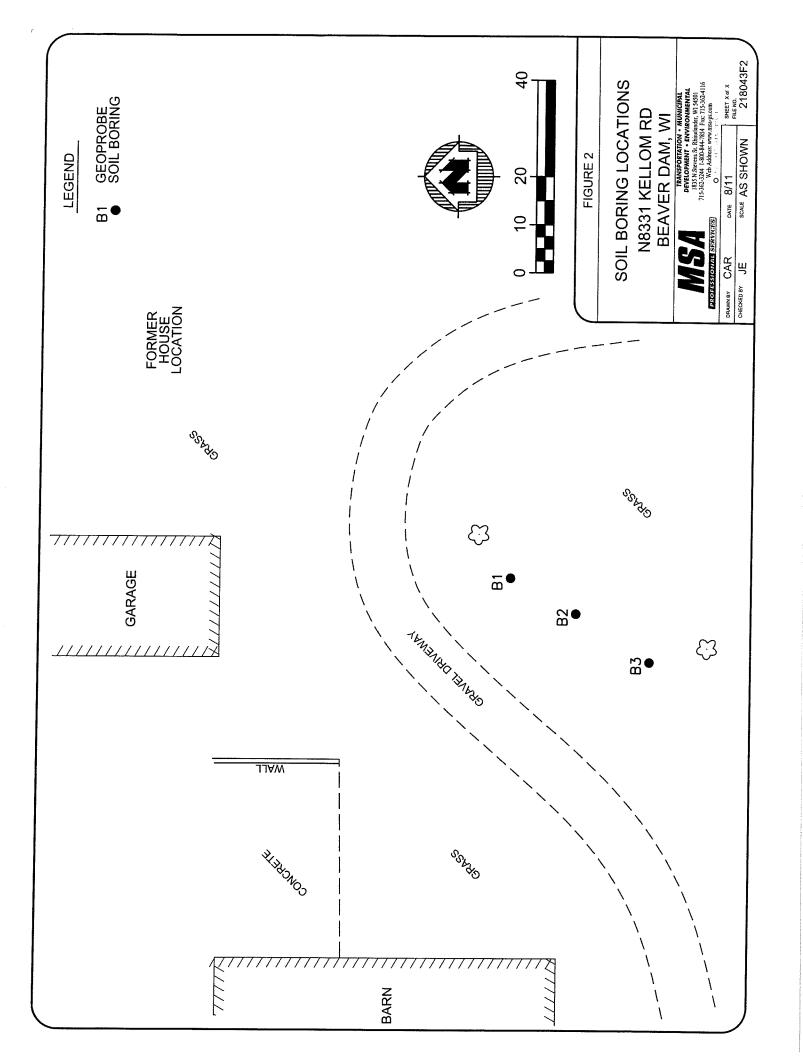
Soil Boring Logs

Borehole Abandonment Forms

Laboratory Report - TestAmerica



11.



State of Wisconsin Department of Natural Resources

SOIL BORING LOG INFORMATION

Fax:

Form 4400-122 Rev. 7-98 Route To: Watershed/Wastewater Waste Management Remediation/Redevelopment Other \square of 1 Facility/Project Name License/Permit/Monitoring Number Boring Number Ziemann Property B-1 Boring Drilled By: Name of crew chief (first, last) and Firm Date Drilling Started Date Drilling Completed Drilling Method Corey Andersen Soil Essentials 8/29/2011 8/29/2011 geoprobe WI Unique Well No. DNR Well ID No. Common Well Name | Final Static Water Level Surface Elevation Borehole Diameter Feet MSL Feet MSL 1.5 inches Local Grid Origin (estimated:) or Boring Location Local Grid Location State Plane Lat N, E S/C/N \square N \Box E SW 1/4 of Section 1/4 of NE 22, T 12 N, R 14 E Feet \square S Long Feet W Facility ID County County Code Civil Town/City/ or Village 14 Beaver Dam Sample Soil Properties Length Att. & Recovered (in) Soil/Rock Description Blow Counts Depth In Feet Compressive Strength and Type And Geologic Origin For RQD/ Comments Moisture PID/FID SCS Plasticity Graphic Content Each Major Unit Liquid Limit P 200 Well Index 24 22 Grass surface with topsoil COR Brown Silt 0 2 COR 24 22 - 3 0 ML 3 COR . 5 0 6 24 COR 7 Same, brown silt but mixed with dolomite gravel. Much harder drilling at 7 feet, very 0 abundant gravel from 8 to 11 feet, refusal 8 5 COR 24 on weathered dolomite gravel at approximately 11 feet. ML 0 10 24 COR - 11 I hereby certify that the information on this form is true and correct to the best of my knowledge. Signature MSA Professional Services, Inc. Tel:

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form m result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed fo should be sent.

State of Wisconsin Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form m result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed fo should be sent.

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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Bori	ng Num	ber	B-3	Use only as an attachment to Form 440	0-122.						Pa	age 2	of	2
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WELL/DRILLHOLE/BOREHOLE ABANDONMENT Form 3300-5B Rev. 4-97

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION		(2) FAC	ILITY NAMI	E Ziemann Pro	nerty	
Well/Drillhole/Borehole County			Well Owner (perty	
Location B-1 14			ann Proper			
CW NC 22	⊠E		Well Owner			
SW 1/4 of NE 1/4 of Sec. 22 ; T. 1	2_N; R14					
(If Applicable)		Street or	Route		-	
Grid Location Gov't Lot	Grid Number	0				
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ft. \[\scale \text{N.} \[\scale \text{S.}, \] Civil Town Name	ft E W.	Beave	er Dam, WI	53916	·	
		1	well No. and/o	or Name (If Appl	icable)	WI Unique Well No.
Street Address of Well		B-1	or Abandonm	uent .		
N8331 Kellom Road		1	leted Samp			
City, Village		Date of A	bandonment	nnig		
Beaver Dam		8/29/1				
WELL/DRILLHOLE/BOREHOLE INFORMATION	ON					
(3) Original Well/Drillhole/Borehole Construction	n Completed On	(4) Depth	to Water (Fe	et) dry		
(Date) 08/29/2011		Pump	& Piping Ren	noved?	Yes 🗌 No	☐ Not Applicable
		Liner(s) Removed?		Yes 🗌 No	
	tion Report Available?	1	n Removed?		Yes 🗌 No	☐ Not Applicable
Water Well	Yes No	1	g Left in Place		Yes 🗌 No	• •
☐ Drillhole ☐ Borehole		If No,	Explain			
⊠ Borenote						
Construction Type:				Below Surface?		= 1.0
	.,			I Rise to Surface		=
☐ Drilled ☐ Driven (Sandpoin ☐ Other (Specify) _geoprobe	t) Ll Dug	T .		After 24 Hours?	☐ Yes	= ***
es outer (specify)			, Was Hole Re		☐ Yes	□ No
Formation Type:				Placing Sealing	Material	
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		☐ Du	ımp Bailer		Other (Expla	
Total Well Depth (ft) Casing Dia	ameter (in.)	(6) Sealing	g Materials		For monit	toring wells and
(From ground surface) Casing De	pth (ft.)	☐ Ne	at Cement Gr	out		g well boreholes only
Lower Duillhala Diameter (C.)		☐ Sai	nd-Cement (C	Concrete) Grout		
Lower Drillhole Diameter (in.)		1 —	ncrete		Bentor	nite Pellets
Was Well Annular Space Grouted? Ye	s 🗌 No 🔲 Unknown		ay-Sand Slurr		i 🔲 Granu	lar Bentonite
If Yes, To What Depth?	s L No L Unknown Feet		ntonite-Sand		Bentor	nite-Cement Grout
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(7) Sealing Material Used		From (Ft.)	To (Ft.)		Min Da	. M. 1377
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Bentonite Chips		Surface	11.0	7165	1	
8) Comments						
		Statement				
9) Name of Person or Firm Doing Sealing Work		(10)		R DNR OR COL	JNTY USE C	NLY
Soil Essentials ignature of Person Doing Work	D 6:	Date F	Received/Insp	ected	District/0	County
reverence of Leizon Doill Molk	Date Signed					
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W6306 Hwy. 39	Telephone Number		**		No	ncomplying Work
ity, State, Zip Code	608-527-2355	Follow	v-up Necessar	У		
New Glarus, WI 53574						
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WELL/DRILLHOLE/BOREHOLE ABANDONMENT Form 3300-5B Rev. 4-97

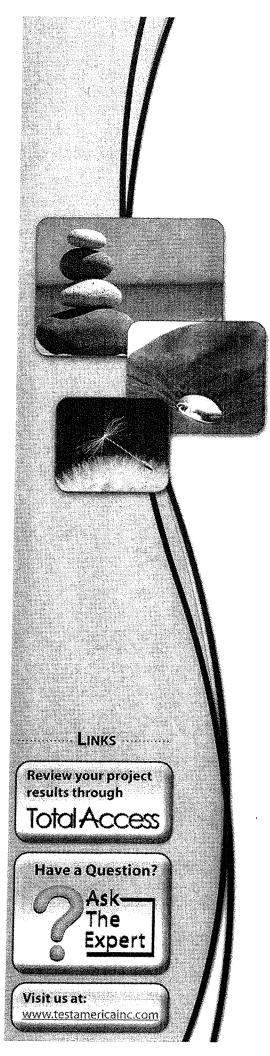
All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION		(2) FACI	LITY NAME	E Ziemann Pro) newhy	
Well/Drillhole/Borehole County		Original	Well Owner (If Known)	perty	
Location B-2 14			ınn Propert			
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ft. \[\scale \text{N.} \[\scale \text{S.,} \] Civil Town Name	ft. L E. L W.	Beave	r Dam, WI	53916		
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Street Address of Well		B-2	or Abandonm	uent		
N8331 Kellom Road		ı	leted Samp			
City, Village			bandonment	mig		
Beaver Dam		8/29/1	1			
WELL/DRILLHOLE/BOREHOLE INFORM	ATION					
(3) Original Well/Drillhole/Borehole Constru	action Completed On	(4) Depth	to Water (Fed	et) dry		
(Date) <u>08/29/2011</u>		Pump	& Piping Rer	moved?	Yes No Not Applica	able
		Liner(s) Removed?		Yes No Not Applica	
	struction Report Available?	Screen	Removed?		Yes No Not Applica	
Water Well	☐ Yes ☒ No	1	Left in Place		Yes No	
☐ Drillhole		If No,	Explain			
⊠ Borehole						
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☐ Drilled ☐ Driven (Sand ☐ Other (Specify) _geoprobe	lpoint) U Dug			After 24 Hours?	☐ Yes ☐ No	
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(From ground surface) Casin	g Depth (ft.)	☐ Ne	at Cement Gr	out	monitoring well boreholes or	nly
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If Yes, To What Depth?	Yes No Unknown Feet		ntonite-Sand		Bentonite-Cement Grout	
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8) Comments						
8) Comments						
9) Name of Person or Firm Doing Sealing Wo	ork	(10)	FO	R DNR OR COU	UNTY USE ONLY	
Soil Essentials		100000000000000000000000000000000000000	Received/Insp		District/County	
ignature of Person Doing Work	Date Signed				7.5777	
		Revie	wer/Inspector	•	Complying Work	
treet or Route	Telephone Number				Noncomplying Work	
W6306 Hwy. 39	608-527-2355	Follov	/-up Necessar	ry		1
ity, State, Zip Code						
New Glarus, WI 53574						10111

WELL/DRILLHOLE/BOREHOLE ABANDONMENT Form 3300-5B Rev. 4-97

All abandonment work shall be performed in accordance with the provisions of Chapters NR 811, NR 812 or 141, Wis. Admin. Code, whichever is applicable.

(1) GENERAL INFORMATION		(2) FACI	LITY NAME	Ziemann Pro	nerty
Well/Drillhole/Borehole County			Well Owner (borry
Location B-3 14		Ziema	ann Propert	ies	
	⊠ E		Vell Owner		
SW 1/4 of NE 1/4 of Sec. 22; T. 12	$\stackrel{!}{\sim}$ N; R. $\stackrel{!}{\sim}$ 14 $\stackrel{!}{\square}$ W				
(If Applicable)		Street or	Route		
Gov't Lot	Grid Number				
Grid Location	Gra Hamber	City, Stat	e, Zip Code		
ft.	ft.		r Dam, WI	53016	
Civil Town Name	11, L. L. YY.	Facility V	Vell No. and/o	or Name (If Appl	icable) WI Unique Well No.
		B-3		or realite (11 7 tpp)	wi offique wen ivo.
Street Address of Well			or Abandonm	ent	
N8331 Kellom Road					
City, Village	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		leted Samp bandonment	ning	
Beaver Dam					
WELL/DRILLHOLE/BOREHOLE INFORMATION	N.	8/29/1	1		
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(3) Original Well/Drillhole/Borehole Construction	Completed On		to Water (Fee		
(Date) <u>08/29/2011</u>			& Piping Rer		Yes U No U Not Applicable
		•	s) Removed?		Yes U No U Not Applicable
	ion Report Available?	Screen	Removed?		Yes No Not Applicable
	Yes No	Casing	g Left in Place	? ⊠	Yes No
☐ Drillhole		If No,	Explain		
⊠ Borehole					
		Was C	asing Cut Off	f Below Surface?	Yes No
Construction Type:				l Rise to Surface	
☐ Drilled ☐ Driven (Sandpoint	Dug	1	_	After 24 Hours?	Yes No
Other (Specify) _geoprobe) <u> </u>	1	Was Hole Re		
in the control of the					
Formation Type:				Placing Sealing	
	D 1 1	☐ Co	nductor Pipe	- Gravity	Conductor Pipe - Pumped
Unconsolidated Formation	Bedrock	Du	ımp Bailer		Other (Explain)
Total Well Depth (ft) Casing Dia	meter (in.)	(6) Sealing	Materials		For monitoring wells and
(From ground surface) Casing Dep			at Cement Gr	out	monitoring well boreholes only
, 5	()			Concrete) Grout	monitoring well borenoles only
Lower Drillhole Diameter (in.)			ncrete	oncrete) Grout	
		1			Bentonite Pellets
Was Well Annular Space Grouted? Yes	s □ No □ Unknown		y-Sand Slurr		Granular Bentonite
If Yes, To What Depth?	Feet		ntonite-Sand		Bentonite-Cement Grout
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(7) Sealing Material Used		Engage (Ct.)	T- (F4)		100
Scannig Material Osed		From (Ft.)	To (Ft.)		Mix Ratio or Mud Weight
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Bentonite Chips		Surface	14	9 165	
(8) Comments					
(0) Name of Person Firm Dail C. I. W. I.	I	egistissatio			
(9) Name of Person or Firm Doing Sealing Work		(10)			UNTY USE ONLY
Soil Essentials		Date 1	Received/Insp	ected	District/County
Signature of Person Doing Work	Date Signed				
		Revie	wer/Inspector		Complying Work
Street or Route	Telephone Number				Noncomplying Work
W6306 Hwy. 39	608-527-2355	Follov	v-up Necessa	гу	2 MOSHINI WILL
City, State, Zip Code					
New Glarus, WI 53574					
	1				



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc. TestAmerica Watertown 1101 Industrial Drive, Suites 9 & 10 Watertown, WI 53094 Tel: 800-833-7036

TestAmerica Job ID: WUH0883 Client Project/Site: 218043

Client Project Description: Ziemann Property

For:

MSA Professional Services Inc. 1230 South Blvd Baraboo, WI 53913

Attn: Ms. Jayne Englebert

and in beden

Authorized for release by: 09/06/2011 11:30:50 AM

Sandie Fredrick Project Manager

Sandie.Fredrick@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Definitions/Glossary

Client: MSA Professional Services Inc.

Project/Site: 218043

TestAmerica Job ID: WUH0883

Qualifiers

GC Volatiles

Qualifier

Qualifier Description

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

TCHI

Qualifier

Qualifier Description

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
	Listed under the "D" column to designate that the result is reported on a dry weight basis

%R

Percent Recovery

DL, RA, RE, IN

Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample Estimated Detection Limit (Dioxin)

EDL

EPA MDL United States Environmental Protection Agency

Method Detection Limit

ML

Minimum Level (Dioxin)

ND

Not detected at the reporting limit (or method detection limit if shown)

PQL

Practical Quantitation Limit

RL

Reporting Limit

RPD

Relative Percent Difference, a measure of the relative difference between two points

TEF TEQ

Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: MSA Professional Services Inc.

Project/Site: 218043

TestAmerica Job ID: WUH0883

Client Sample ID: B-1 10-11'						La	b S	Sample ID:	WUH0883-0
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	2.4		0.47	0.23	mg/Kg dry	1	77	6010B Dry	Total
Diesel Range Organics [C10-C28]	2.1	J	3.2		mg/Kg dry	1	Ü	WI-DRO Dry	Total
Client Sample ID: B-2 6-7'						Lal	o S	ample ID:	WUH0883-0
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	5.9		0.50	0.24	mg/Kg dry	1	ō	6010B Dry	Total
Diesel Range Organics [C10-C28]	1.7	J	3.8	1.4	mg/Kg dry	1	ø	WI-DRO Dry	Total
Client Sample ID: B-3 10-12'						Lat	S	ample ID: \	WUH0883-03
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D i	Method	Prep Type
Lead	7.1		0.49	0.24	mg/Kg dry	1	÷ (6010B Dry	Total
Diesel Range Organics [C10-C28]	1.4	J	3.4	1.2	mg/Kg dry	1	Ø 1	WI-DRO Dry	Total
Client Sample ID: B-1 6-8'	1971 T. 1888 D. L. 1888 T. 1888 T. 1888 T. 1888 T. 1888 T. 1888 T. 1888 T. 1888 T. 1888 T. 1888 T. 1888 T. 1888					Lab	S	ample ID: \	WUH0883-04
No Detections						**************************************			
Client Sample ID: Methanol Blan	k				and the other changes of section (1), the	Lab	Sa	ample ID: V	VUH0883-05
No Detections		The Commission of the Commissi	The text the experience country and the country of		A Bosonian Print Co. Co.		. 141		

Client Sample Results

Client: MSA Professional Services Inc.

Project/Site: 218043

TestAmerica Job ID: WUH0883

Client Sample ID: B-1 10-11'

Date Collected: 08/29/11 09:40 Date Received: 08/30/11 08:30 Lab Sample ID: WUH0883-01

Matrix: Soil

Percent Solids: 96.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<26	And the second of order of the second of the	100	26	ug/kg dry	15	08/31/11 06:25	08/31/11 18:26	1.
Ethylbenzene	<26		100	26	ug/kg dry	়	08/31/11 06:25	08/31/11 18:26	1.
Methyl tert-Butyl Ether	<26		100	26	ug/kg dry	Œ	08/31/11 06:25	08/31/11 18:26	1.
Naphthalene	<26		100	26	ug/kg dry	Ħ	08/31/11 06:25	08/31/11 18:26	1.
Toluene	<26		100	26	ug/kg dry	-0	08/31/11 06:25	08/31/11 18:26	1.
1,2,4-Trimethylbenzene	<26		100	26	ug/kg dry	÷	08/31/11 06:25	08/31/11 18:26	1.
1,3,5-Trimethylbenzene	<26		100	26	ug/kg dry	×	08/31/11 06:25	08/31/11 18:26	1.
Xylenes, total	<78		310	78	ug/kg dry	Ġ	08/31/11 06:25	08/31/11 18:26	1.
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
		***************************************						· · · · · · · · · · · · · · · · · · ·	u
4-Bromofluorobenzene Method: WDNR GRO - GC VOLA	99 FILES		80 _ 120				08/31/11 06:25	08/31/11 18:26	1.
	TILES	Qualifier	80 ₋ 120 RL	MDL	Unit	D			
Method: WDNR GRO - GC VOLAT	TILES	Qualifier		MDL 2.1	Unit mg/kg dry	<u>D</u>	08/31/11 06:25 Prepared 08/31/11 06:25	08/31/11 18:26 Analyzed 08/31/11 18:26	Dil Fac
Method: WDNR GRO - GC VOLAT Analyte Gasoline Range Organics	FILES Result <2.1	Qualifier	RL				Prepared	Analyzed	Dil Fac
Method: WDNR GRO - GC VOLAT Analyte	Result	Qualifier Qualifier	RL		mg/kg dry		Prepared 08/31/11 06:25	Analyzed 08/31/11 18:26	Dil Fac
Method: WDNR GRO - GC VOLATA Analyte Gasoline Range Organics Method: 6010B Dry - Metals (ICP)	Result		RL 5.2	2.1	mg/kg dry	ä	Prepared	Analyzed	Dil Fac
Method: WDNR GRO - GC VOLATA Analyte Gasoline Range Organics Method: 6010B Dry - Metals (ICP) Analyte Lead	Result <2.1	Qualifier	RL 0.47	2.1	mg/kg dry Unit	D	Prepared 08/31/11 06:25	Analyzed 08/31/11 18:26 Analyzed	Dil Fa
Method: WDNR GRO - GC VOLATA Analyte Gasoline Range Organics Method: 6010B Dry - Metals (ICP) Analyte Lead Method: WI-DRO Dry - Wisconsin	Result <2.1 Result 2.4 - Diesel Rang	Qualifier	RL 0.47	2.1 MDL 0.23	mg/kg dry Unit mg/Kg dry	D	Prepared 08/31/11 06:25 Prepared 08/31/11 16:45	Analyzed 08/31/11 18:26 Analyzed 09/01/11 16:44	Dil Fac
Method: WDNR GRO - GC VOLATA Analyte Gasoline Range Organics Method: 6010B Dry - Metals (ICP) Analyte Lead Method: WI-DRO Dry - Wisconsin Analyte	Result <2.1 Result 2.4 - Diesel Rang Result	Qualifier e Organics	RL 5.2 RL 0.47 (GC)	2.1 MDL 0.23	mg/kg dry Unit mg/Kg dry	<u>D</u>	Prepared 08/31/11 06:25	Analyzed 08/31/11 18:26 Analyzed	Dil Fa
Method: WDNR GRO - GC VOLATA Analyte Gasoline Range Organics Method: 6010B Dry - Metals (ICP) Analyte	Result <2.1 Result 2.4 - Diesel Rang Result	Qualifier e Organics Qualifier J	RL 5.2 RL 0.47 (GC) RL	2.1 MDL 0.23	mg/kg dry Unit mg/Kg dry Unit	D ::	Prepared 08/31/11 06:25 Prepared 08/31/11 16:45 Prepared	Analyzed 08/31/11 18:26 Analyzed 09/01/11 16:44 Analyzed	Dil Fac Dil Fac Dil Fac Dil Fac Dil Fac

Client Sample ID: B-2 6-7'

Date Collected: 08/29/11 10:20

Date Received: 08/30/11 08:30

Lab Sample ID: WUH0883-02

Matrix: Soil

Percent Solids: 93.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<27		110	27	ug/kg dry	- 2	08/31/11 06:25	08/31/11 19:00	1.0
Ethylbenzene	<27		110	27	ug/kg dry	¤	08/31/11 06:25	08/31/11 19:00	1.0
Methyl tert-Butyl Ether	<27		110	27	ug/kg dry	÷	08/31/11 06:25	08/31/11 19:00	1.0
Naphthalene	<27		110	27	ug/kg dry	奈	08/31/11 06:25	08/31/11 19:00	1.0
Toluene	<27		110	27	ug/kg dry	**	08/31/11 06:25	08/31/11 19:00	1.0
1,2,4-Trimethylbenzene	<27		110	27	ug/kg dry	Ċŧ	08/31/11 06:25	08/31/11 19:00	1.0
1,3,5-Trimethylbenzene	<27		110	27	ug/kg dry	Ť	08/31/11 06:25	08/31/11 19:00	1.0
Xylenes, total	<80		320	80	ug/kg dry	ŵ	08/31/11 06:25	08/31/11 19:00	1.0
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		80 - 120				08/31/11 06:25	08/31/11 19:00	1.0
Method: WDNR GRO - GC V	OLATILES								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<2.1	,	5.3	2.1	mg/kg dry	32	08/31/11 06:25	08/31/11 19:00	1.0

Client Sample Results

Client: MSA Professional Services Inc.

Project/Site: 218043

TestAmerica Job ID: WUH0883

Client Sample ID: B-2 6-7'

Date Collected: 08/29/11 10:20 Date Received: 08/30/11 08:30 Lab Sample ID: WUH0883-02

Matrix: Soil

Percent Solids: 93.8

Method: 6010B Dry - Metals (ICP Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.9	1959E-16-1	0.50	0.24	mg/Kg dry	Ö	08/31/11 16:45	09/01/11 17:05	1
Method: WI-DRO Dry - Wisconsi Analyte		je Organic Qualifier	s (GC)	MDL	Unit	D	Prepared	Analyzed	2m, 13 pm.
Diesel Range Organics [C10-C28]	1.7	J	3.8			- ō	09/01/11 07:42	09/01/11 15:15	Dil Fac
Surrogate n-Nonane	% Recovery	Qualifier	<i>Limits</i> 44 - 148				Prepared 09/01/11 07:42	Analyzed 09/01/11 15:15	Dil Fac

Client Sample ID: B-3 10-12'

Date Collected: 08/29/11 10:50 Date Received: 08/30/11 08:30 Lab Sample ID: WUH0883-03

Matrix: Soil

Percent Solids: 96.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<26		100	26	ug/kg dry	Ů.	08/31/11 06:25	08/31/11 19:33	1.
Ethylbenzene	<26		100	26	ug/kg dry	÷	08/31/11 06:25	08/31/11 19:33	1.0
Methyl tert-Butyl Ether	<26		100	26	ug/kg dry	ij.	08/31/11 06:25	08/31/11 19:33	1.0
Naphthalene	<26		100	26	ug/kg dry	×	08/31/11 06:25	08/31/11 19:33	1.0
Toluene	<26		100	26	ug/kg dry	-O	08/31/11 06:25	08/31/11 19:33	1.0
1,2,4-Trimethylbenzene	<26		100	26	ug/kg dry	o-	08/31/11 06:25	08/31/11 19:33	1.0
1,3,5-Trimethylbenzene	<26		100	26	ug/kg dry	Ø	08/31/11 06:25	08/31/11 19:33	1.0
Xylenes, total	<78		310	78	ug/kg dry	×	08/31/11 06:25	08/31/11 19:33	1.0
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		00 (05						Dirac
			80 - 120				08/31/11 06:25	08/31/11 19:33	1.6
			80 - 120				08/31/11 06:25	08/31/11 19:33	1.0
Method: WDNR GRO - GC VOLA Analyte	ATILES Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Method: WDNR GRO - GC VOLA Analyte	ATILES	Qualifier			Unit mg/kg dry	<u>D</u>			Dil Fac
Method: WDNR GRO - GC VOLA Analyte Gasoline Range Organics Method: 6010B Dry - Metals (ICP	ATILES Result <2.1	Qualifier	RL				Prepared	Analyzed	Dil Fac
Method: WDNR GRO - GC VOLA Analyte Gasoline Range Organics Method: 6010B Dry - Metals (ICP	Result <2.1	Qualifier Qualifier	RL		mg/kg dry		Prepared 08/31/11 06:25	Analyzed 08/31/11 19:33	Dil Fac 1.0
Method: WDNR GRO - GC VOLA Analyte Gasoline Range Organics Method: 6010B Dry - Metals (ICP Analyte	Result <2.1		RL 5.2	2.1	mg/kg dry	- -	Prepared	Analyzed	Dil Fac
Method: WDNR GRO - GC VOLA Analyte Gasoline Range Organics Method: 6010B Dry - Metals (ICP Analyte Lead	Result <2.1 P) Result 7.1	Qualifier	RL 5.2 RL 0.49	2.1	mg/kg dry Unit	D	Prepared 08/31/11 06:25	Analyzed 08/31/11 19:33 Analyzed	Dil Fac
Method: WDNR GRO - GC VOLA Analyte Gasoline Range Organics Method: 6010B Dry - Metals (ICF Analyte Lead Method: WI-DRO Dry - Wisconsi	Result <2.1 P) Result 7.1 n - Diesel Rang	Qualifier	RL 5.2 RL 0.49	2.1 MDL 0.24	mg/kg dry Unit mg/Kg dry	<u>D</u>	Prepared 08/31/11 06:25 Prepared 08/31/11 16:45	Analyzed 08/31/11 19:33 Analyzed 09/01/11 17:11	Dil Fac Dil Fac
Method: WDNR GRO - GC VOLA Analyte Gasoline Range Organics Method: 6010B Dry - Metals (ICF Analyte Lead Method: WI-DRO Dry - Wisconsi Analyte	Result <2.1 P) Result 7.1 n - Diesel Rang	Qualifier e Organics Qualifier	RL 5.2 RL 0.49 (GC)	2.1 MDL 0.24	mg/kg dry Unit mg/Kg dry	D	Prepared 08/31/11 06:25	Analyzed 08/31/11 19:33 Analyzed	Dil Fac
Method: WDNR GRO - GC VOLA Analyte Gasoline Range Organics Method: 6010B Dry - Metals (ICP Analyte	Result <2.1 P) Result 7.1 n - Diesel Rang Result	Qualifier e Organics Qualifier J	RL 5.2 RL 0.49 (GC)	2.1 MDL 0.24	mg/kg dry Unit mg/Kg dry Unit	<u>D</u>	Prepared 08/31/11 06:25 Prepared 08/31/11 16:45 Prepared	Analyzed 08/31/11 19:33 Analyzed 09/01/11 17:11 Analyzed	1

Client Sample ID: B-1 6-8'

Date Collected: 08/29/11 09:30 Date Received: 08/30/11 08:30

3-1 6-8' Lab Sample ID: WUH0883-04

Matrix: Soil

Percent Solids: 89.2

Method: SW 8021 - GC VOLATILES	3								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Díl Fac
Benzene	<28		110	28	ug/kg dry	$\overline{\alpha}$	08/31/11 06:25	08/31/11 20:06	1.0
Ethylbenzene	<28		110	28	ug/kg dry	ä	08/31/11 06:25	08/31/11 20:06	1.0

Client Sample Results

Client: MSA Professional Services Inc.

Project/Site: 218043

TestAmerica Job ID: WUH0883

Client Sample ID: B-1 6-8'

Date Collected: 08/29/11 09:30 Date Received: 08/30/11 08:30 Lab Sample ID: WUH0883-04

Matrix: Soil

Percent Solids: 89.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-Butyl Ether	<28		110	28	ug/kg dry	Ü	08/31/11 06:25	08/31/11 20:06	1.0
Naphthalene	<28		110	28	ug/kg dry	456	08/31/11 06:25	08/31/11 20:06	1.0
Toluene	<28		110	28	ug/kg dry	Ģ	08/31/11 06:25	08/31/11 20:06	1.0
1,2,4-Trimethylbenzene	<28		110	28	ug/kg dry	Ħ	08/31/11 06:25	08/31/11 20:06	1.0
1,3,5-Trimethylbenzene	<28		110	28	ug/kg dry	9	08/31/11 06:25	08/31/11 20:06	1.0
Xylenes, total	<84		340	84	ug/kg dry	়	08/31/11 06:25	08/31/11 20:06	1.0
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Díl Fac
4-Bromofluorobenzene	100		80 - 120				08/31/11 06:25	08/31/11 20:06	1.0
Method: WDNR GRO - GC V	OLATILES								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<2.2		5.6	2.2	mg/kg dry	T.	08/31/11 06:25	08/31/11 20:06	1.0

Client Sample ID: Methanol Blank

Date Collected: 08/29/11 00:00 Date Received: 08/30/11 08:30 Lab Sample ID: WUH0883-05

Matrix: Soil

Method: SW 8021 - GC VOL	ATII EQ								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<25		100	25	ug/kg wet		08/31/11 06:25	08/31/11 17:20	1.0
Ethylbenzene	<25		100	25	ug/kg wet		08/31/11 06:25	08/31/11 17:20	1.0
Methyl tert-Butyl Ether	<25		100	25	ug/kg wet		08/31/11 06:25	08/31/11 17:20	1.0
Naphthalene	<25		100	25	ug/kg wet		08/31/11 06:25	08/31/11 17:20	1.0
Toluene	<25		100	25	ug/kg wet		08/31/11 06:25	08/31/11 17:20	
1,2,4-Trimethylbenzene	<25		100	25	ug/kg wet		08/31/11 06:25	08/31/11 17:20	1.0
1,3,5-Trimethylbenzene	<25		100	25	ug/kg wet		08/31/11 06:25	08/31/11 17:20	1.0
Xylenes, total	<75		300		ug/kg wet		08/31/11 06:25	08/31/11 17:20	1.0 1.0
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		80 - 120				08/31/11 06:25	08/31/11 17:20	1.0
Method: WDNR GRO - GC V	OLATILES								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<2.0		5.0	2.0	mg/kg wet		08/31/11 06:25	08/31/11 17:20	1.0

Surrogate Summary

Client: MSA Professional Services Inc.

Project/Site: 218043

TestAmerica Job ID: WUH0883

Matrix: Soil Prep Type: Total

Percent Surrogate Recovery (Acceptance Limi	ts)
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i de la companya de l		BF B
Lab Sample ID	Client Sample ID	(80-120)
WUH0883-01	B-1 10-11'	99
WUH0883-02	B-2 6-7'	100
WUH0883-03	B-3 10-12'	100
WUH0883-04	B-1 6-8'	100
WUH0883-05	Methanol Blank	99

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method: SW 8021 - GC VOLATILES

Matrix: Solid/Soil Prep Type: Total

Percent Surrogate Recovery (Acceptance Limits)

		BFB
Lab Sample ID	Client Sample ID	(80-120
11H0413-BLK1	Method Blank	100
11H0413-BS1	Lab Control Sample	99
11H0413-BSD1	Lab Control Sample Dup	102
11H0413-BS1	Lab Control Sample	99

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method: WI-DRO Dry - Wisconsin - Diesel Range Organics (GC)

Matrix: Soil Prep Type: Total

Percent Surrogate Recovery (Acceptance Limits)

			Percent Surrogate Recovery (Acceptance Limit
		C9	
Lab Sample ID	Client Sample ID	(44-148)	
124295-3	Method Blank	81	and the second s
124295-4	Lab Control Sample	79	
124295-8	Lab Control Sample Dup	77	
WUH0883-01	B-1 10-11'	70	
WUH0883-02	B-2 6-7'	75	
WUH0883-03	B-3 10-12'	70	
Surrogate Legend			

C9 = n-Nonane

QC Sample Results

Client: MSA Professional Services Inc.

Project/Site: 218043

TestAmerica Job ID: WUH0883

Method: SW 8021 - GC VOLATILES

Lab Sample ID: 11H0413-BLK1

Matrix: Solid/Soil

Analysis Batch: U001095

Client Sample ID: Method Blank

Prep Type: Total

Prep Batch: 11H0413 P

	Blank	Blank						•	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<25		100	25	ug/kg wet		08/31/11 06:25	08/31/11 12:44	1.00
Ethylbenzene	<25		100	25	ug/kg wet		08/31/11 06:25	08/31/11 12:44	1.00
Methyl tert-Butyl Ether	<25		100	25	ug/kg wet		08/31/11 06:25	08/31/11 12:44	1.00
Naphthalene	38.1	J	100	25	ug/kg wet		08/31/11 06:25	08/31/11 12:44	1.00
Toluene	<25		100	25	ug/kg wet		08/31/11 06:25	08/31/11 12:44	1.00
1,2,4-Trimethylbenzene	<25		100		ug/kg wet		08/31/11 06:25	08/31/11 12:44	1.00
1,3,5-Trimethylbenzene	<25		100		ug/kg wet		08/31/11 06:25	08/31/11 12:44	1.00
Xylenes, total	<75		300		ug/kg wet		08/31/11 06:25	08/31/11 12:44	1.00

Blank Blank

-	Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	4-Bromofluorobenzene	100		80 - 120	• • •	08/31/11 12:44	

Lab Sample ID: 11H0413-BS1

Matrix: Solid/Soil

Analysis Batch: U001095

Client Sample ID: Lab Control Sample

Prep Type: Total Prep Batch: 11H0413_P

	Spike	LCS	LCS				% Rec.
Analyte	Added	Result	Qualifier L	Jnit	D	% Rec	Limits
Benzene	5000.0	4800	t.	ıg/kg		96	80 - 120
Ethylbenzene	5000.0	4650	U	ıg/kg		93	80 - 120
Methyl tert-Butyl Ether	5000.0	4540	ŧ	ıg/kg		91	80 - 120
Naphthalene	5000.0	4180	u	g/kg		84	80 - 120
Toluene	5000.0	4660	u	g/kg		93	80 - 120
1,2,4-Trimethylbenzene	5000.0	4300	u	g/kg		86	80 _ 120
1,3,5-Trimethylbenzene	5000.0	4620	и	g/kg		92	80 - 120
Xylenes, total	15000	13900		g/kg		93	80 _ 120

LCS LCS

Surrogate	% Recovery	Qualifier	Limits
4-Bromofluorabenzene	99		80 - 120

Lab Sample ID: 11H0413-BSD1

Matrix: Solid/Soil

Analysis Batch: U001095

Client Sample ID: Lab Control Sample Dup

Prep Type: Total

Prep Batch: 11H0413_P

						. rep water. 11110		#13_F	
	Spike	LCS Dup	LCS Dup				% Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	% Rec	Limits	RPD	Limit
Benzene	5000.0	4710	***************************************	ug/kg		94	80 - 120	2	20
Ethylbenzene	5000.0	4550		ug/kg		91	80 - 120	2	20
Methyl tert-Butyl Ether	5000.0	4580		ug/kg		92	80 - 120	0.8	20
Naphthalene	5000.0	4070		ug/kg		81	80 - 120	3	20
Toluene	5000.0	4620		ug/kg		92	80 - 120	0.9	20
1,2,4-Trimethylbenzene	5000.0	4070		ug/kg		81	80 - 120	6	20
1,3,5-Trimethylbenzene	5000.0	4420		ug/kg		88	80 - 120	5	20
Xylenes, total	15000	13600		ug/kg		91	80 - 120	2	20

LCS Dup LCS Dup

Surrogate	% Recovery	Qualifier	Limits
4-Bromofluorobenzene	102	101-101-1-1-101-	80 - 120

QC Sample Results

Client: MSA Professional Services Inc.

Project/Site: 218043

TestAmerica Job ID: WUH0883

Lab Sample ID: 11H0413-BLK1									A17			
Matrix: Solid/Soil									Client	Sample ID:		
Analysis Batch: U001095										Prep Batc		e: Tota
	Blar	nk Blank								Lieh parc	n: Tim	0413_
Analyte	Resu	ılt Qualifier		RL		/IDL Unit		D	Prepared	Analyz	ed	Dil Fa
Gasoline Range Organics	<2	.0		5.0		2.0 mg/kg	wet	0	8/31/11 06:2			1.00
Lab Sample ID: 11H0413-BS1								Clie	nt Sample	e ID: Lab Co	ntrol !	Samol
Matrix: Solid/Soil	•											e: Tota
Analysis Batch: U001095										Prep Batch		
Amalista			Spike		LCS	LCS				% Rec.		· · · · · · · · ·
Analyte Gasoline Range Organics			Added			Qualifier	Unit		D % Rec	Limits		
Gasonie Range Organics			50.000		49.6		mg/kg		99	80 - 120		E-ross of the construction
Lab Sample ID: 11H0413-BSD1							Clie	nt Sa	imple ID: I	Lab Control	Samp	le Dur
Matrix: Solid/Soil												: Total
Analysis Batch: U001095										Prep Batch	ı: 11H()413_P
Analyte			Spike		-	LCS Dup				% Rec.		RPD
Gasoline Range Organics	6 -4 1 1 1 1 1 1	9 1	Added 50.000			Qualifier	Unit		D % Rec	Limits	RPD	Limit
			30,000		48.0		mg/kg		96	80 - 120	3	20
Method: 6010B Dry - Metals	(ICP)								- No. 107 March 19 19 19 19 19 19 19 19 19 19 19 19 19			
Lab Sample ID: 124360-17					1717 PP MALLE Blad Aller Willed					***************************************		
Matrix: Soil									Client S	ample ID: M		
Analysis Batch: 124216												: Total
Tanana and Tanana	Blank	Blank								Prep Batc	h: 124	216_P
Analyte		Qualifier		RL	M	OL Unit	,)	Dunman			
Lead	<0.24		- 17 mm - 17 m	0.50	-	24 mg/Kg			Prepared 31/11 16:45	Analyze 09/01/11 15		Dil Fac
Lab Sample ID: 124360-18								OII.				
Matrix: Soil								Clien	it Sample	ID: Lab Cor		
Analysis Batch: 124216											Type:	
-			Spike		LCS	LCS				Prep Batcl	h: 1242	216_P
Analyte			Added			Qualifier	Unit		D % Rec	% Rec.		
Lead	***	***************************************	10.0		10.4		mg/Kg dr		104	80 - 120		
lothod: WI DDO Day Wissa												
lethod: WI-DRO Dry - Wisco	nsin - Diese	el Kange	Organi	cs (G	3C)	***************************************						
Lab Sample ID: 124295-3									Client Sa	mple ID: Me	ethod I	Blank
Vlatrix: Soil											Туре:	
										Prep Batch		
Analysis Batch: 124263												_
Analysis Batch: 124263	Blank						n					
Analysis Batch: 124263	Result	Qualifier	y <u>.</u>	RL		L Unit	D	***********	repared	Analyzed		Dil Fac
Analysis Batch: 124263			, <u>.</u>	4.0		L Unit 5 mg/Kg d		***********	repared 11/11 07:42	Analyzed 09/01/11 13:		Dil Fac
	Result	Qualifier	·					***********				*************
Analysis Batch: 124263 Analyte	Result <1.5	Qualifier Blank	Limits	4.0				09/0			30	*************

QC Sample Results

Client: MSA Professional Services Inc.

Project/Site: 218043

TestAmerica Job ID: WUH0883

Method: WI-DRO Dry - Wisconsin - Diesel Range Organics (GC) (Continued)	١
- Total Mou	,

Lab Sample ID: 124295-4 Client Sample ID: Lab Control Sample Matrix: Soil Prep Type: Total Analysis Batch: 124263 Prep Batch: 124263_P Spike LCS LCS % Rec. Analyte Added Result Qualifier Unit % Rec Limits Diesel Range Organics 20.0 19.5 mg/Kg dry 97 70 - 120 [C10-C28] LCS LCS Surrogate % Recovery Qualifier Limits n-Nonane 79 44 - 148 Lab Sample ID: 124295-8 Client Sample ID: Lab Control Sample Dup Matrix: Soil Prep Type: Total Analysis Batch: 124263 Prep Batch: 124263_P LCS Dup LCS Dup Spike % Rec. Analyte Added Result Qualifier Unit Limits RPD Limit Diesel Range Organics 20.0 19.2 mg/Kg dry 96 70 - 120 1 [C10-C28]

44 - 148

LCS Dup LCS Dup Surrogate % Recovery Qualifier Limits n-Nonane 77

QC Association Summary

Client: MSA Professional Services Inc.

Project/Site: 218043

TestAmerica Job ID: WUH0883

GC Volatiles

Analysis	Batch:	U001095
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H0413-BLK1	Method Blank	Total	Solid/Soil	WDNR GRO	11H0413 P
11H0413-BLK1	Method Blank	Total	Solid/Soil	SW 8021	11H0413_P
11H0413-BS1	Lab Control Sample	Total	Solid/Soil	WDNR GRO	11H0413_P
11H0413-BS1	Lab Control Sample	Total	Solid/Soil	SW 8021	11H0413_F
11H0413-BSD1	Lab Control Sample Dup	Total	Solid/Soil	WDNR GRO	11H0413_P
11H0413-BSD1	Lab Control Sample Dup	Total	Solid/Soil	SW 8021	11H0413_P
WUH0883-01	B-1 10-11'	Total	Soil	WDNR GRO	11H0413_P
WUH0883-01	B-1 10-11'	Total	Soil	SW 8021	11H0413_F
WUH0883-02	B-2 6-7'	Total	Soil	WDNR GRO	11H0413_P
WUH0883-02	B-2 6-7'	Total	Soil	SW 8021	11H0413_P
WUH0883-03	B-3 10-12'	Total	Soil	WDNR GRO	11H0413 P
WUH0883-03	B-3 10-12'	Total	Soil	SW 8021	11H0413_P
WUH0883-04	B-1 6-8'	Total	Soil	WDNR GRO	11H0413_P
WUH0883-04	B-1 6-8'	Total	Soil	SW 8021	11H0413_P
WUH0883-05	Methanol Blank	Total	Soil	WDNR GRO	11H0413_F
WUH0883-05	Methanol Blank	Total	Soil	SW 8021	11H0413_F

Prep Batch: 11H0413_P

Lab Sample ID	Client Sample ID	Prep Type	Matríx	Method	Prep Batch
11H0413-BLK1	Method Blank	Total	Solid/Soil	*** DEFAULT	1 rep batch
11H0413-BS1	Lab Control Sample	Total	Solid/Soil	PREP *** *** DEFAULT	
11H0413-BSD1	Lab Control Sample Dup	Total	Solid/Soil	PREP *** *** DEFAULT	
WUH0883-01	B-1 10-11'	Total	Soil	PREP *** *** DEFAULT	
WUH0883-02	B-2 6-7'	Total	Soil	PREP *** *** DEFAULT	
WUH0883-03	B-3 10-12'	Total	Soil	PREP *** *** DEFAULT	
WUH0883-04	B-1 6-8'	Total	Soil	PREP *** *** DEFAULT	
WUH0883-05	Methanol Blank	Total	Soil	PREP *** *** DEFAULT PREP ***	

WetChem

Analysis Batch: 1110021

3,000					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11I0021-DUP1	Duplicate	Total	Solid/Soil	SM 2540G	110021 P
WUH0883-01	B-1 10-11'	Total	Soil	SM 2540G	11I0021 P
WUH0883-02	B-2 6-7'	Total	Soil	SM 2540G	
WUH0883-03	B-3 10-12'	Total	Soil		11l0021_P
WUH0883-04	B-1 6-8'			SM 2540G	1110021_P
	5-1 0-0	Total	Soil	SM 2540G	11I0021 P

Prep Batch: 11/0021_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11l0021-DUP1	Duplicate	Total	Solid/Soil	% Solids	
WUH0883-01	B-1 10-11'	Total	Soil	% Solids	
WUH0883-02	B-2 6-7'	Total	Soil	% Solids	
WUH0883-03	B-3 10-12'	Total	Soil	% Solids	
WUH0883-04	B-1 6-8'	Total	Soil	% Solids	

QC Association Summary

Client: MSA Professional Services Inc.

Project/Site: 218043

TestAmerica Job ID: WUH0883

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Analysis Batch: 12	4173				THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	D D
WUH0883-01	B-1 10-11'	Total	Soil	Moisture	Prep Batcl
WUH0883-02	B-2 6-7'	Total	Soil	Moisture	124173_F
WUH0883-03	B-3 10-12'	Total	Soil	Moisture	124173_F 124173_F
Analysis Batch: 124	1216				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
124360-17	Method Blank	Total	Soil	6010B Dry	124216_F
124360-18	Lab Control Sample	Total	Soil	6010B Dry	124216_F
WUH0883-01	B-1 10-11'	Total	Soil	6010B Dry	124216_F
WUH0883-02	B-2 6-7'	Total	Soil	6010B Dry	124216_P
WUH0883-03	B-3 10-12'	Total	Soil	6010B Dry	124216_P
Analysis Batch: 124	263				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
124295-3	Method Blank	Total	Soil	WI-DRO Dry	124263_P
124295-4	Lab Control Sample	Total	Soil	WI-DRO Dry	124263_P
124295-8	Lab Control Sample Dup	Total	Soil	WI-DRO Dry	
WUH0883-01	B-1 10-11'	Total	Soil	WI-DRO Dry	124263_P
WUH0883-02	B-2 6-7'	Total	Soil	WI-DRO Dry	124263_P
WUH0883-03	B-3 10-12'	Total	Soil	WI-DRO Dry	124263_P 124263_P
Prep Batch: 124173_	.P				12-7200_1
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prop Patch
WUH0883-01	B-1 10-11'	Total	Soil	NA	Prep Batch
WUH0883-02	B-2 6-7'	Total	Soil	NA	
WUH0883-03	B-3 10-12'	Total	Soil	NA	
rep Batch: 124216_	P				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
124360-17	Method Blank	Total	Soil	3050B	op oaten
124360-18	Lab Control Sample	Total	Soil	3050B	
WUH0883-01	B-1 10-11'	Total	Soil	3050B	
WUH0883-02	B-2 6-7'	Total	Soil	3050B	
WUH0883-03	B-3 10-12'	Total	Soil	3050B	
rep Batch: 124263_I	•				
_ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
124295-3	Method Blank	Total	Soil	WI DRO PREP	TOP Daton
24295-4	Lab Control Sample	Total	Soil	WI DRO PREP	
24295-8	Lab Control Sample Dup	Total	Soil	WI DRO PREP	
VUH0883-01	B-1 10-11'	Total	Soil	WI DRO PREP	
VUH0883-02	B-2 6-7'	Total	Soil	WI DRO PREP	
10110000-02					

Lab Chronicle

Client: MSA Professional Services Inc.

Project/Site: 218043

TestAmerica Job ID: WUH0883

Client Sample ID: B-1 10-11'

Date Collected: 08/29/11 09:40 Date Received: 08/30/11 08:30 Lab Sample ID: WUH0883-01

Matrix: Soil

Percent Solids: 96.4

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	Or Analyzed	Analyst	Lab
Total	Prep	*** DEFAULT PREP ***		1.0	11H0413_P	08/31/11 06:25	ABA	TAL WT
Total	Analysis	WDNR GRO		1.0	U001095	08/31/11 18:26	ABA	TAL WT
Total	Analysis	SW 8021		1.0	U001095	08/31/11 18:26	ABA	TAL WT
Total	Prep	% Solids		1.0	1110021_P	09/01/11 09:45	SJF	TAL WT
Total	Analysis	SM 2540G		1.0	1110021	09/02/11 16:23	SJF	TAL WT
Γotal	Prep	3050B			124216_P	08/31/11 16:45		TAL CHI
Total	Analysis	6010B Dry		1	124216	09/01/11 16:44	TDS	TAL CHI
otal	Analysis	Moisture		1	124173	08/31/11 12:39	CMV	TAL CHI
Total	Prep	NA			124173_P	08/31/11 12:39		TAL CHI
Total	Prep	WI DRO PREP			124263_P	09/01/11 07:42		TAL CHI
Fotal	Analysis	WI-DRO Dry		1	124263	09/01/11 14:40	BDM	TAL CHI

Client Sample ID: B-2 6-7'

Date Collected: 08/29/11 10:20 Date Received: 08/30/11 08:30 Lab Sample ID: WUH0883-02

Matrix: Soil

Percent Solids: 93.8

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	Or Analyzed	Analyst	Lab
Total	Prep	*** DEFAULT PREP ***	#110 com com a gar	1.0	11H0413_P	08/31/11 06:25	ABA	TAL WT
Total	Analysis	WDNR GRO		1.0	U001095	08/31/11 19:00	ABA	TAL WT
Total	Analysis	SW 8021		1.0	U001095	08/31/11 19:00	ABA	TAL WT
Total	Prep	% Solids		1.0	11I0021_P	09/01/11 09:45	SJF	TAL WT
Total	Analysis	SM 2540G		1.0	1110021	09/02/11 16:23	SJF	TAL WT
Total	Prep	3050B			124216_P	08/31/11 16:45		TAL CHI
Total	Analysis	6010B Dry		1	124216	09/01/11 17:05	TDS	TAL CHI
Total	Analysis	Moisture		. 1	124173	08/31/11 12:39	CMV	TAL CHI
Total	Prep	NA			124173_P	08/31/11 12:39		TAL CHI
Total	Prep	WI DRO PREP			124263 P	09/01/11 07:42		TAL CHI
Total	Analysis	WI-DRO Dry		1	124263	09/01/11 15:15	BDM	TAL CHI

Client Sample ID: B-3 10-12'

Date Collected: 08/29/11 10:50 Date Received: 08/30/11 08:30 Lab Sample ID: WUH0883-03

Matrix: Soil

Percent Solids: 96.2

press								creent donus.
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	Or Analyzed	Analyst	Lab
Total	Prep	*** DEFAULT PREP ***		1.0	11H0413_P	08/31/11 06:25	ABA	TAL WT
Total	Analysis	WDNR GRO		1.0	U001095	08/31/11 19:33	ABA	TAL WT
Total	Analysis	SW 8021		1.0	U001095	08/31/11 19:33	ABA	TAL WT
Total	Prep	% Solids		1.0	1110021_P	09/01/11 09:45	SJF	TAL WT
Total	Analysis	SM 2540G		1.0	1110021	09/02/11 16:23	SJF	TAL WT
Total	Prep	3050B			124216_P	08/31/11 16:45		TAL CHI
Total	Analysis	6010B Dry		1	124216	09/01/11 17:11	TDS	TAL CHI
Total	Analysis	Moisture		1	124173	08/31/11 12:39	CMV	TAL CHI
Total	Ргер	NA			124173_P	08/31/11 12:39		TAL CHI
Total	Prep	WI DRO PREP			124263 P	09/01/11 07:42		TAL CHI
Total	Analysis	WI-DRO Dry		1	124263	09/01/11 15:51	BDM	TAL CHI

Lab Chronicle

Client: MSA Professional Services Inc.

Project/Site: 218043

TestAmerica Job ID: WUH0883

Client Sample ID: B-1 6-8'

Date Collected: 08/29/11 09:30 Date Received: 08/30/11 08:30 Lab Sample ID: WUH0883-04

Matrix: Soil

Doront	Calida	00.0
Percent	ounus:	89.Z

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	*** DEFAULT PREP ***	*	1.0	11H0413_P	08/31/11 06:25	ABA	TAL WT
Total	Analysis	WDNR GRO		1.0	U001095	08/31/11 20:06	ABA	TAL WT
Total	Analysis	SW 8021		1.0	U001095	08/31/11 20:06	ABA	TAL WT
Total	Prep	% Solids		1.0	11(0021_P	09/01/11 09:45	MMM	TAL WT
Total	Analysis	SM 2540G		1.0	1110021	09/02/11 07:32	MMM	TAL WT

Client Sample ID: Methanol Blank

Date Collected: 08/29/11 00:00 Date Received: 08/30/11 08:30 Lab Sample ID: WUH0883-05

Matrix: Soil

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	Or Analyzed	Analyst	Lab
Total	Prep	*** DEFAULT PREP ***		1.0	11H0413_P	08/31/11 06:25	ABA	TAL WT
Total	Analysis	WDNR GRO		1.0	U001095	08/31/11 17:20	ABA	TAL WT
Total	Analysis	SW 8021		1.0	U001095	08/31/11 17:20	ABA	TAL WT

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708) 534-5200
TAL WT = TestAmerica Watertown, 1101 Industrial Drive, Suites 9 & 10, Watertown, WI 53094, TEL 800-833-7036

Certification Summary

Client: MSA Professional Services Inc.

Project/Site: 218043

TestAmerica Job ID: WUH0883

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Watertown	continue to the a consequence of	WI Dept of Agriculture (Micro	_	105-266
TestAmerica Watertown	Illinois	NELAC	5	100453
TestAmerica Watertown	Minnesota	NELAC	NELAC 5	
TestAmerica Chicago	ACLASS	DoD ELAP		ADE-1429
TestAmerica Chicago	ACLASS	ISO/IEC 17025		AT-1428
TestAmerica Chicago	Alabama	State Program	4	40461
TestAmerica Chicago	California	NELAC	9	01132CA
TestAmerica Chicago	Florida	NELAC	4	E871072
TestAmerica Chicago	Georgia	Georgia EPD	4	N/A
TestAmerica Chicago	Georgia	State Program	4	939
TestAmerica Chicago	Hawaii	State Program	9	N/A
TestAmerica Chicago	Illinois	NELAC	5	100201
TestAmerica Chicago	Indiana	State Program	5	C-IL-02
FestAmerica Chicago	lowa	State Program	7	82
TestAmerica Chicago	Kansas	NELAC	7	E-10161
estAmerica Chicago	Kentucky	Kentucky UST	4	66
estAmerica Chicago	Kentucky	State Program	4	90023
estAmerica Chicago	Louisiana	NELAC	6	30720
estAmerica Chicago	Massachusetts	State Program	1	M-IL035
estAmerica Chicago	Mississippi	State Program	4	N/A
estAmerica Chicago	North Carolina	North Carolina DENR	4	291
estAmerica Chicago	Oklahoma	State Program	6	8908
estAmerica Chicago	South Carolina	State Program	4	77001
estAmerica Chicago	Texas	NELAC	6	T104704252-09-TX
estAmerica Chicago	USDA	USDA		P330-09-00027
estAmerica Chicago	Virginia	NELAC Secondary AB	3	460142
estAmerica Chicago	Wisconsin	State Program 5		999580010
estAmerica Chicago Wyoming S		State Program	8	8TMS-Q

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: MSA Professional Services Inc.

Project/Site: 218043

TestAmerica Job ID: WUH0883

Method	Method Description	Protocol	Laboratory
SW 8021	GC VOLATILES		
WDNR GRO	GC VOLATILES		TAL WT
SM 2540G	General Chemistry Parameters		TAL WT
6010B Dry	Metals (ICP)		
Moisture	Percent Moisture		TAL CHI
WI-DRO Dry			TAL CHI
WI-DRO DIY	Wisconsin - Diesel Range Organics (GC)		TAL CHI

Protocol References:

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708) 534-5200
TAL WT = TestAmerica Watertown, 1101 Industrial Drive, Suites 9 & 10, Watertown, WI 53094, TEL 800-833-7036

Sample Summary

Client: MSA Professional Services Inc.

Project/Site: 218043

TestAmerica Job ID: WUH0883

Transport on transport of the state of the s	THE RESERVE AND ADDRESS OF THE RESERVE AND ADDRESS OF THE PARTY AND ADD	PORES. REMAINING ACADAMACHAINE MANAGEMENT CONTRACTOR CO	and the same of th	
Lab Sample ID	Client Sample ID	Matrix	Collected	Received
WUH0883-01	B-1 10-11'	Soil	08/29/11 09:40	08/30/11 08:30
WUH0883-02	B-2 6-7'	Soil	08/29/11 10:20	08/30/11 08:30
WUH0883-03	B-3 10-12'	Soil	08/29/11 10:50	08/30/11 08:30
WUH0883-04	B-1 6-8'	Sait	08/29/11 09:30	08/30/11 08:30
WUH0883-05	Methanoi Blank	Soil	08/29/11 00:00	08/30/11 08:30

TestAmerica Watertown Division 602 Commerce Drive

Phone 920-261-1660 or 800-833-7036 Fax 920-261-8120

To assist us in using the proper analytical methods,

is easier as in using the proper analytical methods, is this work being conducted for regulatory purposes? Compliance Monitoring	Sill Colt for the cold of the	J. Sungit	2 140d 2	C. C. C. C. C. C. C. C. C. C. C. C. C. C	Janue Frank Lort	A CONTRACTOR A	ישורי ביש נפפר	:#Od	jor:	QC Deliverables		Level 3	Other:		KEMARKS								LABORATORY COMMENTS:	intrado temp:	Rec Lab Temp:	Bottles Supplied by TestAmerica: O		Wednod of Snipment + JUNEAR
is this worl		Project Name:	Project #:	Site/Location ID:	Report To:	Invoice To:	Quote #:		Analyze For:																20 20 200 200 200 200 200 200 200 200 20	Time.		i i i i i c
	•	Proj	***	Site/Lc	1 *****	ı	l	*******	2	1dm		200	P = 1/0	787	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	 		\vdash							11/08/1	Date:	Date	
Watertown, WI 53094 Fax 920-261-8120	SA Professional Services client#	230 South Blud.	Beraboo, W 53913	Jayne Erglebert	608-355-8860 Fax: 608=356-377	ebert.	English T		IX Preservation & # of Configurers	ejle Natio Vilosilio Vilos	Drinkii S-8-8 Speci	oled DW - C = C DW - Soled DW - C = C DW - C = C DW - C = C DW -	Samp, or pilete	1) Juper (946 GN G 12 x	12 ×	×	\vdash	-						Date 21- 12:10 Received By: (Or, Wry	Date: Time: Received By:	Date: Time: Received By:	
THE LEADER IN ENVIRONMENTAL TESTING	M S A				f		Sampler Signature:	E-mail address: en learte	1	Standard K Rush (surcharges may apply)	Date Needed: 9-2-2011	Fax Results: Y N	E-mail: 🚫 N	SAMPLE ID	10-11 10-8	22	15-3 60	13-1 6-8	05 Wethomol Brank			Special Instructions:			Relinquished By Lange Colours	Relinquished By:	Relinquished By:	1

TAL-0020 (1207)

Cooler Receipt Log

Work Order(s): WUHO883 Client Name/Project:	# of Coolers:
1. How did samples arrive? Dunham ☐ Fed-Ex ☐ UPS ☐ TestAmel	rica 🗆 Client 🗆 USPS 🗆 Speedy 🗇
Date/time cooler was opened: 820/1 830 By: L	
Were custody seals intact, signed and dated correctly?	The state of the s
3. TAT (Turn Around Time) SUBCONTRACTED DHO	LD D STANDARD (RUSH)
4. Were samples on ice?	PYes
5. Bottles supplied by Test America?	
6. Number of containers are noted on COC (Chain of Custody) ?	
7. Matrix is identified on COC ?	⊅Yes ☐ No
Did all sample containers arrive in good condition?	DOK
☐ BOD ☐ Bacteria ☐	
☐ BOD ☐ Bacteria ☐ 9. Are there any short hold time tests? (48hrs or less)	
Past Hold?	
24 hours or less 48 hours	7 days
Coliform Bacteria Fecal (orange) . BOD CBOD	Aqueous Organic Prep BNA 8270 DRO (HCL amber)
Total Bacteria (blue)	Herbs PAH (NT amber)
SPC (Standard Plate Count – yellow) OrthoPhosphate or	3 PCBs Pest/PCBs PNA
HPC (Hydrophilic Plate Count - yellow) OrthoPhosphorus	TS (Total Solids) TDS
T. Residual Chlorine (NT bottle) CR3 or CR6 (Hex Chromlum VI - NT bottle) Sulfite Sulfite	TSS (Total Suspended Solids) Sulfide
Dissolved Oxygen (DO) Turbidity	Volatile Solids
10. Ops Mgr, PM or Analyst informed of short hold?Who	When
	,□No □ Yes
·	DNo DYes
12. Is the date and time of collection recorded on COC? Date	100,000
Time	
13. Are dissolved parameters field filtered or being filtered in the lab?	
14. Are sample volumes adequate and preservatives correct for test requested? Volumes	ol ØYes 🗇 No
Preservatives	····, ··· · · · · · · · · · · · · · · ·
15. Were correct containers used for the analysis requested?	
16. Do VOC samples have air bubbles >6mm?	· · · · · · · · · · · · · · · · · · ·
17. Is an aqueous Trip Blank included?	
18. If received, how were DRO soil samples received?	
19. Is a Methanol Trip Blank included?	
20. How were VOC soils received? Methanol Sodium Bisulfate Packed Jar	
* ☐ Within 48hrs of sampling ☐ Past 48hrs of sampling ☐ Frozen ☐ Not Frozen	
21. Were all sample containers received and match the Sample IDs listed on COC?.	
If any changes are made to this Work Order after Login, or if comments must be ma	de regarding this cooler, explain them below:
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