

(04-16-561930)

**Endsley, Erin A - DNR**

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**From:** Jon Hinkel <jhinkel@msa-ps.com>  
**Sent:** Tuesday, May 13, 2014 9:00 PM  
**To:** joe.radtke@gmail.com; Endsley, Erin A - DNR  
**Subject:** Barkers Island Marina Lab Results  
**Attachments:** Lab Report -- soil samples B-1 (1') and B-1 (3.5').pdf

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

*NARR 09-16-561929*

Good evening Joe and Erin –

Attached you'll find the soil sample lab analysis report I just received from Pace Analytical. I'll be in the field tomorrow; should be back by late afternoon.

Thank you,

Jon --



**Jon Hinkel** | Senior Project Hydrogeologist  
MSA Professional Services, Inc.  
(218) 722-3915



May 13, 2014

Mr. Jon Hinkel  
MSA Professional Services  
301 W 1st Street  
Suite 408  
Duluth, MN 55802

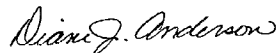
RE: Project: R-16292000 AST Site  
Pace Project No.: 10265983

Dear Mr. Hinkel:

Enclosed are the analytical results for sample(s) received by the laboratory on May 06, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Diane J. Anderson  
diane.anderson@pacelabs.com  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: R-16292000 AST Site

Pace Project No.: 10265983

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### Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alabama Certification #40770

Alabama Certification #40770

Alaska Certification #: UST-078

Alaska Certification #MN00064

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida/NELAP Certification #: E87605

Guam Certification #: Pace

Georgia Certification #: 959

Idaho Certification #: MN00064

Hawaii Certification #MN00064

Illinois Certification #: 200011

Indiana Certification#C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062

Kentucky Dept of Envi. Protection - WW #90062

Louisiana DEQ Certification #: 3086

Louisiana DHH #: LA140001

Maine Certification #: 2013011

Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT0092

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New Jersey Certification #: MN-002

New York Certification #: 11647

North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Saipan (CNMI) #:MP0003

South Carolina #:74003001

Texas Certification #: T104704192

Tennessee Certification #: 02818

Utah Certification #: MN000642013-4

Virginia DGS Certification #: 251

Virginia/VELAP Certification #: Pace

Washington Certification #: C486

Wisconsin Certification #: 999407970

West Virginia Certification #: 382

West Virginia TO-15 Approval

West Virginia DHHR #:9952C

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### SAMPLE SUMMARY

Project: R-16292000 AST Site  
Pace Project No.: 10265983

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
10265983001	B-1 (1')	Solid	05/05/14 15:05	05/06/14 09:03
10265983002	B-1 (3 1/2')	Solid	05/05/14 15:45	05/06/14 09:03

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**SAMPLE ANALYTE COUNT**

Project: R-16292000 AST Site  
Pace Project No.: 10265983

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10265983001	B-1 (1')	WI MOD DRO	MT	2
		WI MOD GRO	MS2	9
		ASTM D2974	JDL	1
10265983002	B-1 (3 1/2')	WI MOD DRO	MT	2
		WI MOD GRO	MS2	9
		ASTM D2974	JDL	1

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## PROJECT NARRATIVE

Project: R-16292000 AST Site  
Pace Project No.: 10265983

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**Method:** WI MOD DRO  
**Description:** WIDRO GCS  
**Client:** MSA Professional Services  
**Date:** May 13, 2014

**General Information:**

2 samples were analyzed for WI MOD DRO. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with WI MOD DRO with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/25013

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- B-1 (1') (Lab ID: 10265983001)
  - n-Triacontane (S)
- B-1 (3 1/2') (Lab ID: 10265983002)
  - n-Triacontane (S)

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: R-16292000 AST Site  
Pace Project No.: 10265983

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**Method:** WI MOD GRO  
**Description:** WIGRO GCV  
**Client:** MSA Professional Services  
**Date:** May 13, 2014

**General Information:**

2 samples were analyzed for WI MOD GRO. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with TPH GRO/PVOC WI ext. with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

Analyte Comments:

QC Batch: GCV/11956

1M: The results are from sample aliquot taken from a jar with headspace. This does not meet method sampling requirements and the data should be considered an estimation

- MS (Lab ID: 1673792)
- a,a,a-Trifluorotoluene (S)

This data package has been reviewed for quality and completeness and is approved for release.

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**ANALYTICAL RESULTS**

Project: R-16292000 AST Site  
 Pace Project No.: 10265983

Sample: B-1 (1') Lab ID: 10265983001 Collected: 05/05/14 15:05 Received: 05/06/14 09:03 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>WIDRO GCS</b>		Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	7220	mg/kg	1790	269	50	05/07/14 13:32	05/08/14 12:38		
<b>Surrogates</b>									
n-Triacontane (S)	0 %		50-150		50	05/07/14 13:32	05/08/14 12:38	638-68-6	S4
<b>WIGRO GCV</b>		Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.							
Benzene	ND	mg/kg	0.066	0.0044	1	05/07/14 14:57	05/09/14 12:08	71-43-2	
Ethylbenzene	0.070	mg/kg	0.066	0.033	1	05/07/14 14:57	05/09/14 12:08	100-41-4	
Gasoline Range Organics	93.1	mg/kg	6.6	3.3	1	05/07/14 14:57	05/09/14 12:08		
Methyl-tert-butyl ether	ND	mg/kg	0.33	0.0072	1	05/07/14 14:57	05/09/14 12:08	1634-04-4	
Toluene	ND	mg/kg	0.066	0.0082	1	05/07/14 14:57	05/09/14 12:08	108-88-3	
1,2,4-Trimethylbenzene	0.76	mg/kg	0.066	0.0098	1	05/07/14 14:57	05/09/14 12:08	95-63-6	
1,3,5-Trimethylbenzene	1.1	mg/kg	0.066	0.0082	1	05/07/14 14:57	05/09/14 12:08	108-67-8	
Xylene (Total)	0.48	mg/kg	0.20	0.10	1	05/07/14 14:57	05/09/14 12:08	1330-20-7	
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	95 %		80-125		1	05/07/14 14:57	05/09/14 12:08	98-08-8	
<b>Dry Weight</b>		Analytical Method: ASTM D2974							
Percent Moisture	22.3 %		0.10	0.10	1		05/07/14 00:00		

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## ANALYTICAL RESULTS

Project: R-16292000 AST Site  
Pace Project No.: 10265983

Sample: B-1 (3 1/2') Lab ID: 10265983002 Collected: 05/05/14 15:45 Received: 05/06/14 09:03 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>WIDRO GCS</b>		Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	2890	mg/kg	759	114	100	05/07/14 13:32	05/08/14 12:45		
<b>Surrogates</b>									
n-Triacontane (S)	0 %		50-150		100	05/07/14 13:32	05/08/14 12:45	638-68-6	S4
<b>WIGRO GCV</b>		Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.							
Benzene	ND	mg/kg	0.067	0.0044	1	05/07/14 14:57	05/09/14 12:28	71-43-2	
Ethylbenzene	ND	mg/kg	0.067	0.033	1	05/07/14 14:57	05/09/14 12:28	100-41-4	
Gasoline Range Organics	98.7	mg/kg	6.7	3.3	1	05/07/14 14:57	05/09/14 12:28		
Methyl-tert-butyl ether	ND	mg/kg	0.33	0.0072	1	05/07/14 14:57	05/09/14 12:28	1634-04-4	
Toluene	ND	mg/kg	0.067	0.0083	1	05/07/14 14:57	05/09/14 12:28	108-88-3	
1,2,4-Trimethylbenzene	1.0	mg/kg	0.067	0.0099	1	05/07/14 14:57	05/09/14 12:28	95-63-6	
1,3,5-Trimethylbenzene	0.95	mg/kg	0.067	0.0083	1	05/07/14 14:57	05/09/14 12:28	108-67-8	
Xylene (Total)	0.53	mg/kg	0.20	0.10	1	05/07/14 14:57	05/09/14 12:28	1330-20-7	
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	89 %		80-125		1	05/07/14 14:57	05/09/14 12:28	98-08-8	
<b>Dry Weight</b>		Analytical Method: ASTM D2974							
Percent Moisture	23.8 %		0.10	0.10	1		05/07/14 00:00		

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### QUALITY CONTROL DATA

Project: R-16292000 AST Site  
Pace Project No.: 10265983

QC Batch: GCV/11956 Analysis Method: WI MOD GRO  
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV  
Associated Lab Samples: 10265983001, 10265983002

METHOD BLANK: 1673788 Matrix: Solid  
Associated Lab Samples: 10265983001, 10265983002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	mg/kg	ND	0.050	05/09/14 07:20	
1,3,5-Trimethylbenzene	mg/kg	ND	0.050	05/09/14 07:20	
Benzene	mg/kg	ND	0.050	05/09/14 07:20	
Ethylbenzene	mg/kg	ND	0.050	05/09/14 07:20	
Gasoline Range Organics	mg/kg	ND	5.0	05/09/14 07:20	
Methyl-tert-butyl ether	mg/kg	ND	0.25	05/09/14 07:20	
Toluene	mg/kg	ND	0.050	05/09/14 07:20	
Xylene (Total)	mg/kg	ND	0.15	05/09/14 07:20	
a,a,a-Trifluorotoluene (S)	%	99	80-125	05/09/14 07:20	

LABORATORY CONTROL SAMPLE & LCSD: 1673789

Parameter	Units	1673790								
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	mg/kg	5	4.4	4.7	88	93	80-120	5	20	
1,3,5-Trimethylbenzene	mg/kg	5	4.4	4.6	89	92	80-120	4	20	
Benzene	mg/kg	5	4.4	4.5	89	90	80-120	.8	20	
Ethylbenzene	mg/kg	5	4.3	4.4	87	87	80-120	.7	20	
Gasoline Range Organics	mg/kg	50	46.1	47.8	92	96	80-120	4	20	
Methyl-tert-butyl ether	mg/kg	5	4.3	4.4	87	89	80-120	2	20	
Toluene	mg/kg	5	4.4	4.4	87	88	80-120	1	20	
Xylene (Total)	mg/kg	15	13.2	13.7	88	91	80-120	4	20	
a,a,a-Trifluorotoluene (S)	%				99	99	80-125			

MATRIX SPIKE SAMPLE: 1673792

Parameter	Units	10265466002					
		Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	mg/kg	ND	7.6	7.4	96	80-120	
1,3,5-Trimethylbenzene	mg/kg	ND	7.6	7.4	97	80-120	
Benzene	mg/kg	ND	7.6	6.8	89	80-120	
Ethylbenzene	mg/kg	ND	7.6	7.3	95	80-120	
Gasoline Range Organics	mg/kg	ND	76.7	74.2	96	80-120	
Methyl-tert-butyl ether	mg/kg	ND	7.6	6.4	83	80-120	
Toluene	mg/kg	ND	7.6	7.0	92	80-120	
Xylene (Total)	mg/kg	ND	23	21.7	95	80-120	
a,a,a-Trifluorotoluene (S)	%				99	80-125 1M	

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**QUALITY CONTROL DATA**

Project: R-16292000 AST Site  
Pace Project No.: 10265983

SAMPLE DUPLICATE: 1673791

Parameter	Units	10265204009 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	mg/kg	ND	ND		20	
1,3,5-Trimethylbenzene	mg/kg	ND	.0081J		20	
Benzene	mg/kg	ND	ND		20	
Ethylbenzene	mg/kg	ND	ND		20	
Gasoline Range Organics	mg/kg	ND	ND		20	
Methyl-tert-butyl ether	mg/kg	ND	ND		20	
Toluene	mg/kg	ND	.024J		20	
Xylene (Total)	mg/kg	ND	ND		20	
a,a,a-Trifluorotoluene (S)	%	101	100	1		

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**QUALITY CONTROL DATA**

Project: R-16292000 AST Site  
 Pace Project No.: 10265983

QC Batch: MPRP/45711      Analysis Method: ASTM D2974  
 QC Batch Method: ASTM D2974      Analysis Description: Dry Weight/Percent Moisture  
 Associated Lab Samples: 10265983001, 10265983002

SAMPLE DUPLICATE: 1673903

Parameter	Units	10266014001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.1	12.1	15	30	

SAMPLE DUPLICATE: 1673904

Parameter	Units	10265776019 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.5	13.5	7	30	

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### QUALITY CONTROL DATA

Project: R-16292000 AST Site  
Pace Project No.: 10265983

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QC Batch: OEXT/25013                      Analysis Method: WI MOD DRO  
QC Batch Method: WI MOD DRO              Analysis Description: WIDRO GCS  
Associated Lab Samples: 10265983001, 10265983002

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METHOD BLANK: 1674305                      Matrix: Solid  
Associated Lab Samples: 10265983001, 10265983002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	mg/kg	ND	10.0	05/08/14 10:38	
n-Triacontane (S)	%	89	50-150	05/08/14 10:38	

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LABORATORY CONTROL SAMPLE & LCSD: 1674306

Parameter	Units	1674307								Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	
Diesel Range Organics	mg/kg	80	64.8	65.4	81	82	70-120	.9	20	
n-Triacontane (S)	%				90	91	50-150			

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## QUALIFIERS

Project: R-16292000 AST Site  
Pace Project No.: 10265983

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

- 1M The results are from sample aliquot taken from a jar with headspace. This does not meet method sampling requirements and the data should be considered an estimation
- S4 Surrogate recovery not evaluated against control limits due to sample dilution.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: R-16292000 AST Site  
Pace Project No.: 10265983

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10265983001	B-1 (1')	WI MOD DRO	OEXT/25013	WI MOD DRO	GCSV/13203
10265983002	B-1 (3 1/2')	WI MOD DRO	OEXT/25013	WI MOD DRO	GCSV/13203
10265983001	B-1 (1')	TPH GRO/PVOC WI ext.	GCV/11956	WI MOD GRO	GCV/11962
10265983002	B-1 (3 1/2')	TPH GRO/PVOC WI ext.	GCV/11956	WI MOD GRO	GCV/11962
10265983001	B-1 (1')	ASTM D2974	MPRP/45711		
10265983002	B-1 (3 1/2')	ASTM D2974	MPRP/45711		

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**CHAIN-OF-CUSTODY / Analytical Request Document**

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**RUSH**

5-6-14  
KS

1125  
10265983

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		Page: <u>1</u> of <u>1</u>	
Company: <u>MSA</u> <i>(write HOB)</i>		Report To: <u>Jon Hinkel</u>		Attention: <u>Accts Payable - Renee</u>		1504774	
Address: <u>301 W 1st Street</u> <u>Duluth, MN 55802</u>		Company: <u>MSA</u>		Company Name: <u>- MSA -</u>		<b>REGULATORY AGENCY</b>	
Email To: <u>jhinkel@msa-ps.com</u>		Purchase Order No.: <u>Barkers Island</u>		Address:		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER	
Phone: <u>722-3915</u> Fax: _____		Project Name: <u>AST Site Marina</u>		Pace Quote Reference:		Site Location	
Requested Due Date/TAT: <u>24-48 hrs</u>		Project Number: <u>R-16292000</u>		Pace Project Manager:		STATE: <u>WI</u>	
				Pace Profile #:			

ITEM #	Section D Required Client Information		Matrix Codes MATRIX / CODE		COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓ Y/N ↓	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Face Project No./ Lab I.D.				
									DATE	TIME	DATE	TIME	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl					NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other
1	B-1	(1')	163 ppm	SL	G	5/5	3:05	6	3										CO1					
2	B-1	(3 1/2')	97 ppm	SL	G	5/5	3:45	6	3										CO2					
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Jon Hinkel - MSA	5/5/14	4:48pm	<i>(Signature)</i>	5/5/14	1648	
				<i>(Signature)</i>	5-6-14	903	W5 Y 7 Y

ORIGINAL


SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER: <u>Jon Hinkel</u>		DATE Signed (MM/DD/YY): <u>5/5/14</u>	
SIGNATURE of SAMPLER: <i>(Signature)</i>			

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 90 days.

**Sample Condition Upon Receipt**      **Client Name:** MSA      **Project #:** **WO#: 10265983**

**Courier:**     Fed Ex     UPS     USPS     Client  
 Commercial     Pace     Speedee     Other: \_\_\_\_\_

**Tracking Number:** 7987 5887 5871



**Custody Seal on Cooler/Box Present?**  Yes     No      **Seals Intact?**  Yes     No

**Packing Material:**     Bubble Wrap     Bubble Bags     None     Other: \_\_\_\_\_      **Temp Blank?**  Yes     No

**Thermom. Used:**     B88A9130516413     B88A912167504     B88A9132521491      **Type of Ice:**  Wet     Blue     None     Samples on ice, cooling process has begun

**Cooler Temp Read (°C):** 1.5      **Cooler Temp Corrected (°C):** 1.5      **Biological Tissue Frozen?**  Yes     No     N/A

**Temp should be above freezing to 6°C**      **Correction Factor:** true      **Date and Initials of Person Examining Contents:** 5/6/14 / JLS

				Comments:	
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A		1.	
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A		2.	
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A		3.	
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A		4.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A		5.	
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A		6.	
Rush Turn Around Time Requested?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A		7.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A		8.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A		9.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A			
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A		10.	
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A		11.	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A		12.	
-Includes Date/Time/ID/Analysis Matrix: <u>SL L 5/6/14</u>					
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A		13.	<input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A			Sample #
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Initial when completed:      Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A		14.	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A		15.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A			
Pace Trip Blank Lot # (if purchased):					

**CLIENT NOTIFICATION/RESOLUTION**      **Field Data Required?**  Yes     No

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_

**Project Manager Review:** DJA      **Date:** 5/6/14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

## Endsley, Erin A - DNR

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**From:** Shafel, Kathleen S - DNR  
**Sent:** Tuesday, May 06, 2014 10:43 AM  
**To:** Sager, John E - DNR; Endsley, Erin A - DNR  
**Subject:** RE: WI SPILL #8073 SERTS ID 20140506NO16-1 - GASOLINE

This notification is assigned Pending # 01-16-561929.

-----Original Message-----

**From:** Sager, John E - DNR  
**Sent:** Tuesday, May 06, 2014 9:04 AM  
**To:** Shafel, Kathleen S - DNR; Endsley, Erin A - DNR  
**Subject:** FW: WI SPILL #8073 SERTS ID 20140506NO16-1 - GASOLINE

Kathleen and Erin,

John Hinkle, MSA called the spill hotline this morning reporting a spill at Barkers Island Marina. Barkers Island noticed a sheen in parking lot runoff near their AST. They hired MSA to investigate. MSA took soil samples from a hand auger boring and found contamination. MSA collected samples for lab analysis also. PID hits were elevated so I believe the lab results will show contamination.

John Hinkle is going to fill out the non-emergency notification form and email it in. I suppose you could start a pending site based on the information from the hotline also. I plan on closing the spill and note that this appears to be historical contamination and will be addressed as an ERP site.

P John Sager

Emergency Response Coordinator / Hydrogeologist Remediation and Redevelopment Program Wisconsin Department of Natural Resources

1701 North 4th Street

Superior, WI 54880

(() phone: (715) 365-8959

(() fax: (715) 392-7990

(() e-mail: [john.sager@wi.gov](mailto:john.sager@wi.gov)

We are committed to service excellence. [Click here to evaluate how I did.](#)

-----Original Message-----

**From:** [stephanie.sailing@wisconsin.gov](mailto:stephanie.sailing@wisconsin.gov) [mailto:[stephanie.sailing@wisconsin.gov](mailto:stephanie.sailing@wisconsin.gov)]

**Sent:** Tuesday, May 06, 2014 08:35

**To:** Sager, John E - DNR

**Subject:** WI SPILL #8073 SERTS ID 20140506NO16-1 - GASOLINE

Substance Release Notification from Wisconsin DNR Spill Electronic Reporting and Tracking System (SERTS):

SERTS Spill ID:  
20140506NO16-1

Date/Time Reported:

05/06/2014 08:18

Person Reporting (PR):

JOHN HINKEL

MSA

(218) 722-3915

Person Reporting is RP Contact

Date/Time Occurred:

UNKNOWN

Location:

NO REGION

DOUGLAS COUNTY

CITY OF SUPERIOR

BARKERS ISLAND MARINE

250 MARINA DR

OUTSIDE OF BUSINESS

Responsible Party (RP):

SAIL BOATS INC AND OR CITY OF SUPERIOR

Substance:

GASOLINE (Petroleum)

AND DIESEL

Released Amt: UNKNOWN

Recovered Amt: UNKNOWN

Spill Cause:

ASSOCIATED WITH AN ABOVE GROUND STORAGE TANK

NO EVACUATION

NO INJURIES

Weather:

Contractor Hired:

NONE ENTERED

Cleanup Method:

CLEAN-UP PROGRESS UNKNOWN OR CLEAN-UP NOT STARTED.

Additional Comments:

CAN GIVE MORE INFORMATION ON THE PROPERTY OWNER AND THE BUSINESS THAT IS AT THIS LOCATION. IT HAS YET TO BE DETERMINED WHO IS THE RESPONSIBLE PARTY, MOST LIKELY WILL COME DOWN TO GOING TO SAIL BOATS INC. AS THE RESPONSIBLE PARTY.

SAIL BOATS INC. CONTACT: JOE RADTKE, 715-392-7131 CITY OF SUPERIOR CONTACT: JEFF GOETZMAN, 715-395-7334

Notified JOHN SAGER at 08:30 by Phone

Form Completed by:  
Stephanie Sailing  
(608) 264-9254  
[stephanie.sailing@wisconsin.gov](mailto:stephanie.sailing@wisconsin.gov)

Notification sent to:  
[anita.smith@wi.gov](mailto:anita.smith@wi.gov)  
[danielle.wincentsen@wisconsin.gov](mailto:danielle.wincentsen@wisconsin.gov)  
[dmawemdutyofficer@wisconsin.gov](mailto:dmawemdutyofficer@wisconsin.gov)  
[dnrledo@wisconsin.gov](mailto:dnrledo@wisconsin.gov)  
[dnrlehotline@wisconsin.gov](mailto:dnrlehotline@wisconsin.gov)  
[frank.docimo@wisconsin.gov](mailto:frank.docimo@wisconsin.gov)  
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[john.sager@wisconsin.gov](mailto:john.sager@wisconsin.gov)  
[kkesler@douglascountywi.org](mailto:kkesler@douglascountywi.org)  
[philip.richard@wisconsin.gov](mailto:philip.richard@wisconsin.gov)  
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[stephanie.krueger@dhs.wisconsin.gov](mailto:stephanie.krueger@dhs.wisconsin.gov)

