



Meridian Environmental Consulting, LLC

February 5, 2017

Carrie Stoltz
Wisconsin Department of Natural Resources
107 Sutliff Avenue
Rhineland, Wisconsin 54501



Subject: **Progress Report and Change Order (Closure Packet)**
Ed's Service
316 S State Hwy 13
Stetsonville, WI
DNR BRRTS No. 03-61-183093
PECFA No. 54480-9742-16
Meridian No. 05F684

Dear Carrie:

This letter summarizes work completed at this site in the past year. Based on the results of this testing, we recommend this site be submitted for Closure with GIS Registry for Soil and Ground Water. A Change Order to complete the Closure Packet is included with this letter.

RECENT WORK

Vapor Intrusion Investigation

The DNR requested soil vapor samples be collected around the onsite building and the adjacent apartment building (324 Hwy. 13)(Figure 1).

Both buildings are built on slabs due to the shallow ground water table. The depth to ground water drops during the winter but rises to within 3 feet of grade the remainder of the year.

- Soil Probes

Five soil probes (VP1 thru VP5) were installed (Geoprobe) February 26, 2016 around the perimeter of the onsite building as shown in Figure 1. The borings were 3 feet deep (ground water is approximately 3 ft below grade). Air was purged from the soil probe and field tested for Oxygen, LEL, and VOCs using a PID. A Summa canister (6 liter) was used to collect an air sample (TO-15 PVOC) from the soil probe. The analytical report is provided in Appendix A and summarized in Table 1.

- Adjacent apartment building

Two sampling ports (Cox Colvin) were installed in the floor of the apartment building. The ports were left in place to allow for at least two air samples to be collected (winter, summer). Air samples were collected February 26 and June 14, 2016 using Summa Canisters. The samples were analyzed for PVOC using TO-15. The analytical report is provided in Appendix A and summarized in Table 1.

Ground Water Sampling

Ground water samples were collected from MW-2R, MW-4, MW-9P and PZ-1 March 30, 2016. The entire monitoring well network was sampled June 14, 2016. The analytical reports are provided in Appendix A and summarized in Table 2.

Natural attenuation parameters (dissolved oxygen, temperature, pH, conductivity, and ORP) were measured in the field during sampling. The measurements are summarized in Table 3.

The depth to water was also measured during each sampling event (Table 4).

CONCLUSIONS AND RECOMMENDATIONS

Vapor Intrusion Sampling

The vapor intrusion investigation did not identify any vapor intrusion issues at this site. No further work is recommended with respect to vapor intrusion.

Ground water Contamination

The extent of impacted ground water is well defined (Figure 2). The contaminant plume is stable. No further sampling is necessary.

Recommendations

- Based on the data collected, we recommend this site be re-submitted for Closure with GIS Registry for Soil and Ground Water.
- We recommend monitoring wells MW-7, MW-7P, MW-9, MW-9P be transferred to the adjacent property known as Olson & Goodman (BRRTS No. 03-61-563926).
- A Change Order for the Closure report is provided with this letter. We will proceed upon written approval of these costs.

Sincerely,

MERIDIAN ENVIRONMENTAL CONSULTING, LLC



Kenneth Shimko, PG
Project Manager

TABLES

Table 1: Vapor Intrusion Air Samples

Rindt's Service
 Stetsonville, WI
 Meridian No. 05F684

Boring	Date	Depth	LEL	Oxygen	PID	Benzene	Ethylbenzene	MTBE	Toluene	1,2,4-TMB	1,3,5-TMB	m&p-Xylene	o-Xylene
Units		ft		%		ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
Vapor Risk Screening Levels**						120	370	3700	170000	240	---	3300	3300
Soil Vapor Probes													
VP1	2/26/2016	3	0	20.9	0	2.6	0.77	<2.8	3.2	<.081	<.78	2.4	1.3
VP2	2/26/2016	3	0	20.1	0	2.9	7.4	<3.5	4.5	2.6	1.3	30.2	33.7
VP3	2/26/2016	3	0	19.3	0.5	11.3	21.1	<2.9	20.4	7.1	4.9	86.8	104
VP4	2/26/2016	3	0	20.9	0	1.2	0.76	<2.9	2.5	1.8	<.8	2.5	1
VP5	2/26/2016	1.5	0	20.9	0	1.1	0.77	<2.8	18.1	1.6	<.78	3.3	1.6
Vapor Sampling Ports (324 Hwy 13)(Olson property)													
Pin 1													
	2/26/2016	slab	0	20.9	0	0.61	0.76	<2.9	1.9	2.2	<.8	2.1	0.82
	6/14/2016	slab	0	20.9	0	<.2	<.68	<.49	0.94	8.3	1.9	1.8	1.2
Pin 2													
	2/26/2016	slab	0	20.9	0	<.27	<.74	<3.1	1.5	2.8	<.84	1.8	<.74
	6/14/2016	slab	0	20.9	0	<.2	<.68	<.49	0.9	6.3	1.3	1.5	1

** Vapor Risk Screening Levels based on December 2015 US EPA Regional Screening Level Tables. Residential - Sub-slab Vapor VRSL used.

Table 2: Ground Water Analytical Data
Page 3 of 3

Well	Units	1,2,4-TMB	1,3,5-TMB	Total TMBs	Benzene	Ethylbenzene	m&p-xylene	o-xylene	Total Xylenes	MTBE	Naphthalene	Toluene	EDB	1,2-DCA
NR140 ES	ug/l			480	5	700			2000	60	100	800	0.05	5
NR140 PAL	ug/l			96	0.5	140			400	12	10	160	0.005	0.5
Private Wells														
Olson														
10/10/2006	ug/l	<.4	<.31	<.4	<.31	<.5	<.62	<.3	<.62	<.3	<.6	<.3	NA	NA
4/2/2007	ug/l	<.2	<.2	<.2	0.21	<.1	<.4	<.2	<.4	<.2	<.1	0.66	<.2	<.2
6/17/2006	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	0.27	<.4	<.3	<.3
12/9/2006	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<.11	<.4	<.3	<.3
4/27/2009	ug/l	<.2	<.2	<.2	<.2	<.2	-	-	<.1	<.5	<.1	<.4	NM	<.3
7/22/2009	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<.1	<.4	<.3	<.3
6/21/2010	Not Sampled - Inaccessible													
12/7/2010	ug/l	<.2	<.2	<.2	0.62	<.2	<.4	<.2	<.4	<.5	<.1	<.4	<.3	<.3
Abandoned 20 11 (now on municipal water system)														
Rindts Shop (Ed's Service)														
12/5/2006	ug/l	<.4	<.31	<.4	<.31	<.5	<.62	<.3	<.62	<.3	<.6	<.3	NA	NA
4/2/2007	ug/l	<.2	<.2	<.2	<.2	<.1	<.4	<.2	<.4	<.2	<.1	<.4	<.2	<.2
6/17/2006	ug/l	<.2	<.2	<.2	0.39	<.2	<.4	<.2	<.4	<.5	<.024	<.4	<.3	<.3
12/9/2006	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<.11	<.4	<.3	<.3
4/27/2009	ug/l	<.2	<.2	<.2	0.24	<.2	<.4	<.2	<.4	<.5	<.11	0.54	<.3	<.3
7/22/2009	ug/l	<.2	<.2	<.2	0.22	<.2	<.4	<.2	<.4	<.5	<.1	0.61	<.3	0.32
6/21/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<.1	<.4	<.3	<.3
12/7/2010	ug/l	<.2	<.2	<.2	0.57	<.2	<.4	<.2	<.4	<.5	<.1	<.4	<.3	0.5
Abandoned 20 11 (now on municipal water system)														
315 Lincoln														
6/21/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<.1	<.4	<.3	<.3
12/7/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<.1	<.4	<.3	<.3
Abandoned 20 11 (now on municipal water system)														
331 Lincoln														
6/21/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<.1	<.4	<.3	<.3
12/7/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<.1	<.4	<.3	<.3
Abandoned 20 11 (now on municipal water system)														
109 Mink														
6/21/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	0.76	<.1	<.4	<.3	<.3
12/7/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	1.25	<.1	<.4	<.3	<.3
Abandoned 20 11 (now on municipal water system)														
125 Mink														
6/21/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	1.01	<.1	<.4	<.3	<.3
12/7/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	2.3	<.1	<.4	<.3	<.3
Abandoned 20 11 (now on municipal water system)														

10 concentration exceeds NR140 Enforcement Standard (ES)
10 concentration exceeds NR140 Preventative Action Limit (PAL)
NA - parameter not analyzed

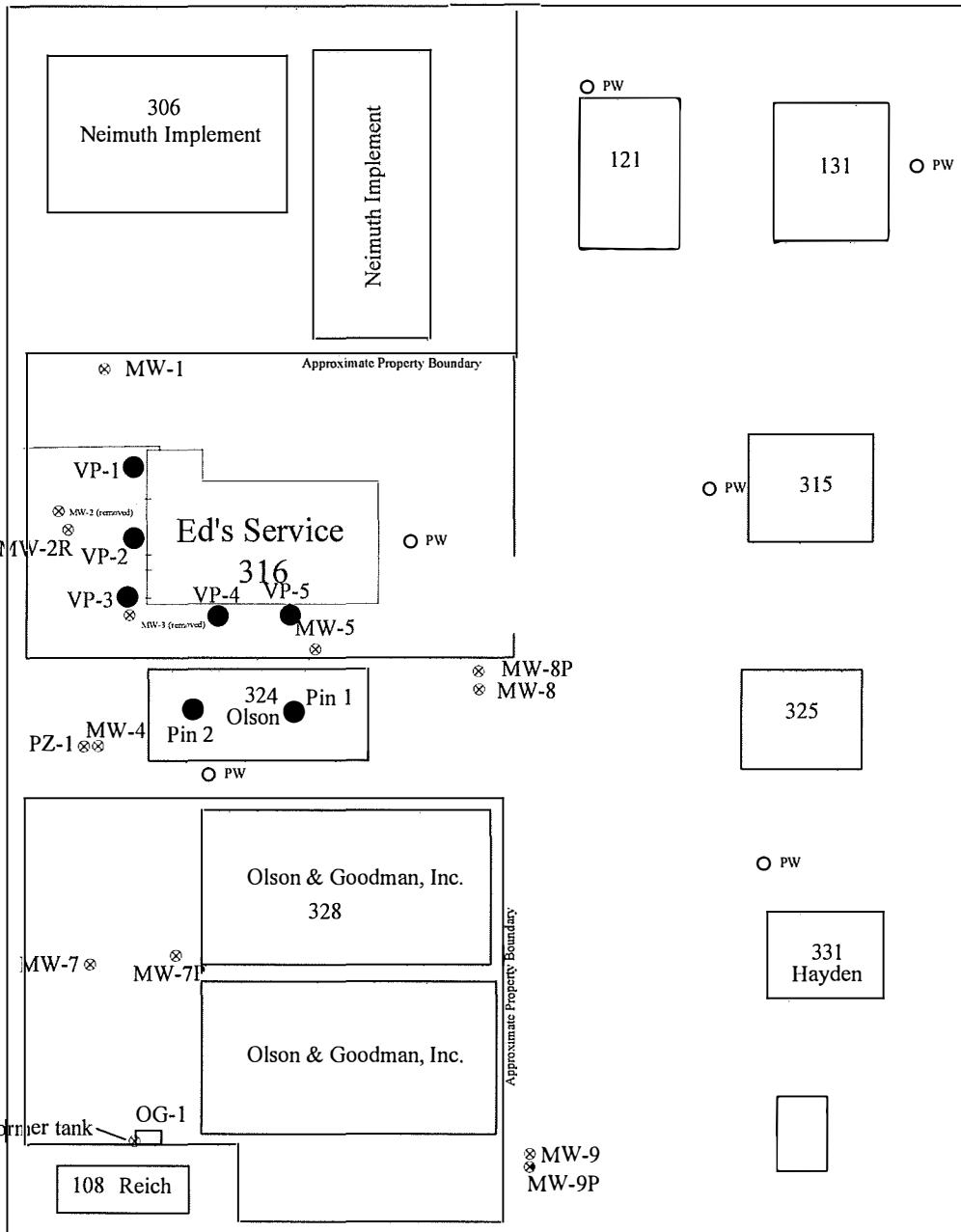
Table 3: Natural Attenuation Field Data

Rindt's Service
 Stetsonville, WI
 Meridian No. 05F684

Well	Date	DO ppm	pH	T oC	K	ORP
MW-1						
	3/30/2016	Not Sampled				
	6/14/2016	1	7.52	12.4	806	32
MW-2R						
	3/30/2016	0	8.13	4.2	1757	101
	6/14/2016	2	7.04	12.5	2000	27
MW-4						
	3/30/2016	5	7.78	5	8.32	125
	6/14/2016	1	7.75	11.4	935	26
MW-5						
	3/30/2016	Not Sampled				
	6/14/2016	1	8.14	12.2	664	93
MW-6						
	3/30/2016	Not Sampled				
	6/14/2016	1	7.46	14.8	1407	44
MW-7						
	3/30/2016	Not Sampled				
	6/14/2016	1	7.16	15.1	1366	17
MW-7p						
	3/30/2016	Not Sampled				
	6/14/2016	3	8.13	15.5	587	-11
MW-8						
	3/30/2016					
	6/14/2016	1	7.79	11.9	663	-21
MW-8P						
	3/30/2016	Not Sampled				
	6/14/2016	<<1	7.84	12	651	-65
MW-9						
	3/30/2016	Not Sampled				
	6/14/2016	1	8.11	14.1	683	63
MW-9P						
	3/30/2016	2	8.15	7.7	1132	91
	6/14/2016	3	7.66	15.3	1068	14
P-1						
	3/30/2016	1	7.43	7.2	1485	119
	6/14/2016	<1	8.03	13.4	1453	-19

FIGURES

Swift Ave.



MW-6

Hwy 13

PZ-1

MW-4

324 Olson

Pin 1

Pin 2

Olson & Goodman, Inc.
328

MW-7

MW-7P

Olson & Goodman, Inc.

former tank
OG-1
108 Reich

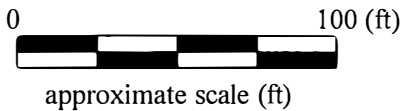
Approximate Property Boundary

Mink Ave.


Lincoln Ave.

LEGEND

- ⊗ MW-1 Monitoring Well
- PW Private Water Well (former)
(PWs abandoned - Public Water)
- Vapor Probe

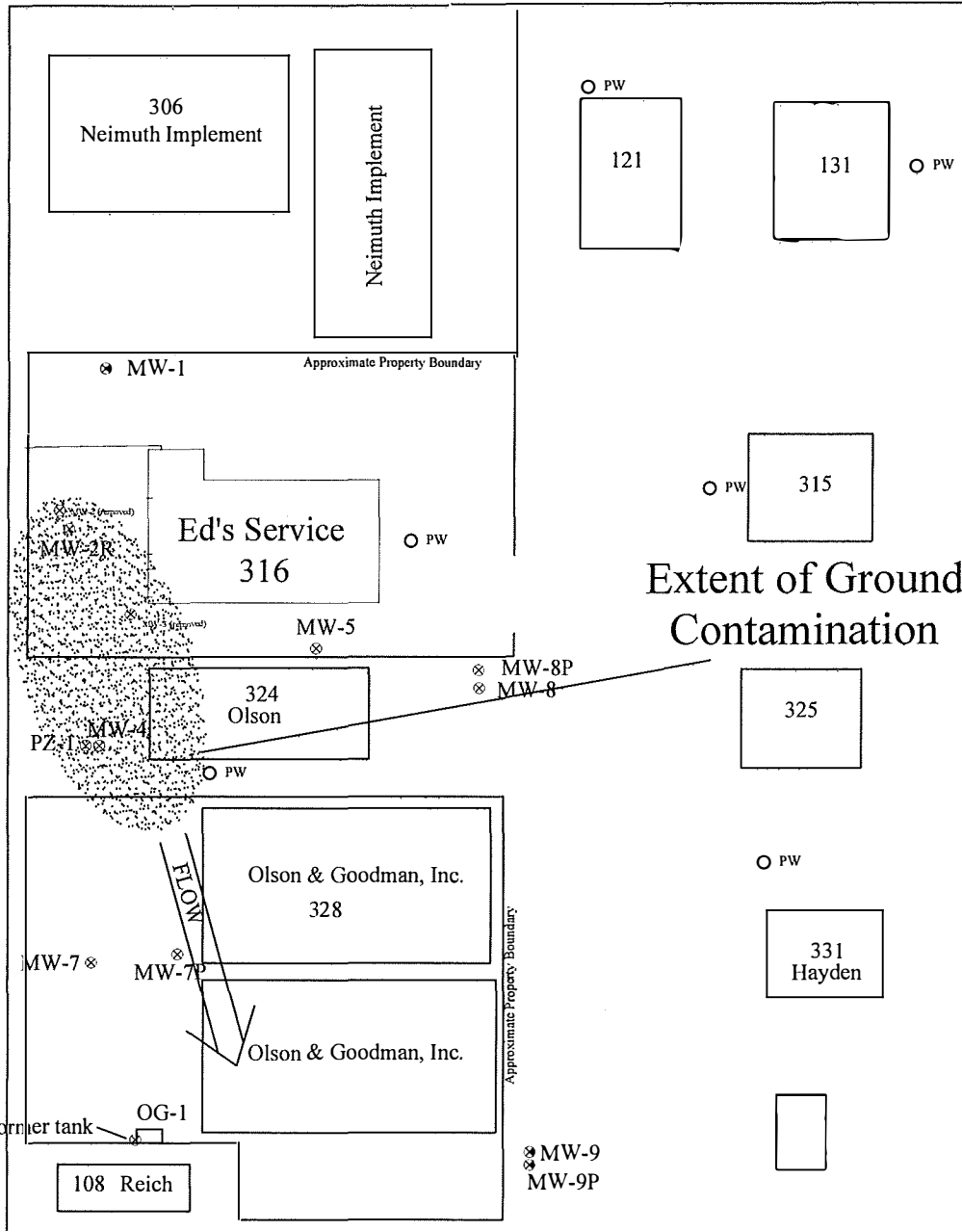
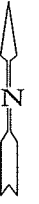


**Figure 1
Site Map
Ed's Service
Stetsonville, WI**

PROJECT NO. 05F684	PREPARED BY KAS	
DATE 2/5/17	REVIEWED BY KAS	

Meridian Environmental Consulting, LLC

Swift Ave.



Extent of Ground Water Contamination

Lincoln Ave.

Mink Ave.

LEGEND

- ⊗ MW-1 Monitoring Well
- PW Private Water Well

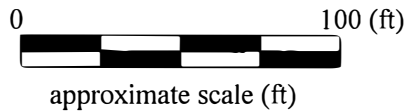



Figure 2
Extent of Ground Water Contamination
Ed's Service
Stetsonville, WI

PROJECT NO. 05F684	PREPARED BY KAS	 Meridian Environmental Consulting, LLC
DATE 10/15/13	REVIEWED BY KAS	

APPENDIX A
Analytical Reports



Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

March 14, 2016

Kenneth Shimko
Meridian Environmental Consulting, LLC
2711 North Elco Rd
Fall Creek, WI 54742

RE: Project: Ed's Service
Pace Project No.: 10340242

Dear Kenneth Shimko:

Enclosed are the analytical results for sample(s) received by the laboratory on March 02, 2016. 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,

Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Ed's Service
Pace Project No.: 10340242

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
525 N 8th Street, Salina, KS 67401
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
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 #: 14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
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
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
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
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: Ed's Service
Pace Project No.: 10340242

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10340242001	VP1	Air	02/26/16 10:01	03/02/16 10:00
10340242002	VP2	Air	02/26/16 10:26	03/02/16 10:00
10340242003	VP3	Air	02/26/16 10:55	03/02/16 10:00
10340242004	VP4	Air	02/26/16 11:30	03/02/16 10:00
10340242005	VP5	Air	02/26/16 12:27	03/02/16 10:00
10340242006	Pin 1	Air	02/26/16 12:41	03/02/16 10:00
10340242007	Pin 2	Air	02/26/16 13:12	03/02/16 10:00

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SAMPLE ANALYTE COUNT

Project: Ed's Service
Pace Project No.: 10340242

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10340242001	VP1	TO-15	MJL	8	PASI-M
10340242002	VP2	TO-15	MJL	8	PASI-M
10340242003	VP3	TO-15	MJL	8	PASI-M
10340242004	VP4	TO-15	MJL	8	PASI-M
10340242005	VP5	TO-15	MJL	8	PASI-M
10340242006	Pin 1	TO-15	MJL	8	PASI-M
10340242007	Pin 2	TO-15	MJL	8	PASI-M

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ANALYTICAL RESULTS

Project: Ed's Service
 Pace Project No.: 10340242

Sample: VP1 Lab ID: 10340242001 Collected: 02/26/16 10:01 Received: 03/02/16 10:00 Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	2.6	ug/m3	1.0	0.25	1.55		03/14/16 04:05	71-43-2	
Ethylbenzene	0.77J	ug/m3	1.4	0.68	1.55		03/14/16 04:05	100-41-4	
Methyl-tert-butyl ether	<2.8	ug/m3	5.7	2.8	1.55		03/14/16 04:05	1634-04-4	
Toluene	3.2	ug/m3	1.2	0.59	1.55		03/14/16 04:05	108-88-3	
1,2,4-Trimethylbenzene	<0.081	ug/m3	1.5	0.081	1.55		03/14/16 04:05	95-63-6	
1,3,5-Trimethylbenzene	<0.78	ug/m3	1.5	0.78	1.55		03/14/16 04:05	108-67-8	
m&p-Xylene	2.4J	ug/m3	2.7	1.4	1.55		03/14/16 04:05	179601-23-1	
o-Xylene	1.3J	ug/m3	1.4	0.68	1.55		03/14/16 04:05	95-47-6	

Sample: VP2 Lab ID: 10340242002 Collected: 02/26/16 10:26 Received: 03/02/16 10:00 Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	2.9	ug/m3	1.2	0.31	1.92		03/14/16 04:37	71-43-2	
Ethylbenzene	7.4	ug/m3	1.7	0.85	1.92		03/14/16 04:37	100-41-4	
Methyl-tert-butyl ether	<3.5	ug/m3	7.0	3.5	1.92		03/14/16 04:37	1634-04-4	
Toluene	4.5	ug/m3	1.5	0.74	1.92		03/14/16 04:37	108-88-3	
1,2,4-Trimethylbenzene	2.6	ug/m3	1.9	0.10	1.92		03/14/16 04:37	95-63-6	
1,3,5-Trimethylbenzene	1.3J	ug/m3	1.9	0.96	1.92		03/14/16 04:37	108-67-8	
m&p-Xylene	30.2	ug/m3	3.4	1.7	1.92		03/14/16 04:37	179601-23-1	
o-Xylene	33.7	ug/m3	1.7	0.85	1.92		03/14/16 04:37	95-47-6	

Sample: VP3 Lab ID: 10340242003 Collected: 02/26/16 10:55 Received: 03/02/16 10:00 Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	11.3	ug/m3	1.0	0.26	1.61		03/14/16 06:12	71-43-2	
Ethylbenzene	21.1	ug/m3	1.4	0.71	1.61		03/14/16 06:12	100-41-4	
Methyl-tert-butyl ether	<2.9	ug/m3	5.9	2.9	1.61		03/14/16 06:12	1634-04-4	
Toluene	20.4	ug/m3	1.2	0.62	1.61		03/14/16 06:12	108-88-3	
1,2,4-Trimethylbenzene	7.1	ug/m3	1.6	0.084	1.61		03/14/16 06:12	95-63-6	
1,3,5-Trimethylbenzene	4.9	ug/m3	1.6	0.80	1.61		03/14/16 06:12	108-67-8	
m&p-Xylene	86.8	ug/m3	2.8	1.4	1.61		03/14/16 06:12	179601-23-1	
o-Xylene	104	ug/m3	1.4	0.71	1.61		03/14/16 06:12	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Ed's Service
 Pace Project No.: 10340242

Sample: **VP4** Lab ID: **10340242004** Collected: 02/26/16 11:30 Received: 03/02/16 10:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Benzene	1.2	ug/m3	1.0	0.26	1.61		03/14/16 05:09	71-43-2	
Ethylbenzene	0.76J	ug/m3	1.4	0.71	1.61		03/14/16 05:09	100-41-4	
Methyl-tert-butyl ether	<2.9	ug/m3	5.9	2.9	1.61		03/14/16 05:09	1634-04-4	
Toluene	2.5	ug/m3	1.2	0.62	1.61		03/14/16 05:09	108-88-3	
1,2,4-Trimethylbenzene	1.8	ug/m3	1.6	0.084	1.61		03/14/16 05:09	95-63-6	
1,3,5-Trimethylbenzene	<0.80	ug/m3	1.6	0.80	1.61		03/14/16 05:09	108-67-8	
m&p-Xylene	2.5J	ug/m3	2.8	1.4	1.61		03/14/16 05:09	179601-23-1	
o-Xylene	1.0J	ug/m3	1.4	0.71	1.61		03/14/16 05:09	95-47-6	

Sample: **VP5** Lab ID: **10340242005** Collected: 02/26/16 12:27 Received: 03/02/16 10:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Benzene	1.1	ug/m3	1.0	0.25	1.55		03/14/16 05:40	71-43-2	
Ethylbenzene	0.77J	ug/m3	1.4	0.68	1.55		03/14/16 05:40	100-41-4	
Methyl-tert-butyl ether	<2.8	ug/m3	5.7	2.8	1.55		03/14/16 05:40	1634-04-4	
Toluene	18.1	ug/m3	1.2	0.59	1.55		03/14/16 05:40	108-88-3	
1,2,4-Trimethylbenzene	1.6	ug/m3	1.5	0.081	1.55		03/14/16 05:40	95-63-6	
1,3,5-Trimethylbenzene	<0.78	ug/m3	1.5	0.78	1.55		03/14/16 05:40	108-67-8	
m&p-Xylene	3.3	ug/m3	2.7	1.4	1.55		03/14/16 05:40	179601-23-1	
o-Xylene	1.6	ug/m3	1.4	0.68	1.55		03/14/16 05:40	95-47-6	

Sample: **Pin 1** Lab ID: **10340242006** Collected: 02/26/16 12:41 Received: 03/02/16 10:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Benzene	0.61J	ug/m3	1.0	0.26	1.61		03/14/16 06:44	71-43-2	
Ethylbenzene	0.76J	ug/m3	1.4	0.71	1.61		03/14/16 06:44	100-41-4	
Methyl-tert-butyl ether	<2.9	ug/m3	5.9	2.9	1.61		03/14/16 06:44	1634-04-4	
Toluene	1.9	ug/m3	1.2	0.62	1.61		03/14/16 06:44	108-88-3	
1,2,4-Trimethylbenzene	2.2	ug/m3	1.6	0.084	1.61		03/14/16 06:44	95-63-6	
1,3,5-Trimethylbenzene	<0.80	ug/m3	1.6	0.80	1.61		03/14/16 06:44	108-67-8	
m&p-Xylene	2.1J	ug/m3	2.8	1.4	1.61		03/14/16 06:44	179601-23-1	
o-Xylene	0.82J	ug/m3	1.4	0.71	1.61		03/14/16 06:44	95-47-6	

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ANALYTICAL RESULTS

Project: Ed's Service
 Pace Project No.: 10340242

Sample: Pin 2 Lab ID: 10340242007 Collected: 02/26/16 13:12 Received: 03/02/16 10:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15							
Benzene	<0.27	ug/m3	1.1	0.27	1.68		03/14/16 07:16	71-43-2	
Ethylbenzene	<0.74	ug/m3	1.5	0.74	1.68		03/14/16 07:16	100-41-4	
Methyl-tert-butyl ether	<3.1	ug/m3	6.2	3.1	1.68		03/14/16 07:16	1634-04-4	
Toluene	1.5	ug/m3	1.3	0.64	1.68		03/14/16 07:16	108-88-3	
1,2,4-Trimethylbenzene	2.8	ug/m3	1.7	0.087	1.68		03/14/16 07:16	95-63-6	
1,3,5-Trimethylbenzene	<0.84	ug/m3	1.7	0.84	1.68		03/14/16 07:16	108-67-8	
m&p-Xylene	1.8J	ug/m3	3.0	1.5	1.68		03/14/16 07:16	179601-23-1	
o-Xylene	<0.74	ug/m3	1.5	0.74	1.68		03/14/16 07:16	95-47-6	

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QUALITY CONTROL DATA

Project: Ed's Service
Pace Project No.: 10340242

QC Batch: AIR/25429 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10340242001, 10340242002, 10340242003, 10340242004, 10340242005, 10340242006, 10340242007

METHOD BLANK: 2209073 Matrix: Air
Associated Lab Samples: 10340242001, 10340242002, 10340242003, 10340242004, 10340242005, 10340242006, 10340242007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/m3	<0.052	1.0	03/13/16 17:44	
1,3,5-Trimethylbenzene	ug/m3	<0.50	1.0	03/13/16 17:44	
Benzene	ug/m3	<0.16	0.65	03/13/16 17:44	
Ethylbenzene	ug/m3	<0.44	0.88	03/13/16 17:44	
m&p-Xylene	ug/m3	<0.88	1.8	03/13/16 17:44	
Methyl-tert-butyl ether	ug/m3	<1.8	3.7	03/13/16 17:44	
o-Xylene	ug/m3	<0.44	0.88	03/13/16 17:44	
Toluene	ug/m3	<0.38	0.77	03/13/16 17:44	

LABORATORY CONTROL SAMPLE: 2209074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/m3	50	54.5	109	57-143	
1,3,5-Trimethylbenzene	ug/m3	50	55.4	111	54-147	
Benzene	ug/m3	32.5	30.7	95	62-141	
Ethylbenzene	ug/m3	44.2	46.7	106	59-149	
m&p-Xylene	ug/m3	44.2	48.0	109	59-146	
Methyl-tert-butyl ether	ug/m3	36.7	38.4	105	64-135	
o-Xylene	ug/m3	44.2	44.5	101	54-149	
Toluene	ug/m3	38.3	36.0	94	61-138	

SAMPLE DUPLICATE: 2209085

Parameter	Units	10340318001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/m3	ND	<0.052		25	
1,3,5-Trimethylbenzene	ug/m3	ND	<0.50		25	
Benzene	ug/m3	0.49J	0.49J		25	
Ethylbenzene	ug/m3	ND	<0.44		25	
m&p-Xylene	ug/m3	ND	<0.88		25	
Methyl-tert-butyl ether	ug/m3	ND	<1.8		25	
o-Xylene	ug/m3	ND	<0.44		25	
Toluene	ug/m3	0.59J	0.57J		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Ed's Service
Pace Project No.: 10340242

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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 at or above the adjusted LOD.

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.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Ed's Service
Pace Project No.: 10340242

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10340242001	VP1	TO-15	AIR/25429		
10340242002	VP2	TO-15	AIR/25429		
10340242003	VP3	TO-15	AIR/25429		
10340242004	VP4	TO-15	AIR/25429		
10340242005	VP5	TO-15	AIR/25429		
10340242006	Pin 1	TO-15	AIR/25429		
10340242007	Pin 2	TO-15	AIR/25429		

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

10340242

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	24055
Company: <u>Meridian Env. Cstg</u>	Report To: <u>Ken Shimko</u>	Attention: <u>Ken Shimko</u>	Page: of
Address: <u>2711 N. Elco Rd Fall Creek WI 54742</u>	Copy To:	Company Name: <u>Meridian Env. Cstg</u>	
Email To: <u>54742</u>	Purchase Order No.:	Address: <u>2711 N. Elco Rd, Fall Creek, WI 54742</u>	
Phone: <u>715-832-6608</u> Fax:	Project Name: <u>Ed's Service</u>	Pace Quote Reference: <u>54742</u>	
Requested Due Date/TAT:	Project Number:	Pace Project Manager/Sales Rep.	
		Pace Profile #:	

Program	
<input type="checkbox"/> UST	<input type="checkbox"/> Superfund
<input type="checkbox"/> Emissions	<input type="checkbox"/> Clean Air Act
<input type="checkbox"/> Voluntary Clean Up	<input type="checkbox"/> Dry Clean
<input type="checkbox"/> RCRA	<input type="checkbox"/> Other
Location of Sampling by State: <u>WI</u>	Reporting Units
	ug/m ³ <input checked="" type="checkbox"/> mg/m ³
	PPBV <input type="checkbox"/> PPMV <input type="checkbox"/>
	Other <input type="checkbox"/>
Report Level: <u>II</u>	III <input type="checkbox"/> IV <input type="checkbox"/> Other <input type="checkbox"/>

ITEM #	Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Codes MEDIA CODE Tedlar Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PM10	MEDIA CODE	PID Reading (Client only)	COLLECTED				Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method:							Face Lab ID		
					COMPOSITE START END/GRAB		COMPOSITE -						PM10	3C-Fixed Gas (%)	TO-3	TO-5M (Methane)	TO-7 (PCBs)	TO-13 (PAN)	TO-14		TO-15	TO-15 Short Lead
					DATE	TIME	DATE	TIME														
1	VP1		6LC		2/26	9:24	2/26	10:01	28	5	0621									X	001	
2	VP2					9:38		10:26	29	10	1604											002
3	VP3					10:18		10:55	22	5	0307											003
4	VP4					10:43		11:30	28	6	0210											004
5	VP5					11:28		12:27	28	6	0314											005
6	Pin 1					12:07		12:41	28	7	0307											006
7	Pin 2					12:35		1:12	28	6	0556											007

Comments :	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS							
	<u>[Signature] / Meridian</u>	<u>3/1/16</u>	<u>2pm</u>	<u>Fed Ex</u>	<u>3/1/16</u>	<u>2pm</u>					YIN	YIN	YIN	YIN
				<u>[Signature] Pace</u>	<u>3/1/16</u>	<u>10:00</u>					YIN	YIN	YIN	YIN

SAMPLER NAME AND SIGNATURE		Temp in °C
PRINT Name of SAMPLER:		
SIGNATURE OF SAMPLER:		Received on Ice
DATE Signed (MM / DD / YY)		Customary Sealed Cooler
		Samples Intact

ORIGINAL



Document Name:
Air Sample Condition Upon Receipt
Document No.:
F-MN-A-106-rev.10

Document Revised: 29 June 2015
Page 1 of 1
Issuing Authority:
Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Meridian Env. Project #: _____

WO#: 10340242

 10340242

Courier: Fed Ex UPS Speedee Client
 Commercial Pace Other: _____

Tracking Number: 6637503531321 3121

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

Packing Material: Bubble Wrap Bubble Bags Foam None Tin Can Other: _____ Temp Blank rec: Yes No

Temp. (TO17 and TO13 samples only) (°C): ✓ Corrected Temp (°C): A Thermom. Used: B88A912167504 72337080
 B88A9132521491 80512447
 Temp should be above freezing to 6°C Correction Factor: X Date & Initials of Person Examining Contents: JA 3/21/16

Type of ice Received Blue Wet None

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 type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> Yes <input checked="" 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.
Media: Air Can Airbag Filter TDT Passive		11.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>Labels left blank</u>

Samples Received:			Samples Received:		
Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID
VP1	0621	0197			
VP2	1604	0808			
VP3	0307	0904			
VP4	0210	0622			
VP5	0317	0769			
Pin 1	0301	0942			
Pin 2	0556	0813			

CLIENT NOTIFICATION/RESOLUTION Field Data Required? Yes No
 Person Contacted: _____ Date/Time: _____
 Comments/Resolution: _____

Project Manager Review: [Signature] Date: 3/21/16

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)



Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

April 08, 2016

Kenneth Shimko
Meridian Environmental Consulting, LLC
2711 North Elco Rd
Fall Creek, WI 54742

RE: Project: RINDT
Pace Project No.: 40130061

Dear Kenneth Shimko:

Enclosed are the analytical results for sample(s) received by the laboratory on April 01, 2016. 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,

Brian Basten
brian.basten@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: RINDT
Pace Project No.: 40130061

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
Virginia VELAP ID: 460263
North Dakota Certification #: R-150

South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Virginia VELAP Certification ID: 460263
Virginia VELAP ID: 460263
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

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SAMPLE SUMMARY

Project: RINDT
Pace Project No.: 40130061

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40130061001	MW-2R	Water	03/30/16 00:00	04/01/16 07:35
40130061002	MW-4	Water	03/30/16 00:00	04/01/16 07:35
40130061003	MW-9P	Water	03/30/16 00:00	04/01/16 07:35
40130061004	P-1	Water	03/30/16 00:00	04/01/16 07:35
40130061005	TRIP BLANK	Water	03/30/16 00:00	04/01/16 07:35

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SAMPLE ANALYTE COUNT

Project: RINDT
Pace Project No.: 40130061

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40130061001	MW-2R	WI MOD GRO	PMS	9	PASI-G
40130061002	MW-4	WI MOD GRO	PMS	9	PASI-G
40130061003	MW-9P	WI MOD GRO	PMS	9	PASI-G
40130061004	P-1	WI MOD GRO	PMS	9	PASI-G
40130061005	TRIP BLANK	WI MOD GRO	PMS	9	PASI-G

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PROJECT NARRATIVE

Project: RINDT
Pace Project No.: 40130061

Method: WI MOD GRO
Description: WIGRO GCV
Client: Meridian Environmental Consulting, LLC
Date: April 08, 2016

General Information:

5 samples were analyzed for WI MOD GRO. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times 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.

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.

QC Batch: GCV/15877

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40130115002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1315648)
- Toluene

Additional Comments:

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

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ANALYTICAL RESULTS

Project: RINDT
 Pace Project No.: 40130061

Sample: MW-2R Lab ID: 40130061001 Collected: 03/30/16 00:00 Received: 04/01/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	174	ug/L	2.0	0.79	2		04/07/16 11:14	71-43-2	
Ethylbenzene	17.5	ug/L	2.0	0.79	2		04/07/16 11:14	100-41-4	
Methyl-tert-butyl ether	1.5J	ug/L	2.0	0.97	2		04/07/16 11:14	1634-04-4	
Naphthalene	<0.85	ug/L	2.0	0.85	2		04/07/16 11:14	91-20-3	
Toluene	3.1	ug/L	2.0	0.78	2		04/07/16 11:14	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.0	0.84	2		04/07/16 11:14	95-63-6	
1,3,5-Trimethylbenzene	<0.83	ug/L	2.0	0.83	2		04/07/16 11:14	108-67-8	
Xylene (Total)	3.8J	ug/L	6.0	2.5	2		04/07/16 11:14	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		2		04/07/16 11:14	98-08-8	

Sample: MW-4 Lab ID: 40130061002 Collected: 03/30/16 00:00 Received: 04/01/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	181	ug/L	1.0	0.40	1		04/06/16 13:00	71-43-2	
Ethylbenzene	0.60J	ug/L	1.0	0.39	1		04/06/16 13:00	100-41-4	
Methyl-tert-butyl ether	2.5	ug/L	1.0	0.48	1		04/06/16 13:00	1634-04-4	
Naphthalene	1.5	ug/L	1.0	0.42	1		04/06/16 13:00	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		04/06/16 13:00	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		04/06/16 13:00	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		04/06/16 13:00	108-67-8	
Xylene (Total)	<1.2	ug/L	3.0	1.2	1		04/06/16 13:00	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	107	%	80-120		1		04/06/16 13:00	98-08-8	

Sample: MW-9P Lab ID: 40130061003 Collected: 03/30/16 00:00 Received: 04/01/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		04/06/16 21:08	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		04/06/16 21:08	100-41-4	
Methyl-tert-butyl ether	106	ug/L	1.0	0.48	1		04/06/16 21:08	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		04/06/16 21:08	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		04/06/16 21:08	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		04/06/16 21:08	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		04/06/16 21:08	108-67-8	
Xylene (Total)	<1.2	ug/L	3.0	1.2	1		04/06/16 21:08	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1		04/06/16 21:08	98-08-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RINDT
 Pace Project No.: 40130061

Sample: P-1 Lab ID: 40130061004 Collected: 03/30/16 00:00 Received: 04/01/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO									
Benzene	6.1	ug/L	1.0	0.40	1		04/06/16 13:25	71-43-2	
Ethylbenzene	0.43J	ug/L	1.0	0.39	1		04/06/16 13:25	100-41-4	
Methyl-tert-butyl ether	5.8	ug/L	1.0	0.48	1		04/06/16 13:25	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		04/06/16 13:25	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		04/06/16 13:25	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		04/06/16 13:25	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		04/06/16 13:25	108-67-8	
Xylene (Total)	<1.2	ug/L	3.0	1.2	1		04/06/16 13:25	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		04/06/16 13:25	98-08-8	

Sample: TRIP BLANK Lab ID: 40130061005 Collected: 03/30/16 00:00 Received: 04/01/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		04/06/16 21:34	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		04/06/16 21:34	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		04/06/16 21:34	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		04/06/16 21:34	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		04/06/16 21:34	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		04/06/16 21:34	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		04/06/16 21:34	108-67-8	
Xylene (Total)	<1.2	ug/L	3.0	1.2	1		04/06/16 21:34	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1		04/06/16 21:34	98-08-8	

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QUALITY CONTROL DATA

Project: RINDT
 Pace Project No.: 40130061

QC Batch: GCV/15877 Analysis Method: WI MOD GRO
 QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
 Associated Lab Samples: 40130061001, 40130061002, 40130061003, 40130061004, 40130061005

METHOD BLANK: 1315602 Matrix: Water
 Associated Lab Samples: 40130061001, 40130061002, 40130061003, 40130061004, 40130061005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.42	1.0	04/06/16 08:27	
1,3,5-Trimethylbenzene	ug/L	<0.42	1.0	04/06/16 08:27	
Benzene	ug/L	<0.40	1.0	04/06/16 08:27	
Ethylbenzene	ug/L	<0.39	1.0	04/06/16 08:27	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	04/06/16 08:27	
Naphthalene	ug/L	<0.42	1.0	04/06/16 08:27	
Toluene	ug/L	<0.39	1.0	04/06/16 08:27	
Xylene (Total)	ug/L	<1.2	3.0	04/06/16 08:27	
a,a,a-Trifluorotoluene (S)	%	103	80-120	04/06/16 08:27	

Parameter	Units	1315603		1315604		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCS Result	LCSD % Rec				
1,2,4-Trimethylbenzene	ug/L	20	21.9	22.2	109	111	80-120	1	20
1,3,5-Trimethylbenzene	ug/L	20	21.6	21.6	108	108	80-120	0	20
Benzene	ug/L	20	21.1	21.6	105	108	80-120	2	20
Ethylbenzene	ug/L	20	21.2	21.5	106	108	80-120	1	20
Methyl-tert-butyl ether	ug/L	20	19.6	20.9	98	105	80-120	7	20
Naphthalene	ug/L	20	19.7	22.2	99	111	80-120	12	20
Toluene	ug/L	20	21.2	21.3	106	106	80-120	0	20
Xylene (Total)	ug/L	60	63.9	64.7	107	108	80-120	1	20
a,a,a-Trifluorotoluene (S)	%				103	102	80-120		

Parameter	Units	1315648		1315649		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MSD Spike Conc.	MS Result						
1,2,4-Trimethylbenzene	ug/L	<4.2	200	200	236	235	118	117	29-200	0	20
1,3,5-Trimethylbenzene	ug/L	<4.2	200	200	229	229	115	114	57-171	0	20
Benzene	ug/L	<4.0	200	200	225	222	113	111	69-150	2	20
Ethylbenzene	ug/L	10.2	200	200	243	243	116	116	80-146	0	20
Methyl-tert-butyl ether	ug/L	<4.8	200	200	212	201	106	100	80-120	5	20
Naphthalene	ug/L	<4.2	200	200	223	224	111	112	66-137	1	20
Toluene	ug/L	1600	200	200	1920	1880	162	139	67-156	2	20 M1
Xylene (Total)	ug/L	<12.5	600	600	711	709	116	116	71-162	0	20
a,a,a-Trifluorotoluene (S)	%						104	104	80-120		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: RINDT
Pace Project No.: 40130061

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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 at or above the adjusted LOD.

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RINDT
Pace Project No.: 40130061

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40130061001	MW-2R	WI MOD GRO	GCV/15877		
40130061002	MW-4	WI MOD GRO	GCV/15877		
40130061003	MW-9P	WI MOD GRO	GCV/15877		
40130061004	P-1	WI MOD GRO	GCV/15877		
40130061005	TRIP BLANK	WI MOD GRO	GCV/15877		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)



CHAIN OF CUSTODY

40130001

Company Name: Meridian Env Cstc
 Branch/Location:
 Project Contact: Ken Shimko
 Phone: 715-832-6608
 Project Number:
 Project Name: Print
 Project State: WI
 Sampled By (Print): Ken Shimko
 Sampled By (Sign): [Signature]
 PO #:
 Regulatory Program:

Preservation Codes

A=None	B=HCL	C=H2SO4	D=HNO3	E=DI Water	F=Methanol	G=NaOH
H=Sodium Bisulfate Solution			I=Sodium Thiosulfate		J=Other	

FILTERED?
(YES/NO)
PRESERVATION
(CODE)*

V/N	Pick Letter	Analysis Requested															
		X	P	V	L	T	W										

Quote #:
 Mail To Contact: Ken Shimko
 Mail To Company: Meridian Env Cstc
 Mail To Address: Fall Creek wpt
 Invoice To Contact: 56742
 Invoice To Company:
 Invoice To Address:
 Invoice To Phone:
 CLIENT COMMENTS:
 LAB COMMENTS:
 Profile #:

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Blota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
Sl = Sludge	WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	MW-2R	3/30		GW
002	MW-4			
003	MW-9P			
004	P-1			
005	① Trip Blank			

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:	Relinquished By: <u>[Signature]</u> Date/Time: <u>3/30/16 9a</u>	Received By: <u>Dunham</u> Date/Time: <u>3/30/16 9a</u>	PACE Project No. <u>40130001</u> Receipt Temp = <u>20 T</u> °C Sample Receipt pH OK / Adjusted Cooler Custody Seal Present (Not Present) Intact / Not Intact
	Relinquished By: <u>Dunham</u> Date/Time: <u>4-1-16 0735</u>	Received By: <u>Susek Tulpe</u> Date/Time: <u>4-1-16 0735</u>	
	Relinquished By: _____ Date/Time: _____	Received By: <u>Paal</u> Date/Time: _____	
	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	
	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	

Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302



Client Name: Meridian Env.
 Courier: Fed Ex UPS Client Pace Other: Autlan
 Tracking #: 1151563

Project #:

WO#: **40130061**



Custody Seal on Cooler/Box Present: yes no Seals intact: yes no
 Custody Seal on Samples Present: yes no Seals intact: yes no
 Packing Material: Bubble Wrap Bubble Bags None Other
 Thermometer Used: NA Type of Ice: Wet Dry None Samples on ice, cooling process has begun
 Cooler Temperature: Uncorr: ROT / Corr: Biological Tissue is Frozen: yes no
 Temp Blank Present: yes no

Person examining contents:
 Date: 4-1-16
 Initials: SW

Temp should be above freezing to 6°C for all sample except Biota.
 Frozen Biota Samples should be received ≤ 0°C.

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. <u>No Collect times.</u> 4-1-16 SW
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & 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.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" 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	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>No collect date on all samples. No MW in IDs</u> 4-1-16 SW
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: <u>NOA</u> , coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed Lab Std #/ID of preservative Date/Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15. <u>In shipment Lab added to COC.</u> 4-1-16 SW
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>357</u>		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: Original and copy of COC. 4-1-16 SW

Project Manager Review: [Signature] Date: 4-1-16



Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

June 22, 2016

Kenneth Shimko
Meridian Environmental Consulting, LLC
2711 North Elco Rd
Fall Creek, WI 54742

RE: Project: RINDT
Pace Project No.: 40133906

Dear Kenneth Shimko:

Enclosed are the analytical results for sample(s) received by the laboratory on June 16, 2016. 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,

Brian Basten
brian.basten@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: RINDT
Pace Project No.: 40133906

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
Virginia VELAP ID: 460263
North Dakota Certification #: R-150

South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Virginia VELAP Certification ID: 460263
Virginia VELAP ID: 460263
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

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SAMPLE SUMMARY

Project: RINDT
Pace Project No.: 40133906

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40133906001	MW-1	Water	06/14/16 00:00	06/16/16 07:30
40133906002	MW-2R	Water	06/14/16 00:00	06/16/16 07:30
40133906003	MW-4	Water	06/14/16 00:00	06/16/16 07:30
40133906004	MW-5	Water	06/14/16 00:00	06/16/16 07:30
40133906005	MW-6	Water	06/14/16 00:00	06/16/16 07:30
40133906006	MW-7	Water	06/14/16 00:00	06/16/16 07:30
40133906007	MW-7P	Water	06/14/16 00:00	06/16/16 07:30
40133906008	MW-8	Water	06/14/16 00:00	06/16/16 07:30
40133906009	MW-8P	Water	06/14/16 00:00	06/16/16 07:30
40133906010	MW-9	Water	06/14/16 00:00	06/16/16 07:30
40133906011	MW-9P	Water	06/14/16 00:00	06/16/16 07:30
40133906012	P-1	Water	06/14/16 00:00	06/16/16 07:30
40133906013	TRIP BLANK	Water	06/14/16 00:00	06/16/16 07:30

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SAMPLE ANALYTE COUNT

Project: RINDT
Pace Project No.: 40133906

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40133906001	MW-1	WI MOD GRO	PMS	9	PASI-G
40133906002	MW-2R	WI MOD GRO	PMS	9	PASI-G
40133906003	MW-4	WI MOD GRO	PMS	9	PASI-G
40133906004	MW-5	WI MOD GRO	PMS	9	PASI-G
40133906005	MW-6	WI MOD GRO	PMS	9	PASI-G
40133906006	MW-7	WI MOD GRO	PMS	9	PASI-G
40133906007	MW-7P	WI MOD GRO	PMS	9	PASI-G
40133906008	MW-8	WI MOD GRO	PMS	9	PASI-G
40133906009	MW-8P	WI MOD GRO	PMS	9	PASI-G
40133906010	MW-9	WI MOD GRO	PMS	9	PASI-G
40133906011	MW-9P	WI MOD GRO	PMS	9	PASI-G
40133906012	P-1	WI MOD GRO	PMS	9	PASI-G
40133906013	TRIP BLANK	WI MOD GRO	PMS	9	PASI-G

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PROJECT NARRATIVE

Project: RINDT
Pace Project No.: 40133906

Method: WI MOD GRO
Description: WIGRO GCV
Client: Meridian Environmental Consulting, LLC
Date: June 22, 2016

General Information:

13 samples were analyzed for WI MOD GRO. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times 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.

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:

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RINDT
Pace Project No.: 40133906

Sample: MW-1 Lab ID: 40133906001 Collected: 06/14/16 00:00 Received: 06/16/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	<0.40	ug/L	1.0	0.40	1		06/21/16 13:11	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		06/21/16 13:11	100-41-4	
Methyl-tert-butyl ether	3.7	ug/L	1.0	0.48	1		06/21/16 13:11	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		06/21/16 13:11	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		06/21/16 13:11	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/21/16 13:11	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/21/16 13:11	108-67-8	
Xylene (Total)	<1.2	ug/L	3.0	1.2	1		06/21/16 13:11	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		06/21/16 13:11	98-08-8	

Sample: MW-2R Lab ID: 40133906002 Collected: 06/14/16 00:00 Received: 06/16/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	96.7	ug/L	1.0	0.40	1		06/21/16 13:36	71-43-2	
Ethylbenzene	0.69J	ug/L	1.0	0.39	1		06/21/16 13:36	100-41-4	
Methyl-tert-butyl ether	1.0	ug/L	1.0	0.48	1		06/21/16 13:36	1634-04-4	
Naphthalene	0.69J	ug/L	1.0	0.42	1		06/21/16 13:36	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		06/21/16 13:36	108-88-3	
1,2,4-Trimethylbenzene	1.8	ug/L	1.0	0.42	1		06/21/16 13:36	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/21/16 13:36	108-67-8	
Xylene (Total)	2.2J	ug/L	3.0	1.2	1		06/21/16 13:36	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		06/21/16 13:36	98-08-8	

Sample: MW-4 Lab ID: 40133906003 Collected: 06/14/16 00:00 Received: 06/16/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	133	ug/L	1.0	0.40	1		06/21/16 14:02	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		06/21/16 14:02	100-41-4	
Methyl-tert-butyl ether	2.4	ug/L	1.0	0.48	1		06/21/16 14:02	1634-04-4	
Naphthalene	0.62J	ug/L	1.0	0.42	1		06/21/16 14:02	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		06/21/16 14:02	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/21/16 14:02	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/21/16 14:02	108-67-8	
Xylene (Total)	<1.2	ug/L	3.0	1.2	1		06/21/16 14:02	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		06/21/16 14:02	98-08-8	

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ANALYTICAL RESULTS

Project: RINDT
 Pace Project No.: 40133906

Sample: MW-5 Lab ID: 40133906004 Collected: 06/14/16 00:00 Received: 06/16/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	0.42J	ug/L	1.0	0.40	1		06/21/16 14:28	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		06/21/16 14:28	100-41-4	
Methyl-tert-butyl ether	5.4	ug/L	1.0	0.48	1		06/21/16 14:28	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		06/21/16 14:28	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		06/21/16 14:28	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/21/16 14:28	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/21/16 14:28	108-67-8	
Xylene (Total)	<1.2	ug/L	3.0	1.2	1		06/21/16 14:28	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		06/21/16 14:28	98-08-8	

Sample: MW-6 Lab ID: 40133906005 Collected: 06/14/16 00:00 Received: 06/16/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	3.3	ug/L	1.0	0.40	1		06/21/16 14:54	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		06/21/16 14:54	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		06/21/16 14:54	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		06/21/16 14:54	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		06/21/16 14:54	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/21/16 14:54	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/21/16 14:54	108-67-8	
Xylene (Total)	<1.2	ug/L	3.0	1.2	1		06/21/16 14:54	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		06/21/16 14:54	98-08-8	

Sample: MW-7 Lab ID: 40133906006 Collected: 06/14/16 00:00 Received: 06/16/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		06/21/16 15:19	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		06/21/16 15:19	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		06/21/16 15:19	1634-04-4	
Naphthalene	0.44J	ug/L	1.0	0.42	1		06/21/16 15:19	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		06/21/16 15:19	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/21/16 15:19	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/21/16 15:19	108-67-8	
Xylene (Total)	<1.2	ug/L	3.0	1.2	1		06/21/16 15:19	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		06/21/16 15:19	98-08-8	

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ANALYTICAL RESULTS

Project: RINDT
 Pace Project No.: 40133906

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-7P Lab ID: 40133906007 Collected: 06/14/16 00:00 Received: 06/16/16 07:30 Matrix: Water									
Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		06/21/16 15:45	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		06/21/16 15:45	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		06/21/16 15:45	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		06/21/16 15:45	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		06/21/16 15:45	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/21/16 15:45	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/21/16 15:45	108-67-8	
Xylene (Total)	<1.2	ug/L	3.0	1.2	1		06/21/16 15:45	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		06/21/16 15:45	98-08-8	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-8 Lab ID: 40133906008 Collected: 06/14/16 00:00 Received: 06/16/16 07:30 Matrix: Water									
Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		06/21/16 19:36	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		06/21/16 19:36	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		06/21/16 19:36	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		06/21/16 19:36	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		06/21/16 19:36	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/21/16 19:36	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/21/16 19:36	108-67-8	
Xylene (Total)	<1.2	ug/L	3.0	1.2	1		06/21/16 19:36	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		06/21/16 19:36	98-08-8	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-8P Lab ID: 40133906009 Collected: 06/14/16 00:00 Received: 06/16/16 07:30 Matrix: Water									
Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		06/21/16 20:02	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		06/21/16 20:02	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		06/21/16 20:02	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		06/21/16 20:02	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		06/21/16 20:02	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/21/16 20:02	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/21/16 20:02	108-67-8	
Xylene (Total)	<1.2	ug/L	3.0	1.2	1		06/21/16 20:02	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		06/21/16 20:02	98-08-8	

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ANALYTICAL RESULTS

Project: RINDT
 Pace Project No.: 40133906

Sample: MW-9 Lab ID: 40133906010 Collected: 06/14/16 00:00 Received: 06/16/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		06/21/16 20:28	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		06/21/16 20:28	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		06/21/16 20:28	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		06/21/16 20:28	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		06/21/16 20:28	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/21/16 20:28	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/21/16 20:28	108-67-8	
Xylene (Total)	<1.2	ug/L	3.0	1.2	1		06/21/16 20:28	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		06/21/16 20:28	98-08-8	

Sample: MW-9P Lab ID: 40133906011 Collected: 06/14/16 00:00 Received: 06/16/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		06/21/16 20:54	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		06/21/16 20:54	100-41-4	
Methyl-tert-butyl ether	83.3	ug/L	1.0	0.48	1		06/21/16 20:54	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		06/21/16 20:54	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		06/21/16 20:54	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/21/16 20:54	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/21/16 20:54	108-67-8	
Xylene (Total)	<1.2	ug/L	3.0	1.2	1		06/21/16 20:54	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		06/21/16 20:54	98-08-8	

Sample: P-1 Lab ID: 40133906012 Collected: 06/14/16 00:00 Received: 06/16/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	22.5	ug/L	1.0	0.40	1		06/21/16 12:45	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		06/21/16 12:45	100-41-4	
Methyl-tert-butyl ether	7.1	ug/L	1.0	0.48	1		06/21/16 12:45	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		06/21/16 12:45	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		06/21/16 12:45	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/21/16 12:45	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/21/16 12:45	108-67-8	
Xylene (Total)	<1.2	ug/L	3.0	1.2	1		06/21/16 12:45	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		06/21/16 12:45	98-08-8	

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ANALYTICAL RESULTS

Project: RINDT
 Pace Project No.: 40133906

Sample: TRIP BLANK Lab ID: 40133906013 Collected: 06/14/16 00:00 Received: 06/16/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		06/21/16 16:11	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		06/21/16 16:11	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		06/21/16 16:11	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		06/21/16 16:11	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		06/21/16 16:11	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/21/16 16:11	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/21/16 16:11	108-67-8	
Xylene (Total)	<1.2	ug/L	3.0	1.2	1		06/21/16 16:11	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1		06/21/16 16:11	98-08-8	

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QUALITY CONTROL DATA

Project: RINDT
Pace Project No.: 40133906

QC Batch: GCV/16169 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40133906001, 40133906002, 40133906003, 40133906004, 40133906005, 40133906006, 40133906007, 40133906008, 40133906009, 40133906010, 40133906011, 40133906012, 40133906013

METHOD BLANK: 1351246 Matrix: Water
Associated Lab Samples: 40133906001, 40133906002, 40133906003, 40133906004, 40133906005, 40133906006, 40133906007, 40133906008, 40133906009, 40133906010, 40133906011, 40133906012, 40133906013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.42	1.0	06/21/16 11:02	
1,3,5-Trimethylbenzene	ug/L	<0.42	1.0	06/21/16 11:02	
Benzene	ug/L	<0.40	1.0	06/21/16 11:02	
Ethylbenzene	ug/L	<0.39	1.0	06/21/16 11:02	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	06/21/16 11:02	
Naphthalene	ug/L	<0.42	1.0	06/21/16 11:02	
Toluene	ug/L	<0.39	1.0	06/21/16 11:02	
Xylene (Total)	ug/L	<1.2	3.0	06/21/16 11:02	
a,a,a-Trifluorotoluene (S)	%	101	80-120	06/21/16 11:02	

Parameter	Units	LABORATORY CONTROL SAMPLE & LCSD: 1351247		1351248		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec						
1,2,4-Trimethylbenzene	ug/L	20	21.2	20.9	106	105	80-120	1	20		
1,3,5-Trimethylbenzene	ug/L	20	21.2	20.8	106	104	80-120	2	20		
Benzene	ug/L	20	21.1	20.6	105	103	80-120	2	20		
Ethylbenzene	ug/L	20	21.2	20.7	106	104	80-120	2	20		
Methyl-tert-butyl ether	ug/L	20	21.5	21.1	107	106	80-120	2	20		
Naphthalene	ug/L	20	19.9	20.0	100	100	80-120	1	20		
Toluene	ug/L	20	20.8	20.4	104	102	80-120	2	20		
Xylene (Total)	ug/L	60	62.7	61.5	104	103	80-120	2	20		
a,a,a-Trifluorotoluene (S)	%				102	102	80-120				

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1352928		1352929		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40133906012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
1,2,4-Trimethylbenzene	ug/L	<0.42	20	20	17.8	18.4	89	92	48-177	3	20
1,3,5-Trimethylbenzene	ug/L	<0.42	20	20	20.0	20.6	100	103	73-145	3	20
Benzene	ug/L	22.5	20	20	44.1	44.0	108	108	74-139	0	20
Ethylbenzene	ug/L	<0.39	20	20	23.1	23.4	116	117	74-140	1	20
Methyl-tert-butyl ether	ug/L	7.1	20	20	29.2	28.6	110	108	80-120	2	20
Naphthalene	ug/L	<0.42	20	20	19.8	20.0	99	100	73-133	1	20
Toluene	ug/L	<0.39	20	20	23.3	23.6	117	118	80-128	1	20
Xylene (Total)	ug/L	<1.2	60	60	65.1	66.1	109	110	69-143	2	20
a,a,a-Trifluorotoluene (S)	%						101	100	80-120		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: RINDT
Pace Project No.: 40133906

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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 at or above the adjusted LOD.

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RINDT
Pace Project No.: 40133906

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40133906001	MW-1	WI MOD GRO	GCV/16169		
40133906002	MW-2R	WI MOD GRO	GCV/16169		
40133906003	MW-4	WI MOD GRO	GCV/16169		
40133906004	MW-5	WI MOD GRO	GCV/16169		
40133906005	MW-6	WI MOD GRO	GCV/16169		
40133906006	MW-7	WI MOD GRO	GCV/16169		
40133906007	MW-7P	WI MOD GRO	GCV/16169		
40133906008	MW-8	WI MOD GRO	GCV/16169		
40133906009	MW-8P	WI MOD GRO	GCV/16169		
40133906010	MW-9	WI MOD GRO	GCV/16169		
40133906011	MW-9P	WI MOD GRO	GCV/16169		
40133906012	P-1	WI MOD GRO	GCV/16169		
40133906013	TRIP BLANK	WI MOD GRO	GCV/16169		

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Sample Condition Upon Receipt

Pace Analytical
Client Name: Meridian

Project # **WO# : 40133906**



Courier: Fed Ex UPS - Client Pace Other: Dunham
Tracking #: 1180603

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags Nonspill Other

Thermometer Used no Ty e of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: R01 /Corr: Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

Person examining contents:
Date: 6-16-16
Initials: mm

		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 type="checkbox"/> Yes <input checked="" 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 & 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.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" 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	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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. <u>001-ED 1, no date and time on any sample labels. mm 6/16/16</u>
-Includes date/time/ID/Analysis Matrix:		
All containers needing preservat on have been checked. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH +ZnAct
All containers needing preservation are found to be in compliance ith EPA recommendat on. (HNO3, H2SO4 ≤2; NaOH+ZnAd ≥9, NaOH ≥12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: <u>VOA</u> coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lab Std #/ID of preservative
		Date/Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>357</u>		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____
Comments/ Resolution: Added to COC per lab trip blank mm 6/16/16

Project Manager Review: _____ Date: 6-16-16



Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

June 27, 2016

Kenneth Shimko
Meridian Environmental Consulting, LLC
2711 North Elco Rd
Fall Creek, WI 54742

RE: Project: Rindt
Pace Project No.: 10352275

Dear Kenneth Shimko:

Enclosed are the analytical results for sample(s) received by the laboratory on June 16, 2016. 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,

Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Rindt
Pace Project No.: 10352275

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
525 N 8th Street, Salina, KS 67401
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
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 #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
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
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
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
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: Rindt
Pace Project No.: 10352275

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10352275001	Pin 1	Air	06/14/16 02:10	06/16/16 09:45
10352275002	Pin 2	Air	06/14/16 02:21	06/16/16 09:45

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SAMPLE ANALYTE COUNT

Project: Rindt
Pace Project No.: 10352275

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10352275001	Pin 1	TO-15	MJL	8	PASI-M
10352275002	Pin 2	TO-15	MJL	8	PASI-M

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ANALYTICAL RESULTS

Project: Rindt
 Pace Project No.: 10352275

Sample: Pin 1 Lab ID: 10352275001 Collected: 06/14/16 02:10 Received: 06/16/16 09:45 Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	<0.20	ug/m3	0.52	0.20	1.61		06/26/16 20:39	71-43-2	
Ethylbenzene	<0.68	ug/m3	1.4	0.68	1.61		06/26/16 20:39	100-41-4	
Methyl-tert-butyl ether	<0.49	ug/m3	5.9	0.49	1.61		06/26/16 20:39	1634-04-4	
Toluene	0.94J	ug/m3	1.2	0.25	1.61		06/26/16 20:39	108-88-3	
1,2,4-Trimethylbenzene	8.3	ug/m3	1.6	0.20	1.61		06/26/16 20:39	95-63-6	
1,3,5-Trimethylbenzene	1.9	ug/m3	1.6	0.29	1.61		06/26/16 20:39	108-67-8	
m&p-Xylene	1.8J	ug/m3	2.8	1.3	1.61		06/26/16 20:39	179601-23-1	
o-Xylene	1.2J	ug/m3	1.4	0.57	1.61		06/26/16 20:39	95-47-6	

Sample: Pin 2 Lab ID: 10352275002 Collected: 06/14/16 02:21 Received: 06/16/16 09:45 Matrix: Air									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR Analytical Method: TO-15									
Benzene	<0.20	ug/m3	0.52	0.20	1.61		06/26/16 21:11	71-43-2	
Ethylbenzene	<0.68	ug/m3	1.4	0.68	1.61		06/26/16 21:11	100-41-4	
Methyl-tert-butyl ether	<0.49	ug/m3	5.9	0.49	1.61		06/26/16 21:11	1634-04-4	
Toluene	0.90J	ug/m3	1.2	0.25	1.61		06/26/16 21:11	108-88-3	
1,2,4-Trimethylbenzene	6.3	ug/m3	1.6	0.20	1.61		06/26/16 21:11	95-63-6	
1,3,5-Trimethylbenzene	1.3J	ug/m3	1.6	0.29	1.61		06/26/16 21:11	108-67-8	
m&p-Xylene	1.5J	ug/m3	2.8	1.3	1.61		06/26/16 21:11	179601-23-1	
o-Xylene	1.0J	ug/m3	1.4	0.57	1.61		06/26/16 21:11	95-47-6	

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QUALITY CONTROL DATA

Project: Rindt
 Pace Project No.: 10352275

QC Batch: AIR/26206 Analysis Method: TO-15
 QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
 Associated Lab Samples: 10352275001, 10352275002

METHOD BLANK: 2295916 Matrix: Air
 Associated Lab Samples: 10352275001, 10352275002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/m3	<0.12	1.0	06/26/16 13:11	
1,3,5-Trimethylbenzene	ug/m3	<0.18	1.0	06/26/16 13:11	
Benzene	ug/m3	<0.12	0.32	06/26/16 13:11	
Ethylbenzene	ug/m3	<0.42	0.88	06/26/16 13:11	
m&p-Xylene	ug/m3	<0.79	1.8	06/26/16 13:11	
Methyl-tert-butyl ether	ug/m3	<0.30	3.7	06/26/16 13:11	
o-Xylene	ug/m3	<0.35	0.88	06/26/16 13:11	
Toluene	ug/m3	<0.15	0.77	06/26/16 13:11	

LABORATORY CONTROL SAMPLE: 2295917

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/m3	50	57.7	115	57-143	
1,3,5-Trimethylbenzene	ug/m3	50	57.3	115	54-147	
Benzene	ug/m3	32.5	35.0	108	62-141	
Ethylbenzene	ug/m3	44.2	48.1	109	59-149	
m&p-Xylene	ug/m3	88.3	87.2	99	59-146	
Methyl-tert-butyl ether	ug/m3	91.6	92.4	101	64-135	
o-Xylene	ug/m3	44.2	46.3	105	54-149	
Toluene	ug/m3	38.3	30.2	79	61-138	

SAMPLE DUPLICATE: 2296007

Parameter	Units	60221632002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/m3	3.2	2.9	9	25	
1,3,5-Trimethylbenzene	ug/m3	ND	<0.27		25	
Benzene	ug/m3	0.93	0.85	9	25	
Ethylbenzene	ug/m3	1.1J	0.94J		25	
m&p-Xylene	ug/m3	4.0	3.6	11	25	
Methyl-tert-butyl ether	ug/m3	ND	<0.45		25	
o-Xylene	ug/m3	1.5	1.4	5	25	
Toluene	ug/m3	7.9	7.4	7	25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Rindt
Pace Project No.: 10352275

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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 at or above the adjusted LOD.

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.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Rindt
Pace Project No.: 10352275

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10352275001	Pin 1	TO-15	AIR/26206		
10352275002	Pin 2	TO-15	AIR/26206		

REPORT OF LABORATORY ANALYSIS

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10352275

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required Client Information:

Company: Mendota Env. Cs by
Address: 2711 N. Elwood
Fall Creek WI 54742
Email To: kshimko.mendotaenv.com
Phone: 7158326608 Fax: 7158326608
Requested Due Date/TAT: _____

Section B
Required Project Information:

Report To: ~~SATZ~~ Ken Shimko
Copy To: _____
Purchase Order No.: _____
Project Name: Rindt
Project Number: _____

Section C
Invoice Information:

Attention: Ken Shimko
Company Name: Mendota Env. Cs by LLC
Address: 2711 N. Elwood Fall Creek
Pace Quote Reference: 54742
Pace Project Manager/Sales Rep. _____
Pace Profile #: _____

25219

Page: 1 of 1

Program
 UST Superfund Emissions Clean Air Act
 Voluntary Clean Up Dry Clean RCRA Other _____
Location of Sampling by State WI
Reporting Units
ug/m³ mg/m³
PPBV _____ PPMV _____
Other _____
Report Level II. III. IV. Other _____

ITEM #	'Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Codes MEDIA CODE Tedlar Bag TB 1 Liter Summa Can 1LC 6 Liter Summa Can 6LC Low Volume Puff LVP High Volume Puff HVP Other PMA10	MEDIA CODE	PID Reading (Client only)	COLLECTED				Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method:							Pace Lab ID
					COMPOSITE START		COMPOSITE						TO-10 (P-CB)	TO-14 (P-H)	TO-15	TO-15 Short List*	PUBC <input checked="" type="checkbox"/>			
					DATE	TIME	DATE	TIME												
1	Pin 1		62		6/14	1:32	6/14	2:10	30	5	0051							X		
2	Pin 2		6L		6/14	1:44	6/14	2:21	29	6	0783							X		
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
<u>[Signature]</u>	<u>6/15/16</u>	<u>11 am</u>	<u>Fed Pt</u>	<u>6/15/16</u>	<u>11 am</u>	Y/N Y/N Y/N Y/N
			<u>[Signature]</u>	<u>6/16/16</u>	<u>9:45</u>	AMP Y/N Y/N Y/N Y/N

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Ken Shimko
SIGNATURE of SAMPLER: [Signature] DATE Signed (MM/DD/YY) 6/15/16

Temp in °C	Received on ice	Custody Sealed Cooler	Samples Intact
	Y/N	Y/N	Y/N

ORIGINAL

Air Sample Condition Upon Receipt

Client Name: Meridian Project #: _____

WO#: 10352275



Courier: Fed Ex UPS Speedee Client
 Commercial Pace Other: _____

Tracking Number: 6603750371541

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No
 Optional: Proj. Due Date: _____ Proj. Name: _____

Packing Material: Bubble Wrap Bubble Bags Foam None Tin Can Other: _____ Temp Blank rec: Yes No

Temp. (TO17 and TO13 samples only) (°C): AMBS Corrected Temp (°C): _____ Thermom. Used: B88A912167504 151401163
 B88A0143310098 151401164

Temp should be above freezing to 6°C Correction Factor: _____ Date & Initials of Person Examining Contents: MS w/ps/16
 Type of ice Received Blue Wet None

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 type="checkbox"/> Yes <input checked="" 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.
Media: <u>Air Can</u> Airbag Filter TDT Passive		11.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.

Samples Received:

Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID

CLIENT NOTIFICATION/RESOLUTION Field Data Required? Yes No
 Person Contacted: _____ Date/Time: _____
 Comments/Resolution: _____

Project Manager Review: Carolynne Trout Date: 6/16/16
 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)